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## CIMdata News

### ***CIMdata Announces Multi-Sponsor Research Study to help Accelerate the Development of the Global Enterprise Innovation Market***

05 August 2015

CIMdata, Inc., the leading global PLM consulting and research firm, announces the initiation of a multi-sponsor research project to create an Enterprise Innovation Management (EIM) Solutions guide to help accelerate the development of the global EIM market for the benefit of both solution providers and industry. Co-sponsors of the research effort are eZassi, Planview, Siemens PLM Software, and Sopheon.

The goal of the research is to address the existing concerns and typical questions—as well as preempt the emerging concerns—of industrial companies about implementing EIM by providing market education and motivating web events. Through a series of thought leadership interviews with solution provider peers, development of a whitepaper solutions primer on the EIM landscape, and webcast events, CIMdata will define and socialize a common framework of terminology, solution approaches, implementation challenges, and benefits. Through this effort it is expected that industrial companies will become more familiar with enterprise innovation enabling technologies and will feel more prepared to invest in the next generation of solutions that are designed to increase their ability to innovate more effectively and sustainably.

According to Dr. Suna Polat, CIMdata’s Director responsible for Collaborative Innovation and Social Product Development, “Industrial companies appear slower to invest in EIM than they should be for the competitive benefits that can be attained. This hesitancy to act is due largely to the confusion, uncertainty, and ambiguity from the substantial differences in terminology, solution approaches, strategies, best practices, and benefit claims they hear from a plethora of innovation management solution providers. This confusion has been further inflated by the lack of confidence in how industrial companies can best employ social media and other new collaborative innovation tools both internally in product development as well as externally with their supply chain and customers.”

To participate in this unique EIM research effort as a “thought leader” solution provider, or in one of our Industry Chief Innovation Officer interviews contact Dr. Suna Polat at [s.polat@cimdata.com](mailto:s.polat@cimdata.com)

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### ***FirstBuild’s Product Evangelist to make Presentation at CIMdata’s Workshop on Collaboration, Innovation, and Product Development***

04 August 2015

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces that Taylor Dawson, Product Evangelist at FirstBuild, GE’s incubator for the next generation of home appliances, will make a keynote presentation at CIMdata’s workshop on the New Age of Collaboration,

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Innovation, and Product Development. The workshop will take place in Louisville, Kentucky on October 7-8. In addition to Mr. Dawson's presentation, the workshop will feature presentations from Local Motors and BASF Corporation and will include a tour of the FirstBuild Microfactory.

Mr. Dawson's presentation, **Product Development in the Age of the Internet**, will show how a maturing internet has helped lower the barriers to engaging in on-line collaboration. This phenomenon has given rise to major movements in crowdsourcing and open sourcing. As GE's innovation incubator, FirstBuild has embraced transparency and openness in product innovation through a process known as "co-creation." By teaming both virtually and locally with inventors, hackers, and tinkerers, FirstBuild is developing the next generation of home appliances. This represents a novel and effective approach to solving the problems that are targeted by Lean Product Development.

The workshop will start during the afternoon of October 7 and will end on October 8. A personal tour of [First Build's Microfactory](#) followed by a networking dinner will be part of the first afternoon's highlights. Throughout the workshop real-world examples of how mature companies are inventing and adopting new collaborative partnership models for innovation and joint value creation will be shared.

For more information on the workshop visit <http://www.cimdata.com/en/education/knowledge-council-workshops/2015-spdc-workshop>.

## **About Taylor Dawson, Product Evangelist, FirstBuild**

Taylor Dawson has been developing products as an engineer, team leader, and marketer for 11 years. His passion for product has been established through four new product launches over the course of his career at both General Electric and Lexmark International. An advocate for the end consumer, Taylor practices and teaches the principles of Lean Startup in his professional work. He is currently the Product Evangelist at FirstBuild, GE's incubator for the next generation of home appliances. As Product Evangelist, Taylor is responsible for launching 8-12 new products per year, a pace and scale that defy the traditional model for new product development.

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## Acquisitions

### *Synopsys Completes Acquisition of Atrenta*

04 August 2015

Synopsys, Inc. has completed its acquisition of Atrenta, a provider of SoC realization solutions for the semiconductor and consumer electronics industries. Atrenta is a recognized leader in static and formal technologies, and the acquisition supports Synopsys' strategy to quickly and effectively deliver the advanced capabilities that will help semiconductor customers solve their toughest design and verification challenges.

Verification requirements have exploded as designs have become increasingly complex. Atrenta's early design analysis tools enable efficient, early verification and optimization of SoC designs at the RTL level. Combined with Synopsys' industry-leading verification technologies, Atrenta's leading static and formal technology further strengthens Synopsys' Verification Continuum™ platform and enables customers with this unique verification environment to meet the demands of today's complex electronic

designs. Atrenta's SoC design analysis technology also fortifies the Synopsys Galaxy™ platform with additional power, test and timing-related analysis technologies. By integrating Atrenta's complementary technology into Synopsys' platforms, Synopsys can offer designers a more comprehensive, robust portfolio of silicon to software solutions for today's complex electronic systems.

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## Company News

### ***AI MAXTools and Borgware GmbH Form Strategic Partnership***

03 August 2015

[AI MAXTools, Inc.](#) announced today a strategic partnership with [Borgware PLM GmbH](#). Under terms of the agreement, Borgware PLM GmbH will be the exclusive reseller of AI MAXTools in Germany, Austria, and Switzerland and will provide a localized version of the AI MAXTools product suite into German. Additionally, Borgware PLM GmbH will offer product expertise, training and support for all AI MAXTools products in the region.

AI MAXTools is a suite of add-in tools for PTC's Creo/Elements Direct (formerly CoCreate) that increases productivity and streamlines design methodology by providing higher design quality, shorter design cycles, and more accurate/complete models. The AI MAXTools productivity suite integrates seamlessly with Creo Elements/Direct and brings new and improved functionality to all users, including those that have not yet upgraded to the latest version of the software.

PTC Creo/Elements Direct software has seen widespread adoption in Germany, providing product design companies with 3D CAD modeling, integrated product data management (PDM) and collaboration software. AI MAXTools combined with the extremely popular PTC software allows users to increase productivity even further.

"This agreement with Borgware PLM GmbH will provide users in Europe a better opportunity to improve the functionality of their PTC software. The AI MAXTools suite saves time, increases productivity, and improves quality for engineering and design organizations," explained Andy Poulsen, president and Chief Technology Officer at AI MAXTools. "We're excited to be partnering with Borgware PLM GmbH to extend the functionality of their customers' current PTC software. AI MAXTools provides powerful, easy-to-use functionality that increases productivity—even on older versions of the PTC and CoCreate software."

According to Matthias Pfeifer, Managing Director at Borgware PLM GmbH, the AI MAXTools partnership opens additional opportunities to better serve their customers. "We are impressed with the AI MAXTools product suite and their reputation for increasing design productivity of Creo Elements/Direct users. We look forward to working together with AI MAXTools Inc. to provide even more superior software tools, services and expertise to our customers."

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### ***Autodesk Provides a Streamlined 3D Printing Experience for Windows 10***

04 August 2015

[Autodesk, Inc.](#) today announced that Spark, its open 3D printing platform, has been embedded into

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Windows 10.

To make 3D printing more accessible to Windows users worldwide, the [Spark](#) 3D printing platform will provide an optimized 3D printing experience directly within Windows 10. This helps streamline the additive manufacturing process from design to fabrication. Autodesk will also make the free\* Spark APIs available to the Microsoft developer community, further extending the reach and growth of the 3D printing industry.

“There’s a crucial need to align software and 3D printing hardware to support the needs of modern 3D printing for our global community of users and developers,” said Steve Guggenheimer, Corporate Vice President of Developer Platform & Evangelism and Chief Evangelist for Microsoft. “Teaming up with Autodesk will help fully unlock the capabilities of 3D printing, streamlining the end-to-end process.”

“Autodesk is dedicated to improving the 3D printing industry in a collaborative way, making the technology easier and more accessible to businesses and individuals alike,” said Samir Hanna, vice president and general manager, Consumer and 3D Printing, Autodesk. “By optimizing the Spark 3D printing platform for Windows 10, we are empowering both Windows users and Microsoft developers to tap the potential of additive manufacturing.”

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## ***EMA Adds Industry First Bi-directional Interface Between OrCAD and Arena PLM***

04 August 2015

EMA Design Automation® ([ema-eda.com](http://ema-eda.com)), a full-service provider of Electronic Design Automation (EDA) solutions, and Arena Solutions, the pioneer of [cloud-based Product Lifecycle Management \(PLM\)](#) applications, today announced that Cadence® OrCAD® PCB (printed circuit board) design tools and the Arena cloud-based PLM system are now more comprehensively integrated.

"This new software integration is a result of the strategic alliance we announced at the beginning of this year," said Manny Marcano, president and CEO of EMA. "Engineering teams will now have a direct link between their PCB design tools and their corporate PLM system, maintaining data integrity between the engineering work-in-process data and corporate product lifecycle data."

This new integration enables two-way communication between the two databases to ensure data integrity by eliminating manual processes. As a result, end-users can upload a BOM (bill of materials) directly into the Arena PLM system. An automatic upload directly from the OrCAD environment ensures that the BOM is correctly formatted and contains all required content, all without ever having to leave their native CAD environment or deal with any formatting or data translation issues. Conversely, the people managing the PLM system can be assured of the BOM's correct content and upload with no effort on their part. This ability not only reduces the time required to perform the task, but also reduces human error.

"Manual data manipulation is the source of many of our customers' design respins and time-to-market problems," said Steve Durrill, senior group director, custom IC and PCB group at Cadence. "By automating critical operations, we solve the human error problem and streamline the interface between engineering systems and PLM systems."

Other new capabilities stemming from this integration streamline component management. For instance, a commonly used function in PLM is "where-used," which performs a search to determine where a component is used across all products. This new integration provides the engineering team with the

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ability to find other projects or designs that use a specific part. This is particularly useful when a part becomes obsolete or fails at an abnormal rate.

Another potential source of problems stems from correctly and efficiently applying part numbers to temporary or new parts. OrCAD Component Information Portal (CIP) already provides an effective new part introduction process. This new integration works in conjunction with the Arena PLM system to allow authorized users to automatically assign the next available Arena part number to new parts, eliminating a previously manual and error prone process.

The prior integration brought engineering data from Arena's cloud PLM system to the OrCAD Component Information System (CIS) database and also enabled temporary part sourcing and creation within the two systems.

"We are releasing a great new capability to connect OrCAD and Arena PLM, which provides an 'easy button' to get engineering data into Arena PLM," said Steve Chalgren, executive vice president of product management and chief strategy officer at Arena. "As a result, our customers can get their products built far faster than they could before."

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## ***EMC considering to be bought by unit VMware***

06 August 2015

Data storage company EMC Corp is contemplating a deal under which it would be acquired by its unit VMware Inc, Re/code reported, citing sources briefed on the discussions.

Virtualization software maker VMware would issue new shares in exchange for EMC shares, along with cash raised from the issuance of new debt in a transaction known as a downstream merger, Re/code said. ([on.recode.net/1gacVvl](http://on.recode.net/1gacVvl))

Shares of EMC, which owns 80 percent of VMware, rose 3 percent to \$26.80 in heavy trading late on Wednesday. VMware's shares fell 4 percent to \$87.23.

VMware would issue between \$50-\$55 billion worth of new stock, of which about \$30 billion would be used to cancel EMC's stake in VMware, Re/code said.

The remaining shares would be issued to current EMC shareholders, who will also get some cash generated from the issuance of about \$10 billion in new debt, Re/code said.

A VMware spokesman said the company does not comment on rumor or speculation. EMC could not immediately be reached for comment.

EMC had a market capitalization of \$50.64 billion as of Tuesday's close. VMware has a market value of \$38.5 billion.

The deal is one of several options EMC's board is exploring as part of a strategic review of operations and as a partial response to pressure from an activist shareholder, Re/code said.

Activist investor Elliott Management Corp has been pressuring EMC to spin off VMware and in January agreed to refrain from agitating against EMC for eight months in exchange for adding two new independent directors to the company's board.

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## ***Ford Motor Company Wins the 2015 Altair Enlighten Award for Innovation in Automotive Vehicle Lightweighting***

04 August 2015

[Altair](#) together with the Center for Automotive Research (CAR) has announced [Ford Motor Company](#) as the winner of the 3<sup>rd</sup> annual [Altair Enlighten Award](#) for its use of various lightweight materials to minimize weight of the 2015 Ford F-150. The award was presented today during the 2015 CAR Management Briefing Seminars (MBS) in Traverse City, Mich. The Enlighten Award is the automotive industry's first award program created specifically to acknowledge innovation in vehicle weight reduction.

Ford's entry, one of 17 nominations that competed for the award, was selected as the winner for taking 700 pounds (318 kg) off of the Ford F-150 while improving its performance, safety, and efficiency. Ford engineers took a holistic approach to weight reduction by incorporating advanced materials into the entire design of the vehicle, including the frame, body, powertrain, battery and interior features such as the seats. The weight savings help the truck tow more, haul more, accelerate quicker and stop shorter, and it contributes to fuel efficiency.

High-strength, military-grade, aluminum alloys were used throughout the F-150 for the first time, saving approximately 400 pounds (181 kg) from the vehicle's body. Ford's engineering, research and manufacturing teams overcame the challenge of shifting from the traditional steel body to the advanced aluminum production. This is a noteworthy example of taking aluminum to a high volume application.

"As America's truck leader, Ford is honored to be named the 2015 Altair Enlighten Award winner for the all-new Ford F-150," said Raj Nair, Group Vice President, Global Product Development and Chief Technical Officer, Ford Motor Company. "This award is recognition of our outstanding team members, who set out to build the best truck ever for our customers."

Additionally, Ford increased use of high-strength steel from 23 percent to 78 percent. By doing so, it increased the stiffness of the frame while reducing the weight by as much as 60 pounds (27 kg). The 2015 F-150 established a new standard for full-size pickups by bringing together improved capability and efficiency, along with cutting-edge smart vehicle technology.

"We are happy to congratulate Ford for winning the 2015 Altair Enlighten Award," said Dave Mason, Vice President of Global Automotive at Altair. "It's encouraging to see Ford implementing a holistic lightweighting strategy, which resulted in impressive weight savings that were incredibly significant to the judging panel."

This year's first runner-up is General Motors, who developed and used innovative computer-aided engineering (CAE) methods to achieve a 163 pound (74 kg) weight reduction on the Alpha architecture of the 2012 Cadillac ATS/CTS. Immersive lattice topology optimization, strategic structural bulkhead placement, and multi-disciplinary loadcase optimization, were used, along with expert interpretation of the results, to lead the design of the architecture structure. The Alpha architecture delivers mass efficiency, stiffness, safety, structural feel, and has improved fuel economy without degrading on-road performance characteristics.

Second runner-up was awarded to Faurecia together with Automotive Performance Materials (APM). The NAFILean (Natural Fibers for Lean Injection Design) solution brought sustainable design to instrument panels, center consoles and door panels of the 2013 Peugeot 308 by integrating a natural,

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hemp-based fiber with polypropylene, which allows for complex shapes and architectures along with a weight savings of 20-25 percent.

"The Ford F-150, GM's Cadillac ATS/CTS, and the Faurecia/APM solutions are terrific examples of how this industry is working extremely hard to find cost-effective lightweight solutions," said judging chair Dr. Jay Baron, President and CEO of CAR and Director of CAR's Coalition for Automotive Lightweighting Materials. "The Enlighten Award showcases successful mass reduction through a wide variety of solutions demonstrated by all of the 2015 nominations, and the award helps to both educate and recognize the contributions by these great companies."

The Altair Enlighten Award is intended to honor the greatest achievements in weight savings each year; to inspire interest from industry, engineering, policymakers, educators, students and the public; to create further competition for new ideas in the industry; and to provide an incentive to share technological advance

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## ***Infor and Polaris Consulting & Services Limited Form Strategic Alliance***

03 August 2015

[Infor](#) today announced that Polaris Consulting & Services Limited has joined the [Infor Partner Network \(IPN\)](#) as an alliance partner. Polaris will provide IT implementation and support services to [Infor LN](#) customers across the manufacturing, retail, logistics, distribution, telco, aerospace & defense, and public sector industries.

With a dedicated Infor lab established in India, and experienced resources in Australia and New Zealand, Polaris will help customers improve process efficiency and streamline operations by leveraging the specific micro-vertical functionality and flexible deployment options offered by Infor.

"Combining Infor's innovations with Polaris' experience with upgrading and modernizing enterprise resource planning (ERP) systems, our alliance offers companies a best-of-breed solution to transform operations, improving performance and operating metrics," said Vikas Misra, Chief Client Officer of Enterprise Solutions at Polaris. "Through our partnership, we will enable customers to maximize the value of their Infor investment and position their companies for future success through the use of technology."

Infor LN is a comprehensive ERP solution designed to deliver everything complex product manufacturers require to manage each area of the business in one platform. Available in the cloud or on-premise, Infor LN provides industry-specific KPI dashboards, features for global process standardization and assembly line control functionality to help organizations improve efficiency and agility. With complete visibility into products and critical data throughout the value chain, Infor LN breaks down data silos to help decision-makers optimize resource use and enable more lean operations.

"Polaris has a large global presence and possesses in-depth industry experience across numerous focus areas for Infor, such as automotive, manufacturing and aerospace & defence," said Atul Sareen, Managing Director, Infor India. "We are delighted that Polaris has joined the IPN, as they have the ability to help Infor customers in India better align IT objectives with larger business goals."

The IPN is a global network designed to provide the tools and resources necessary to help partners grow a profitable and sustainable business around Infor products. To learn more about becoming an Infor partner, visit [www.infor.com/partners](http://www.infor.com/partners).

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## ***Newest Siemens Software & Technology Partner***

07 August 2015

Officials from **Machining Cloud** announce that it has joined the **Siemens Software Solution Partner Program as a Software and Technology Partner.**

As part of the partnership, Machining Cloud provides an excellent source for the 3D content necessary to quickly develop cutting tool assemblies, workholding, and fixture assembly models for Siemens PLM Software's Solid Edge software, a 3D CAD system for the mainstream market.

"Machining Cloud is excited to join Siemens PLM Software's partner community. The strength of our two organizations working together will deliver significant value to our customers," said Christophe Rogazy, cloud evangelist for the Machining Cloud.

"Siemens PLM Software is enthusiastic about the collaboration with Machining Cloud GmbH. Machining Cloud's manufacturing solutions will provide our mutual customers with unprecedented access to machining information and will allow them to better optimize and manage their processes," said Dan Staples, VP product development, Solid Edge, Siemens PLM Software.

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## Event News

### ***BobCAD-CAM To Showcase New CAD-CAM CNC Software Technology at WESTEC***

04 August 2015

**BobCAD-CAM, Inc.** announced today that the WESTEC manufacturing expo (September 15-17, 2015) would be the first tradeshow opportunity for business owners, designers, and programmers to see the new BobCAD-CAM Version 28 software series since it's July release.

"We're excited to bring the new V28 software to WESTEC this year," said Sean Owen, COO of BobCAD-CAM. "Not only did we make major upgrades to the core software, but we also launched a completely new CAD-CAM module with Mill Turn capabilities. This is a very significant addition to our product line as we can now offer a full CAD-CAM solution to nearly every type of machine shop."

The Latest in CNC Programming Will Be On Display

BobCAD-CAM will showcase all of the new CNC programming features available in V28, including:

- Faster Drawing Tools
- Smarter Hole Making Systems
- Better Surfacing Toolpaths
- More Tool Type Support
- Improved Simulation
- And More

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The company will also display their brand new Mill Turn module which supports CNC programming capabilities for the increasingly popular mill turn / multitasking machine configurations.

Demonstrations of the new software will offer full coverage of the core features which have been developed over the company's 30 year history, including the wide array of CAD design tools, the software's wizard driven interface, Dynamic Machining Strategies™, 2-5 axis high speed adaptive toolpaths, simulation, reporting tools, and much more.

BobCAD-CAM is offering live one-on-one demonstrations of the new Version 28 software and Mill Turn module all-day at the WESTEC Booth #1827 at the Los Angeles Convention Center in Los Angeles, California September 15-17. Interested parties are encouraged to call 877-262-2231 x123 today to schedule their one-on-one demo appointment.

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## ***CD-adapco Oil & Gas Webinar Demonstrates Economic Benefits of Using CFD in the Design and Operation of Offshore Vessels***

06 August 2015

CD-adapco announced today it is hosting an Oil & Gas industry webinar on September 3, 2015, titled, "Using CFD to Support the Design and Operation of Offshore Vessels." This webinar will highlight the application of CFD to evaluate various vessel dynamics, and feature a live demonstration of simulation software for the installation of subsea equipment.

Marine engineers involved in the design and operation of offshore vessels will find significant value in this CD-adapco webinar. Having an accurate understanding of vessel behavior is vital from an economic and safety point of view.

Presenters Harald Ottens of Heerema Marine Contractors, Alex Read of CD-adapco and Alex Graham of CD-adapco will highlight the application of CFD to evaluate current and wind loads on a semi-submersible crane vessel (SSCV); thruster efficiency; roll damping and wave-induced motions; moon pool behavior; and lowering dynamics (added mass and damping).

In addition, this CD-adapco online event will also feature a live demonstration of simulation software for the installation of subsea equipment.

Registration for the webinar can be found on the company website, <http://www.cd-adapco.com>.

CD-adapco is dedicated to finding and developing solutions for engineers in the oil and gas industry. In addition to this upcoming event, previously recorded oil and gas industry webinars "[CFD Simulation for Flow Assurance & Subsea Engineering](#)" and "[Analysis-Led Design in Subsea Engineering](#)" are indicative of the company's experience in and commitment to this sector.

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## ***Delcam to show new PowerMILL CAM at EMO in Milan***

04 August 2015

Delcam will demonstrate the 2016 version of its [PowerMILL](#) programming software for five-axis and high-speed machining on booth C05 in Hall 4 at the EMO exhibition to be held in Milan from 5<sup>th</sup> to 10<sup>th</sup> September.

The main enhancement in PowerMILL 2016 is the ability to mirror complete machining projects in one

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operation and to maintain automatically the machining characteristics, for example to choose automatically whether climb or conventional milling should be used. Previously, only individual toolpaths could be mirrored.

Automatic mirroring saves considerable time whenever right- and left-hand versions are needed of a part or tool. It will also be faster to program the machining of symmetrical objects since it will be possible to program one half and then mirror the toolpaths to complete the program.

To ensure that the mirroring has performed as expected, the new option can be used with the ability, introduced in PowerMILL 2015 R2, to undertake complete verification of a project for machine-tool issues such as collisions. Comprehensive verification can be performed, including ensuring that the machine tool is capable of running the mirrored toolpaths, as well as checking for both machine-tool collisions and tooling collisions.

PowerMILL 2015 R2 also saw the introduction of the ability to simulate machine-tool movements as tool changes are executed. The capability has been enhanced in the 2016 release by allowing more complex tool changes to be simulated, in particular those involving a carousel mechanism.

Other improvements to simulation in PowerMILL 2016 include a new form to print out the position of the cutting-tool tip during simulation, an auto-translucency option that will allow viewing of the table attach point at all times, and the ability to draw translucently the safe areas for rapid moves.

Development work has continued on the optional modules for PowerMILL as well as to the main program. In particular, a new, more efficient strategy to machine single blades has been developed for the Blades, Blisks & Impellers module, and a constant-Z machining option has been added to the module for programming the machining of ribs into tooling.

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## ***ESI hosts Near-Net Shape Processes and Light Weighting Event***

04 August 2015

ESI UK Ltd., a pioneer and world-leading provider in virtual prototyping, will bring together leading UK industry and academic experts at a free one day event, “Shaping the future of Near-Net and Light Weighting”, which will be held at the Manufacturing Technology Centre in Coventry on Tuesday 8th September 2015.

The field of Near-Net Shape (NNS) manufacturing encompasses a wide range of innovative techniques for the accelerated and sustainable production of parts. It is particularly suitable for the production of complex geometries, for customised production, and small batch sizes.

This event will explore how these new technologies can produce components that contribute to light weighting (or mass reduction) of road and rail vehicles, as well as ships and aircraft, reducing fuel consumption and thus also the carbon dioxide emissions.

Delegates attending this free event can expect to gain an insight into recent developments in Near-Net Shape process, and learn what processes are being developed and the results that can be achieved. Speakers will also explain the drivers for these developments, and explore the future for the field.

The one day event consists of a series of thirty minute presentations. Organisations providing speakers include:

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The MTC discussing the new National Centre for Net Shape and Additive Manufacturing; Castings Technology International on light weighting; BAE Systems on Additive Manufacturing; and ESI Group on simulation tool development.

Hannah Amiss, Global EMEA Marketing Specialist for ESI UK Ltd., commented “ESI is seeing first-hand the enormous benefits that Near-Net Shape processes are bringing to the manufacturing community. We are not only developing simulation tools to address this growing area, we are actively engaged in major European research projects such as AMAZE on Additive Manufacturing.

“Near-Net Shape processes not only make production more efficient, reducing time and waste cost, they are a key tool to achieving ever tightening targets. Targets such as light weighting for transportation OEMs and their supply chain. I’d recommend this event to anyone with an interest in making their production processes more efficient.”

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## ***Lectra's first apparel manufacturing seminar takes an in-depth look at the new rules of the changing fashion marketplace***

05 August 2015

Lectra recently hosted its first apparel manufacturing seminar in Bordeaux-Cestas (France).

The two-day event brought together close to 70 participants from different brands, retailers and manufacturers with experts and thought leaders from the fashion and apparel industry. Companies from 22 countries were in attendance, including businesses operating in the luxury and made-to-measure market, as well as mass manufacturers. The goal was to explore innovative ways to add value to their offer and share winning business strategies for today's rapidly changing fashion marketplace.

"The world of business is changing quickly and nowhere is this more true than in fashion," observed Daniel Harari, Lectra CEO. "Today's generation is more connected than ever, which has disrupted traditional business models and shifted the balance of power between brands, retailers and consumers. In order to remain competitive in this environment, companies have to completely rethink how they operate."

The importance of moving from competitive to cooperative business strategies was a recurring theme during the event. David Birnbaum, president of Hong Kong-based consulting firm Third Horizon, emphasized the benefits of collaborative partnerships between suppliers and their customers during his presentation on garment sourcing. "You can't compete with one another and still get ahead. Think of it as the difference between winning a race versus breaking a record. In the latter scenario, everybody wins."

This sentiment was echoed during a roundtable on the value of connecting brands, retailers and manufacturers, which featured panelists from British retail giant Marks & Spencer, Chinese made-to-measure manufacturer Red Collar and Sri Lankan exporter Omega Line. The discussion also touched on how today's empowered consumer is turning the traditional retail business model on its head. The panelists noted that instead of retailers suggesting to customers what they want, customers are now telling retailers what they want, which represents a huge shift-and a huge opportunity-in how business needs to be handled.

Representatives from El Salvador-based activewear manufacturer Textiles Opico and Sri Lankan high-end swimwear manufacturer MAS Linea Aqua spoke about the challenges and benefits they had

# CIMdata PLM Industry Summary

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experienced when implementing Lean across their business, advocating innovation and sustainability as keys to long-term success. "Innovation is what changes things. If you don't evolve, you will simply disappear. Technology has played a pivotal role in getting us to where we are today," said Juan Zigelboim, president of Textiles Opico. Both presenting businesses had embraced change and revisited their process to become best-in-class examples of companies using lean methodologies effectively in apparel manufacturing today.

"Our relationship with Lectra dates back 23 years. Since then, we have been able to improve productivity, save time and fabric, optimize our resources and deliver better-quality products. Other companies come to offer us their solutions, but we feel supported on a global level with Lectra; we see them as a long-term business partner," said Óscar Álvarez Hernández, Operations Director for Mexican high-end menswear company Industrias Haber's.

"We are here to accompany our customers in their journey towards change; this includes helping them find new ways to remain profitable and competitive. Manufacturing excellence is becoming a key focus because it allows companies to set themselves apart from their competition. At Lectra, our mission is to provide the vision, technologies and expertise to make that happen," concluded Daniel Harari.

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## ***NCL V10.1 To Be Exhibited At Westec 2015***

07 August 2015

NCCS, the developer of *NCL* multi-axis machining software, used extensively in the aerospace, automotive and turbo-machinery industries, will be participating in the Westec 2015 Exposition taking place September 15-17, 2015 at the Los Angeles Convention Center, Los Angeles, California. NCCS (booth #934) will showcase the latest version of their flagship product *NCL V10.1* as well as other state-of-the-art manufacturing solutions including *PostWorks*, an advanced multi-axis universal postprocessor and *NCL/IPV* which provides high performance, realistic, simultaneous material removal and CNC machine tool simulation.

New features added to *NCL V10.1* to help reduce programming time and increase tool path efficiency include the ability for the user to interactively define the interface for User-defined routines. This tool allows users to create their own machining features and add them into *NCL* as if they were built-in features of *NCL*. The look and feel and functionality of the new routine is all defined by the user.

*NCL V10.1* includes the ability to automatically determine the boundaries of a pocket and whether the pocket is open or closed. The tool path calculations will be adjusted to overlap the open boundaries of the pocket and stay within the walls of the pocket. Fillets between the floor and walls of the pocket are also respected.

The rotary axes setup in *PostWorks*, NCCS' Universal 10-axis post-processor, can now be defined to rotate about any given vector, allowing for the definition of more complex rotary table/head type machines in *PostWorks*. The definition of the table/head configuration can be setup using the MakePost interface for *PostWorks*, or dynamically using the powerful Macro capabilities built into *PostWorks*, thereby adding support for interchangeable heads on the machine tool.

*PostWorks* accepts centerline files from most every CAM system on the market today and with the latest release it can combine the input from different CAM systems and merge them into a single output Machine Control Data file, allowing users with multiple CAM systems to use the features strongest in their CAM systems to machine the different sections of a part and to merge them automatically within

## *PostWorks.*

Support for the TORRESDRILL (Stringer Drilling) custom multi-axis/multi-spindle machine used in the drilling of structural components has been added. This machine has separate milling and drilling heads, where the drilling head has two sets of linear axes along with two spindles and a separate clip holder axis (Q). This machine can also be simulated in the *NCL/IPV* Verification/Machine Simulation product from *NCL*.

These key new features of *NCL* and *PostWorks* will help companies get the most out of their software investment by increasing programming proficiency, in addition to improving the quality and accuracy of their NC programs.

"NCCS is dedicated to constantly improving our software technology, giving the end user what they want", says Don Schultz, President of NCCS. "The latest release of *NCL* is yet another example of the entrepreneurial spirit that has made the company successful."

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## ***Synopsys, UL to Reveal Details About Cybersecurity Assurance Program at CodenomiCON USA 2015***

03 August 2015

Synopsys, Inc. today announced that UL will present details about its Cybersecurity Assurance Program (CAP) at CodenomiCON USA, hosted by Synopsys at the House of Blues in Las Vegas, Nevada, on August 4. This presentation follows UL's [April announcement](#) of a collaboration between UL and CodenomiCON, a cybersecurity company [recently acquired by Synopsys](#). An invitation and registration is required to attend [CodenomiCON USA](#). Those not attending the event can learn more about the collaboration by visiting Synopsys at booth #652 or #664 during Black Hat USA2015.

UL's CAP, currently under development, will provide a baseline structure for cybersecurity assurance and will be customized for specific industry segments. The program will initially focus on medical devices and industrial control systems, with planned expansion into other vertical markets. UL's CAP is intended to help companies reduce software vulnerabilities and exploitable weaknesses, as well as increase security awareness.

Ken Modeste, the principal engineer at UL responsible for CAP, will share details about the program at the event. The presentation will provide an overview of CAP, which was created in response to increasing demand for third party software assessment in the market, and will cover the initial framework, scope and requirements of the program.

"UL customers have stated that they want a third-party, trusted, independent company like UL to support their cybersecurity testing needs," said Modeste. "The UL Cybersecurity Assurance Program is a first step in helping our customers focus on innovative ideas and technologies by providing a framework for assessing their products for cybersecurity vulnerabilities and software weaknesses. We are very excited about this program and look forward to our continued collaboration with Synopsys and others to drive this forward."

"As the Internet of Things continues to expand, and companies use software and connectivity to improve their products, it is paramount that the industry raises the bar for the quality and security of code," said Mike Ahmadi, director of critical systems security at Synopsys. "The cyber and physical worlds are colliding, and having a means to make informed risk decisions will allow stakeholders to maneuver

through the rapidly evolving threat landscape."

Synopsys entered the software quality and security market with its acquisition of Coverity in the spring of 2014. As an established leader in providing the global semiconductor industry with the tools and semiconductor IP needed to design the advanced chips found in today's electronics, Synopsys products represent more than 400 million lines of code. Synopsys was one of Coverity's first customers because it recognized early on the importance of software quality. With the recent acquisition of Codenomicon, Synopsys continues to grow its software quality and security solutions to help customers in industries such as energy, retail, financial services and health better address their ever-increasing quality and security needs.

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## Financial News

### ***3D Systems Reports Second Quarter and Six Months 2015 Financial Results***

06 August 2015

[3D Systems](#) Corporation announced today its financial results for the second quarter and first six months of 2015.

For the second quarter of 2015, the company reported revenue of \$170.5 million, an increase of 13% over the comparable quarter in 2014, or a 22% increase on a constant currency basis. The company reported a GAAP loss of \$0.12 per share and non-GAAP earnings of \$0.03 per share.

A challenging operating environment contributed to an overall decline in organic revenue of 5% compared with the second quarter of 2014. At constant currency rates, organic growth was 2% for the second quarter.

Strengthening demand for the company's products and services resulted in a 25% increase in revenue in EMEA, compared to the second quarter of 2014. Continued macroeconomic weaknesses in APAC compressed revenue by 9%. Moderate recovery in the Americas held revenue growth to 15%.

Overall, the company experienced sequential growth in its SLA, SLS and DMP 3D printers as industrial customers, including aerospace and healthcare, began to resume purchasing. MJP and CJP 3D printer units leveled off sequentially after several periods of progressive decline.

Gross profit margin remained flat at 47.9% compared to the second quarter of 2014. While gross profit margins from materials and services increased, an inventory write-off and higher than normal manufacturing variances attributable to consolidation of production facilities restricted total gross profit margin expansion.

For the second quarter of 2015, the company reported operating expenses of \$105.5 million, inclusive of \$25.7 million of R&D expenditures, resulting in a sequential cash operating expenses increase of 11% primarily from the integration of acquisitions. The company used \$6.4 million of cash in operations during the second quarter and had \$171.2 million of cash on hand at the end of June.

For the second quarter of 2015, the company reported a GAAP net loss of \$13.7 million, or a \$0.12 loss per share, and non-GAAP net income of \$3.1 million, or \$0.03 earnings per share.

For the first six months of 2015, revenue grew 11% to \$331.2 million, or a 19% increase on a constant currency basis, resulting in a GAAP loss of \$0.24 per share and non-GAAP earnings of \$0.07 per share.

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"We are disappointed with our overall results," said Avi Reichental, President and Chief Executive Officer, 3DS. "While a period of high growth enabled us to acquire strategic assets and build critical expertise, our rapid expansion permitted certain operating inefficiencies that we are currently addressing. Specifically, we are enhancing the quality of our products and services, accelerating synergy and cost reduction measures, driving process improvements and working closely with our channel partners to improve our sales operations and worldwide coverage."

## Recent Business Highlights

The company is focusing on leveraging its domain expertise in key verticals into new products and partnerships that it believes will drive incremental adoption, including:

- Expanded its presence and coverage in China through the acquisition of Easyway
- Broadened its partner network with the addition of Konica Minolta Australia, HK 3D in the United Kingdom, and MLC CAD Systems in the United States
- Entered into additional agreements with the Air Force Research Laboratory, Honeywell and the U.S. Navy, expanding the company's relevance in aerospace and defense research and development activities
- Expanded its CubePro™ 3D printer capabilities with Infinity™ rinse-away water soluble support material
- Extended its education coverage by entering new distribution agreements with Douglas Stewart EDU and Thermo Fisher Scientific and strengthened its K-12 offering by integrating STEAMtrax's curricula into its education kits

"While industry conditions may constrain growth rates in the near term, we believe our focus on quality, innovation, operational excellence and partner friendliness will enhance our customer attractiveness and deliver greater earnings power as industry growth resumes," concluded Reichental.

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## ***CENIT increases sales with its own software significantly, half-year result 2015 grows by 14%***

06 August 2015

In the first half of 2015, CENIT AG has continued its positive EBIT development. This rose by around 14% to EUR k 4,864. Equally pleasing is the significant increase by 25.5% in the sale of proprietary software. Compared to the same period last year, the Group generated consistent sales. The PLM segment recorded a slight increase by 0.4%, while in the EIM segment revenues fell by 5.5%.

During the first six months, CENIT group generated sales revenues of EUR k 59,183 (prior year: EUR k59, 700/-0.9%). Sales revenues in CENIT's consulting and services segment decreased by -5.8% to EUR k25, 368 (prior year: EUR k 26,926). Sales of third-party software sank by approx. -1.5% to EUR k 25,984(prior year: EUR k 26,367). Sales proceeds from CENIT's proprietary software increased from EUR k 6,141to EUR k 7,707 (25.5%).

The gross yield (operating output less cost of materials) amounted to EUR k 38,154 (prior year: EUR k36, 960), representing growth of 3.2%. CENIT achieved EBITDA of EUR k 5,904 (prior year: EUR k5, 481/7.7%) and EBIT of EUR k 4,864 (prior year: EUR k 4,264/14.1%). Results per share were EUR 0.43(prior year: EUR 0.36).

# CIMdata PLM Industry Summary

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## Orders Development

During the first six months, the group-wide order intake totaled EUR k 66,601 (prior year: EUR k 58,821). On 30 June 2015, orders in hand amounted to EUR k 39,216 (prior year: EUR k 33,022).

## Asset and Financial Situation

The enterprise has no liabilities in relation to credit institutions, either of a short-term or long term nature. On the balance-sheet date, equity capital totaled EUR k 35,869 (31 Dec. 2014: EUR k 39,352), accounting for an equity ratio of 54.4% (31 Dec. 2014: 58.8%). On the balance-sheet date, bank deposits and liquid assets totaled EUR k 33,999 (31 Dec. 2014: EUR k 33,250). The operative cash flow was EUR k 9,139 (prior year: EUR k 9,098).

## Employees

On 30 June 2015, CENIT group employed 629 staff (prior year: 671). group-wide personnel costs for the reporting period were EUR k 24.779 (prior year: EUR k 24.589). CENIT is currently training 49 young professionals in various vocations. The trainees include students from the Dual-Training University of Baden-Württemberg (DHBW) in the fields of informatics and economics, as well as trainees in the field of information technology.

## Outlook

For the current year, the CENIT Group targets sales growth by 3%. On the whole, CENIT is anticipating a rise of approximately 5% in earnings (EBIT), which will be contributed to by both business divisions.

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## ***Cognizant Boosts Forecast Again After Healthy Quarter***

05 August 2015

IT services provider Cognizant Technology Solutions Corp reported stronger-than-expected quarterly revenue and profit, as its business that serves the healthcare industry led the company's growth for the third quarter in a row.

Like its Indian rivals Tata Consultancy Services, and Infosys Ltd, New Jersey-based Cognizant gets the largest chunk of its revenue from financial services clients.

But its division that helps health insurers, drug companies, and other health-related businesses streamline their operations is its fastest-growing.

Cognizant said in May it expected healthcare to drive growth this year, helped by its \$2.7 billion acquisition of US healthcare IT services provider TriZetto Corp and the implementation of the US Affordable Care Act, or Obamacare.

Shares in Cognizant, which also raised its full-year revenue and adjusted profit forecasts for the second time this year, rose as much as 9.6 per cent on Wednesday.

Revenue from Cognizant's healthcare clients surged 39 per cent to \$897.3 million in the second quarter ended June 30, while revenue from its core financial clients rose 18.1 per cent to \$1.25 billion.

The company's healthcare business accounted for 29.1 per cent of revenue in the quarter, compared with 25.6 per cent in the same quarter of 2014.

An unprecedented wave of M&A activity among health insurers has created some uncertainty for Cognizant, however.

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On one hand, merged companies may need help to integrate their systems. On the other, there are fewer companies with which to do business.

Cognizant said on Wednesday it did not expect a 7-year deal it signed with health insurer Health Net Inc last year to be implemented after the company agreed to be bought by larger rival Centene Corp.

Chief executive Francisco D'Souza said it was unclear in the short term how other deals would affect his company.

Cognizant raised its forecast for full-year adjusted profit to at least \$3.00 per share from \$2.93 and its forecast for revenue to at least \$12.33 billion, from \$12.24 billion.

Analysts on average expected a profit \$2.97 per share and revenue of \$12.32 billion, according to Thomson Reuters. Revenue rose 22.6 per cent to \$3.09 billion. Excluding items, Cognizant earned 79 cents per share. Analysts on average had expected 73 cents per share and revenue of \$3.03 billion.

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## Implementation Investments

### *Antonov introduces system to control lifecycle of new aircraft models*

03 August 2015

Ukraine State enterprise Antonov (Kyiv) has introduced a modern product lifecycle management (PLM) system for new aircraft models based on Siemens PLM software, which uses the "without drawings" technology, which is based on 3D models, the press service of the company has reported.

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### *Carlisle Brake & Friction Selects Aras to Streamline Global Engineering and Advance ITAR Compliance*

04 August 2015

Aras today announced that Carlisle Brake & Friction, a leading provider for high performance and severe duty brake, clutch and transmission applications, has selected the Aras PLM platform to streamline and improve processes across the extended enterprise.

Working with Aras gold certified partner Razorleaf, Carlisle Brake & Friction selected Aras PLM for the platform's flexibility and extensive out-of-the-box best practice solutions. Integrating to Creo CAD and QAD ERP systems, Aras Innovator will unify Carlisle's ITAR compliance, engineering processes, parts management, BOM management, change management, and auditing at 11 manufacturing and purchasing facilities worldwide.

"We must comply with ITAR regulations concerning access to and export of certain parts with military uses," said Isaiah Kincaid, Senior Computer Electronics Engineer at Carlisle. "Aras PLM gives all our sites instant role-based security and ensures people can only select parts that fall within ITAR standards."

Having extensive experience with Microsoft products, Carlisle's IT staff was drawn to Aras Innovator's application framework, which is implemented on Microsoft .NET and SQL Server platforms. Aras Innovator was able to demonstrate much faster implementation times than competing PLM platforms.

# CIMdata PLM Industry Summary

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“Carlisle Brake & Friction has provided OEMs with advanced, high-performance products for over 60 years,” said Peter Schroer, CEO of Aras. “We are excited to serve as their backbone for global process improvement and product compliance.”

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## ***Dutch firm DSM selects Wipro to provide IT solutions***

04 August 2015

[DSM](#) - the Dutch science-based company active in health, nutrition and materials – on July 29, 2015 selected [Wipro](#) Limited - the Bangalore-based information technology, consulting, and business process services company - as its strategic IT partner to provide workplace services.

Wipro will bring next generation workplace technology features such as predictive analytics, automation, self-help, self-heal, [multi-channel support](#) and user experience management to DSM through this multi-year strategic partnership. This technology deployment will help DSM optimise costs, while providing users (ie DSM's employees) with an Internet-centric and sustainable workplace, with smart systems which will enable a seamless user experience. The smart systems include predictive monitoring for faster service restoration, automation and preventive self-heal to minimise service disruptions, and round-the-clock support to enable stable operations. The green IT features of the project will improve the sustainability of this initiative.

Wipro has deployed its proprietary LiveWorkplace solution for this engagement. The solution enables a great computing experience for users, while ensuring data security - in line with DSM corporate requirements for information security - and enabling access to applications - anywhere, anytime and on a device of their choice.

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## ***HomeKoncept Choses ZWCAD+***

07 August 2015

[ZWCAD Design](#) announced that its flagship product ZWCAD+ has been chosen by HomeKoncept, a Poland company which specializes in house projects. By adopting ZWCAD+ to their current projects, ZWCAD+ will help to further improve the company’s design efficiency and productivity.

HomeKoncept, with extensive experience in architecture, offers ready-made designs of modern houses for people looking for original solutions and innovative ideas. HomeKoncept strives to make projects of houses which are universal and timeless and make their original designs houses which meet the expectations of even the most demanding investors.

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## ***MUSTO Chooses Centric 8 Product Lifecycle Management***

04 August 2015

MUSTO, the world’s No.1 offshore sailing brand, has selected Centric Software to provide its first [product lifecycle management \(PLM\)](#) platform.

Founded in Britain in 1964, MUSTO creates technical clothing, luggage and accessories that CEO Peter Smith collectively refers to as “ocean-engineered.” After close to five decades outfitting professional

# CIMdata PLM Industry Summary

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sailing teams, Smith explains, MUSTO recognized the need to more closely manage its product development process and to safeguard uncompromising, brand-critical standards of performance and quality.

Speaking about his company's decision to adopt the Centric 8 [PLM platform](#), Smith says that "the standards of our products are essential to our brand, and we are thrilled to be working with people as passionate as we are about protecting that reputation."

Passion is something not in short supply at MUSTO; founder Keith Musto and his wife began the company by hand-making purely technical clothing in Essex, United Kingdom. Today, with form and function road-tested in some of the most extreme environments on earth, MUSTO's growing customer base demands new products that marry contemporary style with that signature sense of adventure.

"MUSTO is all about creating the most innovative products in the world, made to last a lifetime," Smith says, adding that "choosing the right PLM solution from the right vendor is essential to laying the foundations for expanding into new markets and improving margins, but, even more critical, to ensuring that product remains the hero."

In its search for the ideal PLM partner, MUSTO established clear criteria: better critical path handling; lean product design and development processes; intelligent costing; and effective materials management.

Smith refers to MUSTO's selection of PLM as "our most significant IT project in a decade." Centric 8 PLM stood out for several reasons.

Centric 8 PLM will deliver results in the immediate term, as well as being scalable for the future, he says. In addition, Centric's strong functionality, performance apparel experience, regional expertise and international reach elevated the Silicon Valley-based PLM provider to the status of preferred supplier.

"We conducted our own reference searches," continues Smith. "Each confirmed what we had already heard: Centric offers the best price-to-value ratio."

For MUSTO, a protracted implementation project was out of the question. These references confirmed Centric's ability to deliver implementations on time and to budget.

MUSTO intends to leverage further Centric 8 PLM functionality – catalog management and quality control – to support its expansion plans throughout the United Kingdom, the rest of Europe and beyond.

Drawing on a pool of local and global Centric talent that Smith calls "excellent," MUSTO and Centric Software will work together to fuse performance fabrics, modern technologies, proven processes, and timeless traditions for new and existing markets.

"I'm delighted to call MUSTO a partner, as we share a culture of passion for our products and customers," adds Chris Groves, president and CEO of Centric. "We really look forward to innovating together with MUSTO."

MUSTO (<http://www.musto.com>)

As the world's leading offshore sailing brand, MUSTO continually pushes the boundaries of design and innovation to create technical performance clothing that provide athletes across multiple disciplines ocean-engineered protection for all weather conditions.

Founded in 1964 by British Olympic sailing medalist Keith Musto OBE (Order of the British Empire), the company uses its 50 years of innovation heritage to combine technical fabrication with design to ensure that wearers can continuously deliver peak performance no matter what conditions they face during their chosen sport and lifestyle.

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Today, MUSTO is official suppliers to the world's toughest offshore sailing competitions – the Volvo Ocean Race, Vende Globe, Route Du Rhum, Transat Jacques Vabre, Rolex Fastnet Race, Rolex Sydney Hobart Yacht Race, Tour De France a la Voile – ensuring that products are rigorously tested by athletes in the most demanding climates on earth.

MUSTO matches this rigorous performance testing in the country range with Olympians Zara Phillips OBE and William Fox-Pitt designing and trialing products alongside scientists from Great Britain's Game and Wildlife Conservation Trust.

Confirming MUSTO's position of technical excellence, the company is proud to hold two Royal Warrants of Appointment in the United Kingdom as suppliers of outdoor clothing to both Her Majesty The Queen and His Royal Highness The Duke of Edinburgh. MUSTO was granted the Royal Warrants on Jan. 1, 2008, having supplied goods to the Royal Household for more than five years.

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## ***Realtek Accelerates System-on-Chip Verification with Cadence Palladium XP Platform***

05 August 2015

Cadence Design Systems, Inc. today announced that Realtek Semiconductor Corp. utilized the Cadence Palladium XP platform to [accelerate](#) the successful development and verification of a recent system-on-chip (SoC) design. With the Palladium XP platform, Realtek achieved up to 250X faster acceleration versus its previous methodology and was able to improve quality by executing system simulations six months before the silicon was available.

Due to the integrated nature of the Cadence System Development Suite, Realtek was able to save time by reusing over 90 percent of its simulation environment setup for Cadence Incisive Enterprise Simulator on the Palladium XP platform, along with its previous emulation environment. Additionally, the power analysis capability of the Palladium XP platform, along with the ability to test [software](#) loads on the emulated system before silicon was available, allowed Realtek to optimize system-level power prior to silicon availability to within five percent of the SoC's actual power measurements in-silicon.

"Our customers demand exceptional product quality," said Realtek [Vice President](#) and Spokesman, Yee-Wei Huang. "Leveraging the combination of the Cadence Incisive and Palladium verification platforms in the System Development Suite significantly improved our verification productivity and ultimately led to increased product quality."

The Palladium XP platform, which is part of the Cadence [System Development](#) Suite, is a high-performance, special-purpose verification computing platform that unifies best-in-class simulation acceleration and emulation capabilities in a single environment. For more information on the Palladium XP platform, visit <http://www.cadence.com/news/pxp>.

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## Product News

### *Autodesk Launches Stingray Game Engine at GDC Europe 2015*

03 August 2015

At the Game Developers Conference (GDC) Europe 2015, Autodesk announced that its new Stingray game engine will be available to game developers worldwide beginning August 19, 2015. Later this summer, Autodesk will also offer Autodesk Maya LT Desktop Subscription customers access to Autodesk Stingray as part of their subscription.

Built on the powerful, data-driven architecture of the Bitsquid engine, which Autodesk acquired in 2014, Stingray is a comprehensive new platform for making 3D games. The engine supports a host of industry-standard game development workflows and includes powerful connectivity to Autodesk 3D animation software that simplifies game development across a wide range of platforms.

“Between Augmented Reality, Virtual Reality and the proliferation of mobile platforms, the games industry is undergoing a major transition, which poses new complexities for both AAA and indie game developers. Autodesk developed Stingray with these challenges in mind, and we’re excited to share its debut with the game developer community,” said Autodesk senior vice president, Media & Entertainment, Chris Bradshaw. “Stingray makes it easy and intuitive for artists with varying skill sets and programming expertise to create the next generation of 3D blockbuster games, entertainment and even architecture.”

Stingray feature highlights include:

Autodesk previewed Stingray at GDC 2015 earlier this year in San Francisco. Since then, game developers around the world have signed up for Autodesk’s beta program, shipped games using this technology and provided the feedback including:

“Stingray’s data-driven architecture and flexibility have helped us build a broad portfolio of games, and quick iteration times for both code and content creators has boosted our productivity significantly. The engine has been a key success factor for us because we’re able to produce high quality games in a shortened timeframe. We’re excited to see how Autodesk will continue to evolve the engine,” shared Martin Wahlund, CEO of Fatshark.

“We never know what kind of games we're going to create, and the engine is good for that. It really allows us to just make anything. We can make an FPS or an RTS, or a top-down shooter, or a role-playing game, or whatever. It's not tied to a specific genre,” explained Johan Pilestedt, CEO, Arrowhead Game Studios.

The Stingray engine can also be used in design environments and is an informative next step to further understand design data before anything is physically built. The engine’s real-time digital environment, on a powerful, data-driven architecture, is programmed to look and feel like the physical world. Through the high-end development tools and visual scripting system, customers can program objects, light effects, environmental elements, materials, and entourage elements to behave and react as they would in the physical world.

Connected to Autodesk 3ds Max, architecture, engineering and construction customers can import Autodesk Revit data into 3ds Max, add content to the 3ds Max scene and then place that scene in the Stingray engine to explore, animate, and interact in the designed space.

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## ***Infor Delivers Enhanced Version of Infor CloudSuite Aerospace & Defense***

03 August 2015

[Infor](#) today announced Infor CloudSuite™ Aerospace & Defense (A&D) version 11.1, which offers industry customers expanded access to applications within the cloud environment. The latest version of Infor CloudSuite A&D expands upon [Infor's offerings available on Amazon Web Services \(AWS\)](#), combining beautiful software with rich industry functionality. Infor CloudSuite™ A&D version 11.1 continues to support Infor's commitment to delivering specialized micro-vertical applications that are able to meet the demands of the aerospace and defense industry.

The latest release of Infor CloudSuite A&D version 11.1 underscores Infor's commitment to the aerospace and defense industry. This enhanced version of Infor CloudSuite A&D, including upgrades to the user interface using HTML5, supports the extra mile capabilities of the aerospace and defense micro-vertical in the following functional business process areas;

- project manufacturing
- contracts and billing
- governance, risks and compliance (GRC)
- enhanced business analytics dashboards and
- Integrated document management.

Optional add-on components such as Supplier Exchange, Enterprise Asset Management (EAM), Infor Dynamic Enterprise Performance Management (d/EPM) and Configure Price Quote (CPQ) are now available.

The release of Infor CloudSuite A&D provides Infor customers with a greater range of access when utilizing core industry applications. The upgrade also offers customers access to industry specific analytics, and utilizes [Infor ION®](#), a purpose-built middleware and social collaboration engine [Infor Ming.le™](#), which facilitates internal and external communications between customers and their suppliers. Infor CloudSuite A&D version 11.1 uses [Infor LN](#), a core integrated ERP system, for an enhanced look and feel. This upgrade also uses [Infor Approva](#) for improved usage monitoring and process monitoring. These enhancements support companies of all sizes, from one location to multi-national, by allowing users to view real-time data at any time and from any location.

With Infor CloudSuite A&D version 11.1, customers experience a faster return on investment (ROI) and a reduced total cost of ownership (TCO), as cloud delivery with AWS is managed through a monthly subscription. By implementing these solutions in the cloud as opposed to on-premise, there is no need to purchase additional onsite servers and hardware, Infor CloudSuite A&D version 11.1 is more like an operating expense rather than a capital expense.

"Aerospace and defense manufacturers are consistently looking for new ways to reduce overhead and

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cut costs while having the agility and speed to respond to ever changing business conditions," said Edward Talerico, industry director, Aerospace & Defense, Infor. "Infor CloudSuite A&D version 11.1 gives our customers more options and keeps their systems up-to-date with the latest technologies. This update will allow customers to further grow their businesses, maximize their IT budgets, and increase overall satisfaction."

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## ***New Trinseo Material Grades Included in Digimat Enable Automotive Engineers to Meet Lightweighting Challenges***

05 August 2015

[MSC Software Corporation](#) today announced that a new version of [Digimat](#), the leading nonlinear multi-scale material and structural modelling platform from [e-Xstream engineering](#), an [MSC Software Company](#), features added grades from Trinseo (former Styron), a global materials company and manufacturer of plastics, latex and rubber. The material modelling data stored in the database helps engineers investigate and predict the behavior of composite materials. These are used, for example, to replace metal parts. Digimat now offers data on Trinseo grades PULSE™ 630GF, PULSE™ 979, VELVEX™ 5250 and the ENLITE™ PP LGF 6002 and ENLITE™ ABS Alloy LGF 6001 structural polymers.

“Digimat enables engineers to accurately predict mechanical behavior of parts made of our fibre filled thermoplastics as it takes the anisotropy due to the fibre orientation and the fibre length distribution into account. Therefore we have decided to characterise our fibre filled thermo plastics and make them available in the [Digimat-MX](#) database. Besides our short glass filled PULSE™ PC/ABS grades and our reinforced elastomeric resin VELVEX™, we have also added our recently launched ENLITE™ structural polymers. The latter are long glass fibre filled PP and ABS concentrates which can be diluted to a wide range of glass level in the end product. Especially when it comes to saving weight in modern vehicles, these materials play a key role in the replacement of metals,” said Gerhard Slik, Sr. Development Specialist, Application Engineering and Design Centre, Trinseo.

Due to the inherent relationship between vehicle mass and its fuel consumption, weight reduction of cars is a key area to address in order to meet the efficiency requirements. To overcome these challenges, design engineers need to have quick access to material information regarding performance at various strain rates, temperatures, and other key property measurements.

“[Digimat-MX](#) now contains information on Trinseo grades to address engineering and end-user composite modelling needs while minimizing component weight, cost, and time-to-market,” said Guillaume Boisot, Business Development Manager, e-Xstream engineering.

## ***Simparel Expands Solutions Footprint with Next-Gen Real-Time Shop Floor Control***

03 August 2015

Simparel, Inc. is expanding its already product suite with the launch of the all new Simparel® SFC real-time Shop Floor Control (SFC) solution. A state of the art twist on the decades-old SFC tools generally available in the market, the new system leverages wireless technology and off-the-shelf mobile devices to collect production data immediately as it occurs and help manufacturers better track and manage orders, productivity, incentive payroll, machine downtime and other vital processes and information.

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By reducing overall cost of ownership and making SFC simpler to use and deploy, Simparel SFC will empower companies with the real-time visibility and control they need to increase competitiveness and profitability.

According to Simparel Chief Operating Officer Roberto Mangual, “Without up to date information and visibility, today’s manufacturers are challenged to deliver the speed, transparency and service their customers demand. By simplifying system use and removing significant cost and setup barriers inherent with legacy SFC systems, we are making real-time shop floor management much more accessible and affordable. With Simparel SFC, everyone from small contractors to major brands can leverage the latest technologies to quickly achieve the many benefits of real-time visibility and control.”

Key among the business benefits of real-time shop floor control are increased worker productivity, reduced throughput time, improved off-standard cost control, excess cost savings, work in process inventory reduction, and enhanced customer service.

The new Simparel SFC solution leverages plug-in data collection technology powered by Georgia-based Shopfloor Support LLC. The system utilizes an innovative Android® app and Wi-Fi networking tools to collect production data and provide real-time feedback to workers and managers. This information can be integrated with Simparel ERP, as well as third-party engineering, payroll and other software systems to share, report and analyze performance.

“We are excited about the opportunities this innovative solution brings to both our clients and our business,” added Steve G. Vogel, Simparel Chief Executive Officer. “With so many companies taking a more hands-on approach to manufacturing, we saw an opportunity to drive even greater efficiency, quality and flexibility by adopting Internet of Things (IoT) connectivity for the entire plant floor and supply chain. We are already experiencing strong interest from new and existing customers.”

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## **ZWCAD Design announces the release of ZWCAD+ 2015 SP3**

06 August 2015

ZWCAD Design today announced the release of ZWCAD+ 2015 SP3, another updated version to its flagship product in 2015 featuring with new feature like 3D Clip and many other enhancements and fixed bugs. The availability of new ZWCAD+ 2015 SP3 will largely speed up the design process as well as guarantee design stability.

### **Adjust 3D Clipping Panels in 3D Mode**

CAD design is not all about dealing with regular shapes, sometimes designing a shape that you can't get from current shapes is very necessary, so 3D clip is here to solve the problem. By opening the "Adjust Clipping Planes" window and starts an interactive 3D mode. Users can see the clipping effect in current drawing area when they simulate front and back clippings for 3D solids in 3D space which diversify you design and expands the boundary of it.

### **Text in table display with right size**

Improvements have also been made for table which guarantees the stability of the performance, When open drawing with table, the text in the table used to display is disorder which was quite annoying. However ZWCAD+ 2015 SP3 optimizes the performance of copy/zoom with text in table and text in table would display with right size.

### **Copy & paste the proxy entities**

With the availability of ZWCAD+ 2015 SP3, users can copy/paste the proxy entities, which is not

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allowed in the former version of ZWCAD+. By realizing this, copying entities from other CAD program will also work in ZWCAD+ which push the design to a higher level, but make sure when you copy and paste the proxy entities, the system may rewrite the proxy entities' data.

Improvements and enhancements of ZWCAD+ 2015 SP3 are not limited to these. To try this newest product, users can download it from here. For any detailed product feature information, users can visit ZWCAD+ homepage or follow its official Facebook.

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