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## CIMdata News

### ***General Motors' Dr. Ulrike Warnecke to Present at CIMdata's PLM Road Map for the Global Automotive Industry***

15 October 2015

CIMdata, Inc., the leading global PLM strategic management consulting and research firm is pleased to announce that Dr. Ulrike Warnecke, Engineering Group Manager for Systems Development & CAx Support, GM Vehicle Engineering Europe (Adam Opel), will make a presentation at PLM Road Map™ for the Global Automotive Industry. This one-day event focused on the global automotive industry will be held on 24 November at the Sofitel Bayerpost, Munich, Germany.

Systems engineering, simulation and analysis, and other disciplines responsible for ideation, product conceptualization and realization, production, and support are starting to realize that multi-disciplinary lifecycle optimization is a requirement. To accomplish this, many are turning to model-based engineering techniques and technologies to ensure that the impact of change is fully understood across all functional disciplines throughout the product's lifecycle. In her presentation, Model-Based Systems Engineering and Product Lifecycle Management, Dr. Warnecke will describe how General Motors is evolving its thinking and enabling true end-to-end modeling and simulation as a core element of its product innovation platform.

Dr. Warnecke joined Opel in 2002 as a CAE engineer. Before assuming her current role, she was Engineering Group Manager for Virtual Design Integration & Systems Engineering / PLM. Dr. Warnecke holds a master's degree in Mechanical Engineering from the University of Hannover, Germany, and also received her doctorate in Mechanical Engineering from the same university.

PLM Road Map 2015 for the Global Automotive Industry is the must-attend event for automotive industry executives (OEMs and suppliers) and PLM practitioners—providing independent education and a collaborative networking environment where ideas, trends, experiences, and relationships critical to the automotive industry germinate and take root. The theme for this year's event is "Automotive's High Tech Revolution."

For more information, visit: <http://www.cimdata.com/en/education/plm-conferences/2015-plmrm-auto>

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## ***Key Sponsors of PLM Road Map for the Aerospace & Defense Industry featuring 3D CIC Announced***

13 October 2015

CIMdata, Inc., the leading global PLM strategic management consulting and research firm and Longview Advisors, Inc., organizer of 3D CIC, have today announced the key sponsors for the upcoming PLM Road Map for the Aerospace & Defense Industry featuring 3D CIC conference. The participating sponsors are 3D PDF Consortium, Aras Corp., Anark, Autodesk, Dassault Systèmes, ITI, Kisters, Siemens PLM Software, Tata Consultancy Services, and Theorem Solutions. The event, which takes place on November 28 and 29 at the Westfields Marriott - Dulles, is a strategic conference that focuses on how companies successfully define and employ PLM strategies and enabling solutions to meet challenging product development, manufacturing, and deployment issues.

“We are honored to have these leaders in PLM solutions and services choose to sponsor PLM Road Map for the Aerospace & Defense Industry featuring 3D CIC,” commented Andrew Rodger, Senior Business Development Manager with responsibility for CIMdata’s Global PLM Community. “The mission we have for this event is to create a platform where open collaboration and knowledge transfer can occur between all participants in the PLM ecosystem including industrial representatives, subject matter experts, software providers, educators, consulting services organizations, market analysts, system integrators, and industrial research institutions. We are all equal partners in realizing the vision and value of PLM, especially as it helps to create a new, more sustainable, circular global economy.”

As part of the PLM Road Map experience a virtual PLM Collaboration Café which provides each sponsor the opportunity to showcase a selection of their aerospace and defense industry solutions is available on the CIMdata web site at: <http://www.cimdata.com/en/education/plm-conferences/2015-plmrm-ad-cic/2015-plmrm-ad-cic-sponsors>

For more information on PLM Road Map visit <http://www.cimdata.com/en/education/plm-conferences/2015-plmrm-ad-cic>

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## Acquisitions

### ***Michael S. Dell, MSD Partners and Silver Lake Lead Transaction to Combine Dell and EMC***

12 October 2015

Dell Inc. and EMC Corporation today announced they have signed a definitive agreement under which Dell, together with its owners, Michael S. Dell, founder, chairman and chief executive officer of Dell, MSD Partners and Silver Lake, the global leader in technology investing, will acquire EMC Corporation, while maintaining VMware as a publicly-traded company.

Under the terms of the agreement, EMC shareholders will receive \$24.05 per share in cash in addition to tracking stock linked to a portion of EMC’s economic interest in the VMware business. Based on the estimated number of EMC shares outstanding at the close of the transaction, EMC shareholders are expected to receive approximately 0.111 shares of new tracking stock for each EMC share. Assuming, for illustrative purposes, a valuation for each share of tracking stock of \$81.78, the intraday volume-

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weighted average price for VMware on Wednesday, October 7, 2015, EMC shareholders would receive a total combined consideration of \$33.15 per EMC share and the total transaction would be valued at approximately \$67 billion. The value of the tracking stock may vary from the market price of VMware given the different characteristics and rights of the two stocks.

The EMC Board of Directors approved the merger agreement and intends to recommend that stockholders of EMC approve the agreement.

The combination of Dell and EMC will create the world's largest privately-controlled, integrated technology company. The company will be a leader in the extremely attractive high-growth areas of the \$2 trillion information technology market with complementary product portfolios, sales teams and R&D investment strategies. The transaction combines two of the world's greatest technology franchises with leadership positions in servers, storage, virtualization and PCs and it brings together strong capabilities in the fastest growing areas of the industry, including digital transformation, software-defined data center, hybrid cloud, converged infrastructure, mobile and security.

Since becoming a private company, Dell has had the flexibility and agility to focus completely on customers and invest for long-term results. The transaction will unite Dell's strength with small business and mid-market customers with EMC's strength with large enterprises to fuel profitable growth and generate significant cash flows. The combined company will consist of strategically-aligned businesses and incubated high-growth assets, fostering innovation, enabling customer choice and attracting and retaining world-class talent.

"The combination of Dell and EMC creates an enterprise solutions powerhouse bringing our customers industry leading innovation across their entire technology environment. Our new company will be exceptionally well-positioned for growth in the most strategic areas of next generation IT including digital transformation, software-defined data center, converged infrastructure, hybrid cloud, mobile and security," said Mr. Dell. "Our investments in R&D and innovation along with our privately-controlled structure will give us unmatched scale, strength and flexibility, deepening our relationships with customers of all sizes. I am incredibly excited to partner with the EMC, VMware, Pivotal, VCE, RSA and Virtustream teams and am personally committed to the success of our new company, our customers and partners."

"I'm tremendously proud of everything we've built at EMC – from humble beginnings as a Boston-based startup to a global, world-class technology company with an unyielding dedication to our customers," said Joe Tucci, chairman and chief executive officer of EMC. "But the waves of change we now see in our industry are unprecedented and, to navigate this change, we must create a new company for a new era. I truly believe that the combination of EMC and Dell will prove to be a winning combination for our customers, employees, partners and shareholders."

"We are excited and honored to invest in the outstanding businesses built by Joe Tucci and his world-class management team. This is an extraordinary opportunity to continue and expand our partnership with the iconic technology entrepreneur Michael Dell and his talented team," said Egon Durban, managing partner of Silver Lake. "We believe the strategic integration of EMC and Dell will generate unparalleled depth and breadth across servers, storage, virtualization and the next era of converged infrastructure, creating a global technology platform poised for sustained long term growth and innovation in the years to come. We are doubling down and increasing our investment in this differentiated market leader for the next paradigm of enterprise computing."

VMware will remain a publicly-traded company and continue to provide customers value through

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leading software-defined data center technology, together with its cloud, mobile and desktop offerings. This transaction is expected to accelerate VMware's growth across all of its businesses through significant synergies with Dell's solutions and go-to-market channels. VMware remains committed to investing in and partnering with its strong, industry ecosystem.

The transaction will be financed through a combination of new common equity from Michael S. Dell, MSD Partners, Silver Lake and Temasek, the issuance of tracking stock, as well as new debt financing and cash on hand. There are no financing conditions to the closing of the transaction.

Mr. Dell and related stockholders will own approximately 70 percent of the company's common equity, excluding the tracking stock, similar to their pre-transaction ownership.

Following completion of the transaction, Mr. Dell will lead the combined company as chairman and chief executive officer. Mr. Tucci will continue as chairman and chief executive officer of EMC until the transaction closes. Dell's headquarters will remain in Round Rock, Texas, and the headquarters of the combined enterprise systems business will be located in Hopkinton, Mass.

Historically, Dell and EMC have maintained conservative financial policies, and have strong track records of cash flow generation and debt reduction. The transaction is expected to have a neutral to positive impact on Dell's current corporate credit ratings. The combined company will focus on rapidly de-levering in the first 18 to 24 months following the closing of the transaction, and on achieving and maintaining investment grade debt ratings. In connection with the financing of the transaction and prior to or at the time of its closing, Dell expects to redeem any outstanding 5.625% Senior First Lien Notes due 2020.

The transaction is subject to customary conditions, including receipt of required regulatory and EMC stockholder approvals. The transaction is expected to close in the second or third quarter of Dell's fiscal year ending February 3, 2017 (within the months of May to October 2016).

For further information regarding all terms and conditions contained in the definitive merger agreement, please see EMC's Current Report on Form 8-K, which will be filed in connection with this transaction.

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### ***PTC to Acquire Vuforia from Qualcomm in \$65M Deal***

12 October 2015

PTC announced it has signed a definitive agreement to acquire the Vuforia business from Qualcomm Connected Experiences, Inc., a subsidiary of Qualcomm Incorporated for \$65 million. Vuforia is the industry's most advanced and widely adopted augmented reality (AR) technology platform, and will enrich PTC's technology portfolio and accelerate PTC's strategy as a leading provider of technologies and solutions that blend the digital and physical worlds.

Under terms of the agreement, PTC will acquire the award-winning Vuforia business, including the developer ecosystem. PTC is committed to continued investment in the Vuforia platform and to the ongoing support and growth of the Vuforia ecosystem.

Vuforia is a mobile vision platform that enables applications ("apps") to see and connect the physical world with digital experiences that demand attention, drive engagement, and deliver value. Today, Vuforia is supported by a global ecosystem of developers in 130 countries, and has powered more than 20,000 apps with more than 200 million app installs worldwide.

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The combination of Vuforia and PTC leverages two transformational technology trends – Internet of Things (IoT) and augmented reality (AR) – to deliver a new class of products that merge the digital and physical worlds. When coupled with PTC’s IoT and analytics platforms, Vuforia unlocks a world of possibilities for creating new ways to design products, to monitor and control products, and to instruct operators and technicians in the appropriate methods of use and service.

“PTC continues to pursue a strategy of providing an incredibly innovative technology platform that customers can use to capitalize on the emerging Internet of Things (IoT),” said PTC CEO Jim Heppelmann. “Because of what IoT is enabling, more and more products are now a mixture of digital and part physical content. So, naturally, the ways in which we interact with these products will evolve toward a mixed-reality model that blends physical and digital interactions. “

“By delivering powerful computer vision functionality through a simple API, the Vuforia platform has enabled developers and leading brands to deliver award-winning experiences to consumers around the globe,” said Jay Wright, Vice President of Vuforia, Qualcomm Connected Experiences, Inc. “Vuforia has also captured the attention of industry leaders who envision the potential for augmented reality to transform work. As part of PTC, Vuforia will allow developers to realize this potential through integration with PTC’s industry leading applications and ThingWorx IoT platform.”

Vuforia has wide adoption from leading companies including 37 of the Interbrand 100 and has consistently been awarded for its performance, robustness, and ease of use, including “Best Tool” at Augmented World Expo in each of the last three years. Vuforia supports multiple developer tools, including Eclipse, xCode, and Unity and runs on multiple operating systems and devices, including iOS and Android phones, tablets, and selected mobile eyewear.

“We are pleased with the prospect of adding the market-leading AR technology platform, together with its large developer community, to our technology portfolio. Vuforia will accelerate our leadership position helping companies to fundamentally change the way their products are created, operated, and serviced,” added Heppelmann. “We are excited about leveraging Vuforia’s technology leadership in the consumer market while unleashing the Vuforia capabilities into the enterprise. We look forward to welcoming the Vuforia team to PTC.”

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## Company News

### ***Amazon Enters Internet Of Things Market With AWS IoT***

12 October 2015

Amazon unveiled AWS IoT at its Invent conference, a platform created to make it easier for IoT devices to connect to **AWS** services so that companies can store, process, analyze and act on data these devices generate.

The new service for IoT is aimed at AWS customers and companies that now have to handle a lot of the development and infrastructure maintenance tasks for their Internet-of-Things efforts in house..

At the company’s Re:Invent conference in Las Vegas, SVP Andy Jassy revealed that AWS has grown at a rate of 81pc a year, surpassing the growth rates of other companies providing cloud storage and processing.

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He said the AWS cloud gives freedom for enterprises that want to innovate quickly “to say “yes” to new innovation” because they will not be held back by costs and other considerations that haunt “*traditional IT*”. It’s created to provide end-to-end support for managing and working with embedded devices through Amazon’s cloud.

During the event’s inauguration on October 6, the company announced three new AWS Partner Network (APN) Competencies.

The products span diverse areas of information technology from a business intelligence service named Quicksight, to security systems, to new tools to help people migrate databases from proprietary versions into free ones hosted within Amazon. QuickSight has been built to work with Amazon’s other AWS offerings, including DynamoDB, RedShift, Kinesis, and S3. They are charged for usage based on the size of each data record sent through the Firehose (\$0.035 to \$0.038 per gigabyte).

Amazon Web Services, Amazon’s cloud platform established in 2006, is nearly a decade old, and so Amazon thinks that now is the time for AWS to be launched in a much bigger scale and cover more of the cloud market. The cloud giant also announced that Amazon RDS will support its sixth database engine, open-source MariaDB.

**AWS IoT** provides an SDK that makes it easy for developers to use the **AWS IoT** functionality from connected devices, and from mobile and web applications.

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## ***Cadence Named One of World's 25 Best Workplaces***

15 October 2015

Cadence Design Systems, Inc. today announced that it has been named #21 on the World's Best Multinational Workplaces list from the Great Place to Work® Institute. Cadence is one of only 25 companies selected for this list from over 1,100 corporations worldwide. Selection for this prestigious recognition is acknowledgment for the high levels of commitment and engagement of the global Cadence team of over 6,500 employees and the company's commitment to its One Cadence-One Team culture.

Cadence is comprised of a diverse team of employees who say they are given the opportunity to innovate and partner with the world's most exciting technology companies to build products that are transforming lives. People come to Cadence not only to work on cutting-edge technology, but also to be a part of a strong team environment that encourages them to do their best work and grow their careers.

"The Cadence culture is a competitive differentiator worldwide and this 'World's Best' ranking confirms what we already know - that innovation starts with our people and our employees' commitment to our culture drives our success," said Tina Jones, senior vice president of Global Human Resources at Cadence. "Operating globally as one team, Cadence employees are passionate about collaborating to develop innovative technologies, and we are proud to work for a company that provides us with opportunities for personal growth and such meaningful work."

The Cadence one team approach can also be seen in its employee commitment to giving back to the communities where they live and work. Employees are inspired by the Cadence community programs, which include a global matching gift program, a community portal providing volunteer opportunities to employees and a global Volunteer Time Off benefit, which provides employees five paid days off to volunteer. Cadence's commitment to communities can also be seen through its University Donation

Program where the company donates software to over 1,000 universities around the globe.

To qualify for this award, companies must have been selected for at least five national Great Place to Work lists, have at least 5,000 employees worldwide and count at least 40 per cent of their global workforce (or 5,000 employees) outside of the company's home country. The Great Place to Work Institute has recognized Cadence in the U.S., Canada, China, Germany, India, Ireland, Korea and United Kingdom.

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## ***CD-adapco Enters Phase 2 of Pioneering Research into Multiphase Flow***

15 October 2015

CD-adapco, the largest privately held CFD-focused provider of Computer Aided Engineering software, announced that Dutch innovation company TNO and international energy consultancy Xodus Group have completed the first phase of a pioneering joint industry project (JIP) into the dynamic forces which affect the integrity of piping systems, in particular through multiphase flow. The second phase of the project, which is expected to be run across three stages, is now open for new participants to join.

Eight companies were involved in the first phase of the project: BP, Statoil, Total, Suncor, Shell, Lundin, Aker Solutions and FMC. TNO carried out the bulk of the test work at its facilities in The Netherlands, while Xodus managed the program and developed CFD schemes to be able to reproduce the measured results. Additionally, CD-adapco provided software (STAR-CCM+®) and carried out simulations in support of the JIP.

Multiphase flow, the passage of more than one fluid, gas or chemical substance through a pipeline, can cause flow induced vibration (FIV). This is an increasing concern on subsea (and topsides) production piping systems. As data is limited in this highly technical arena, the aim of the JIP is to investigate and understand the forces induced by multiphase flow on piping systems, and generate validation data for multiphase computational fluid dynamics (CFD) to model and analyze its occurrence.

Phase 1 was valued at more than £500,000 and involved testing on a 1.5 R/D stiff bend for a range of flow conditions. The inlet pipe to the bend had three configurations: straight, u-bend vertical and u-bend horizontal. Detailed measurements were made to analyze the forces acting on the bend, pressure and void fraction distributions upstream, downstream and within the bend. CFD calculations were carried out to compare test results with a range of flow conditions.

Phase 2 is actively seeking additional sponsors and will look to extend the work carried out in Phase 1 to cover a range of bend radii. It aims to begin in autumn this year. The scope is as follows:

- Testing additional bend configurations
- Preparation for testing at in service conditions for Phase 3
- Additional CFD studies

The goal is to raise awareness of this complex issue and increase knowledge to incorporate into advance screening, simulation and prediction models.

“This project will extend intelligence from small scale laboratory tests to ‘industrial scale’ piping systems,” said Mike Lewis, Global Lead - Computational Fluid Dynamics with Xodus Group. “As E&P activity goes ever deeper and into more extreme environments, and as subsea equipment becomes more

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complex, with the additional subsea processing for example, the potential increases for FIV to go unnoticed.

“The JIP is addressing this area of uncertainty in the industry and will provide a benchmark in order to carry out more accurate design calculations and prediction work. This will ultimately improve piping integrity, potentially increase production, and mitigate risk in this high consequence area.”

“The experimental results thus far have given us new insights on how to improve the mechanical integrity analyzes of subsea templates,” said Erik Nennie, Project Manager - Heat Transfer and Fluid Dynamics with TNO. “The outcome of the next phases will further improve the modeling tools for integrity analysis, as both design and operation of subsea templates can greatly benefit from these studies.”

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## ***Composites Capabilities Expanded at Altair with CEDREM Partnership***

14 October 2015

[Altair](#) today announced that [Centre d'Expertise en Dynamique Rapide, Explosion et Multiphysique, SAS \(CEDREM\)](#) has joined the [Altair Partner Alliance](#) (APA). The partnership adds CEDREM's KTEX Family of integrated numeric tools for composites to the APA.

"CEDREM is specialized in finite element simulations representing high speed phenomena (such as impacts, ballistics, explosion or blast) and composite behavior," said Karine Thorat Pierre, CEO at CEDREM. "To improve our models, tools representing the composite materials at the mesoscale and taking into account the manufacturing processes were needed. The KTEX Family meets this need. We improved our material laws and cut down the gap between simulations and reality. We are pleased to share those tools with the Altair community."

KTEX Family is a suite of numerical tools that analyze the behavior of composite materials during the manufacturing process. It is comprised of four modules: KTEX Pattern, KTEX Layup, KTEX Winding and KTEX Woven Property, all of which work at the scale of composite yarns, or the meso scale, and address specialized parts of the optimization and manufacturing process. KTEX Pattern models the exact geometry of any given weave while KTEX Layup simulates the behavior of that weave during the layup process. KTEX Winding visualizes the weave during the winding process and KTEX Woven Property calculates the homogenized mechanical properties for any given weave.

"KTEX Family offers complete analyzation and optimization of composite weaves and the effects that the manufacturing process has on them," said Shan Nageswaran, Senior Director, HyperWorks at Altair. "Looking at materials on the meso scale allows engineers to achieve a completely new perspective, especially in relation to ballistics, that Altair customers will find especially valuable. We are really looking forward to further collaboration with the CEDREM team."

Integrated completely with HyperMesh, users are able to model weaves in any dimension (1D, 2D, 3D) using all fiber and matrix materials available. Highlights of the software capabilities include representation of customized weaves with bespoke fiber and matrix materials and prediction of the impacts of the manufacturing process on the final part. Users are also able to optimize the weaving pattern as well as the manufacturing processes necessary to produce it. While composites modeling is necessary and applicable in many industries, KTEX Family is especially suited for those in automotive and performing ballistics.

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## ***GCI To Distribute Nuage Networks Technology***

13 October 2015

Global Convergence Inc. (GCI) announced recently it has signed a global master distributor agreement with Nuage Networks, the Alcatel-Lucent venture, to meet the growing demand for its software-defined networking (SDN) solutions around the world. GCI will offer the full Nuage Networks portfolio, which includes the Virtualized Services Platform (VSP), Virtualized Network Services (VNS) and Virtualized Services Assurance Platform (VSAP).

Nuage Networks' SDN overlay helps large enterprises simplify network operations, deploy applications with more agility and adapt network services instantaneously to match rapidly changing IT demands in a secure multi-vendor cloud environment. It allows enterprises to maintain visibility and control within and across their data centers, extending to their remote locations.

The distribution agreement will connect Nuage Networks to GCI's extensive base of channel partners with expertise in providing data center and cloud solutions on a global basis. Channel partners will also have access to GCI's ProvisionPlus global services offering, designed to aid them in deploying Nuage Networks' solutions and to provide a fast enablement path to market.

"Our global distribution agreement with Nuage Networks further demonstrates our commitment to bringing leading-edge technologies to the channel," said Jim Bradshaw, CEO and Chairman of the Board of GCI. "Nuage Networks' technology is the industry's premier SDN platform and, with access to this technology, our channel partners can now participate actively and meaningfully in a rapidly growing market."

"Working with GCI to reach value-added resellers with expertise in data center and cloud technologies will make it easier for enterprises to procure Nuage Networks solutions," said Charles Ferland, Vice President, Business Development, Nuage Networks. "GCI's ProvisionPlus services offering will both shorten the time to market for partners and optimize the Nuage Networks solution for end users around the world. This will allow them to take advantage of all our features and functionality the very day they implement it."

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## ***Intergraph SG&I Becomes Hexagon Safety & Infrastructure***

13 October 2015

Intergraph's Security, Government & Infrastructure (SG&I) division has rebranded globally as Hexagon Safety & Infrastructure. The new name more closely aligns the business and its industry-leading solutions with parent company, Hexagon.

"Since acquiring Intergraph in 2010, Hexagon has made many strategic and beneficial investments in safety and infrastructure solutions – from research and development to acquisitions and partnerships," said Steven Cost, president, Hexagon Safety & Infrastructure. "Those investments have helped meet the needs of governments and service providers around the world – improving operations, enhancing enterprise-wide information and reducing the total-cost of ownership for mission-critical and business-critical IT systems."

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"In rebranding Intergraph SG&I as Hexagon Safety & Infrastructure, we're externally communicating Hexagon's commitment to our customers and our markets. We're building on our past as Intergraph and embracing the future as Hexagon. As Hexagon Safety & Infrastructure, we'll continue to strive to be a trusted partner to our customers, applying expertise and innovation to improve their operations and services," Cost said.

With the rebranding, Hexagon Safety & Infrastructure has unveiled a new creative identity, new website and new social media presence. Hexagon Safety & Infrastructure will continue to use the Intergraph name in product branding.

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## ***Lectra-ESCP Europe Chair organizes a round table discussion on "Fashion, Sustainable Development and Technology"***

14 October 2015

Lectra recently organized a round table on "Fashion, Sustainable Development and Technology" under the auspices of the "Fashion and Technology" Chair. The Lectra-ESCP Europe Chair, inaugurated in February 2014, aims to develop and convey knowledge based on innovations within the fashion and luxury sectors, thanks to cutting-edge technologies.

In the run up to the launch of the Conference of the Parties to the United Nations Framework Convention on Climate Change (COP 21), which will be held next month in Paris, Lectra and ESCP Europe sought to present some of the ongoing sustainable development changes in the fashion sector. The round table attendees included, Rémi Crinière, Head of Environmental and Social Responsibility H&M France; Dr. Helen Crowley, Head of sustainable sourcing innovation, Kering; Philippe Mangeard, European TK'Blue Agency President; Eva Zingoni, sustainable fashion designer as well as Laurence Jacquot, Director of Industrial Operations and Hardware R&D, Lectra.

The panelists agreed on a number of principles that allows the fashion industry to become environmentally sustainable more quickly and efficiently. These included, being one step ahead of consumers' behavior; the necessity of supply chain transparency; participating in cross-industry platforms in order to drive forward innovation; use technology that permits fashion brands to be more environmentally friendly as well as socially responsible.

"The fashion industry should be ahead of its time. Unfortunately, it has fallen behind as far as sustainable development is concerned," points out Eva Zingoni. The clothing industry suffers from structural constraints, making it one of the least sustainable sectors. This impacts the entire supply chain, beginning with the production of raw materials to end-of-life product management via manufacturing conditions.

"A fashion company, such as Kering, has to manage worldwide and complex supply chains. We have already developed several actions and programs to improve our understanding so as to better measure our impact and therefore reduce it step-by-step throughout the entire supply chain," explains Helen Crowley. Kering, which is at the top of the Dow Jones Sustainability Index 2015 in the textile, clothing and luxury products sector for the second consecutive year, has decided to implement a more sustainable economic model that covers the entire span of its operations. To execute this strategy, the company uses an important tool, namely the environmental profit and loss account (E P&L), which is integrated into all of its brands.

"It is possible to develop and find more sustainable solutions so long as there is a will to do so. It is above all a matter of company culture and state of mind," affirms Rémi Crinière. "The company's

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strategic choices must be stable in order to be lasting. Swedish, family-owned company H&M focuses on long-term rather than short-term profits by adhering to sustainable development and circular economy practices." The H&M Conscious Foundation recently launched the Global Change Award, endowed with one million euros, to drive innovation that will bring the circular economy into the fashion industry.

"Innovation and best practices help to reduce both transportation's cost and overall environmental footprint (CO<sub>2</sub>, particles, but also noise, congestion.) in an industry that is heavily dependent upon such means. This is not just the case for international transportation, but also inner-city delivery to stores and e-commerce customers," adds Philippe Mangeard.

"Lectra's innovative solutions help fashion industry players reduce their carbon footprint, while respecting economic priorities," notes Laurence Jacquot. "For example, 3D technology reduces the use of physical prototypes, while PLM allows teams to work together in real time without any paper work. Better designed collections respond to consumer demand, thereby reducing waste associated with unsold merchandise."

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## ***ThingWorx, Analog partner on IoT Applications***

14 October 2015

ThingWorx, a PTC business and a leading Internet of Things (IoT) platform provider, today announced it is working with global semiconductor company Analog Devices, Inc. (ADI) to offer customers an integrated sensor to cloud environment using the ThingWorx® IoT Platform.

Smart, connected products and devices can generate thousands of real-time readings that create tremendous amounts of data. The collaboration between ThingWorx and ADI is designed to make it easier for customers to intelligently bridge the physical and digital worlds with technologies that sense, measure and connect. This collaboration will support the smart, connected product data's IoT journey from devices and sensors to wireless communication to big data collection and analysis.

"A multitude of partners representing a variety of industries around the globe have selected the ThingWorx IoT Platform to help deliver IoT products and services that enable customers to increase value and grow revenues," said Russ Fadel, president, ThingWorx. "We're excited to collaborate with Analog Devices and endeavor to solve IoT infrastructure challenges such as connectivity, communications and other foundational services, so that customers can focus their time and energy on creating IoT applications to generate business value."

ADI offers a broad portfolio of high performance analog, mixed-signal, and digital signal processing (DSP) integrated circuits (ICs) used in virtually all types of electronic equipment. Used by over 100,000 customers worldwide, ADI signal processing products play a fundamental role in converting, conditioning, and processing real-world phenomena such as temperature, pressure, sound, light, speed, and motion into electrical signals to be used in a wide array of electronic devices.

"Our vision in this IoT era is to help companies harness the power of the data generated from sensors in smart, connected products," said Martin Cotter, vice president, Healthcare, Consumer and IoT, Analog Devices. "Through our collaboration with ThingWorx, we will strive to enhance our customers' experience utilizing the data provided to the ThingWorx IoT Platform to empower rapid, rich and interactive IoT applications, real-time dashboards, collaborative workspaces, and mobile interfaces

quicker than ever before.”

The ThingWorx Partner Program supports the engagement and enablement programs for technology partners, system integrators and consultants that complement the ThingWorx IoT technology platform. ThingWorx partners add high value to customers – by providing IoT expertise and technologies that contribute to a more complete IoT solution.

ThingWorx enables partner success by offering partners an appropriate mix of technical education and certification, sales training, co-marketing, and a variety of go to market models maximizing partner investment and optimizing their success with ThingWorx in the IoT space. To learn more about becoming part of the ThingWorx IoT partner ecosystem, visit [here](#).

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## Event News

### ***Airbus, BAE Systems, ECCO to Speak About Their Approach to Successful PLM at ACE 2015 Europe, Aras User Conference***

16 October 2015

Aras® today announced that representatives from Airbus, BAE Systems, and ECCO will be speaking at ACE Europe, the annual Aras user conference to be held in Berlin on November 10 & 11. PLM experts and software users will offer insights and new approaches to ALM/PLM integration, Model Based Systems Engineering (MBSE), secure collaboration, PLM flexibility, connected products, cloud deployment options and Industry 4.0.

At the ACE 2015 Europe attendees can:

- Attend focused sessions on a wide range of both business & tech topics
- See innovative new solutions that will transform business processes
- Learn about the latest technological advancements in PLM
- Network with Aras users and learn best practice strategies

Titled Rethink PLM, the conference welcomes not only Aras subscribers, but any company looking for a better way to achieve successful PLM implementations. Attendees will hear real life stories and new strategies for rapid deployment of PLM solutions in complex product environments that include heavily customized solutions or integrations with MCAD, ECAD, ALM, and other PDM or PLM. Highlights of the event include presentations by Peter Schroer, CEO and founder of Aras, as well as Prof. Dr. Martin Eigner from the chair of Virtual Product Development (VPE) of the University of Kaiserslautern.

“ACE Europe provides the ideal venue for networking with other Aras users,” said Michael Mayr, Marketing Manager EMEA at Aras. “With customer presentations and partner exhibitions, the conference offers a unique opportunity to learn best practices from industry-leading companies.”

Participation in ACE 2015 Europe is free of charge. The event will be held on November 10 & 11 at the andel’s Hotel Berlin. For more information and to register, visit [www.aras.com/ace/2015/eu/ace-2015-europe-registration.aspx](http://www.aras.com/ace/2015/eu/ace-2015-europe-registration.aspx). More information also on Twitter [@aras\\_plm](#) and on the German Aras PLM Blog: <http://www.aras-blog.de>

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# CIMdata PLM Industry Summary

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## *Delcam's aerospace software and services on show at AIRTEC*

16 October 2015

Delcam will promote its wide range of software and services for the aerospace manufacturing and MRO industries at AIRTEC exhibition to be held in Munich from 3<sup>rd</sup> to 5<sup>th</sup> November. These services can help aerospace companies whenever they need to increase productivity, to reduce lead times or to improve quality and consistency.

Recent developments using Delcam software include a novel method for blisk machining produced in partnership with Technicut cutting tools. The new process, which was programmed with the [PowerMILL](#) CAM system, delivered a 51% saving in cycle time and a 45% reduction in milling costs. A video demonstration can be seen at <https://www.youtube.com/watch?v=W1nqbQHV1Ew>

Another successful partnership, this time with Iruba, a German provider of engineered solutions, and machine-tool manufacturer Hermle, lead to a novel method for the creation of “fir-tree” profiles. It allows these complex shapes to be produced on milling machines, such as the Hermle C60 five-axis machining centre, rather than having to use specialist broaching equipment. The use of PowerMILL's trochoidal strategies to program the operation gives a number of benefits, in particular high material removal rates with lower, and more consistent, cutting forces as can be seen in the video <https://www.youtube.com/watch?v=XcU3LaZA9yA>.

Delcam has also completed many projects on the use of robots to replace manual finishing operations, including a system for the polishing of turbine blades by robot developed in association with Finland-based JOT Automation. This uses an ABB robot driven by a combination of Delcam software including [PowerMILL Robot](#) and [PowerINSPECT](#) and can be seen at [www.youtube.com/watch?v=mK4x1U0E-fk](http://www.youtube.com/watch?v=mK4x1U0E-fk)

Delcam is also working on additive manufacturing, with the company's adaptive machining technology used to program hybrid machines like those produced by Hamuel. This combines five technologies in one unit – five-axis CNC milling, laser cladding, robot polishing, inspection and laser marking, all programmed with Delcam software. An example of the machine's use for blade repair can be seen at <https://www.youtube.com/watch?v=4kZOE6KP8U8>.

These latest projects continue a trend that has seen Delcam systems used, at some stage, on virtually every major aircraft programme in recent years. The company's customers have undertaken projects in all the various areas that go towards producing a successful aircraft, from developing more fuel-efficient engines, to manufacturing airframe components more effectively, and even in designing more comfortable and more attractive interiors. They have worked on all scales of project, from the manufacture of components for UAVs and helicopters up to the production of engines and airframes for the largest passenger and transport aircraft.

Delcam also supports a large number of MRO operations. These companies use Delcam systems to enable the fast, efficient repair or replacement of damaged components. By minimising design and manufacturing times, while maintaining the highest levels of quality, repairs can be completed as quickly as possible, so minimising the time-on-ground of the aircraft.

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## *Delcam to launch new ArtCAM Insignia woodworking CAD/CAM at WMS*

13 October 2015

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Delcam will launch the 2015 R2 version of its ArtCAM Insignia artistic CAD/CAM software for the woodworking, signmaking and engraving industries at the Woodworking Machinery & Supply Conference and Expo to be held in Toronto, Canada, from 5<sup>th</sup> to 7<sup>th</sup> November. The new release includes new and improved options for both design and manufacture to allow users to deliver complex projects more easily and more quickly.

Unlike most other CAD/CAM systems, the ArtCAM range of software is aimed at artisans and hobbyists rather than engineers. The programs are designed to require little knowledge of engineering or computing. ArtCAM Insignia has been particularly successful in the volume production of artistic items in 2D or 3D by signmakers, woodworkers and engravers, amongst others. In all these areas, ArtCAM Insignia allows users to increase productivity, improve quality and deliver new designs more quickly, by combining their craft skills and creativity with the power and precision of computer-aided manufacturing.

Two options have been added in the 2015 R2 release of ArtCAM Insignia to help users to design with vectors. Firstly, snap hints now appear to help in spotting hard-to-find snap points within vectors when creating designs. Secondly, the thickness of vectors can be changed, in either the 2D or 3D view, making it easier to visualise the design. Accuracy will also be helped by the addition of rulers in the 3D view to make it easier to create precise artwork and to position elements of the piece.

A combine/replace mode was added in ArtCAM Insignia 2015 for customers creating 3D designs from imported models or the relief clipart included with the software. The ability to overlap and intersect reliefs has been enhanced with a new option to interactively blend the reliefs. This allows relief clipart to be pulled up or pushed down in the Z axis to give a better blend with an overlapping 3D design.

The range of modelling tools that operate in real time has been extended to include the 3D weave tool, allowing designers to see changes to their woven shapes as they happen.

The main machining enhancement in the 2015 R2 release is significantly faster machining simulations thanks to a new algorithm that uses the specialist processor in the computer's graphics card to calculate thousands of operations simultaneously. This is a significant improvement over standard multi-threading. Another area of improvement is corner machining, where fillets can be added to vectors to allow more accurate machining of slots. In a related development, loops can be added for creating corners with knife cutting.

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## *ESI's 3rd OpenFOAM User Conference will take place October 19-21 in Stuttgart, Germany*

14 October 2015

**ESI Group** announces the third **OpenFOAM User Conference**. Scheduled in Stuttgart on October 19-21, 2015, the event will bring together the global **OpenFOAM** community to hear about the latest OpenFOAM developments and to share best practices. ESI, who **acquired OpenCFD Ltd. in 2012**, continues to enhance the world's most popular open-source CFD code to enable efficient product development, at an industrial scale. In addition to providing information on software updates, elaborated by the ESI-OpenCFD team, the Conference features many customer presentations, including from longtime ESI customer Volkswagen, and a third day dedicated to hands-on training.

**OpenFOAM** is a free, open source CFD software package developed by ESI-OpenCFD and other participants in the global OpenFOAM community. It has a large user base in both commercial and

# CIMdata PLM Industry Summary

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academic organizations and addresses needs in most areas of engineering and science. OpenFOAM has an extensive range of features that address anything from complex fluid flows involving chemical reactions, turbulence and heat transfer, to solid dynamics and electromagnetics. Being open, OpenFOAM offers users complete freedom to customize and extend its existing functionality, either by themselves or through support from ESI-OpenCFD and other vendors in the OpenFOAM ecosystem.

For each of the two previous Conferences in Frankfurt and Berlin, over 250 participants gathered from around the world to discuss their usage of [OpenFOAM](#). This year, ESI again invites all OpenFOAM enthusiasts to join the global OpenFOAM community to share experience and ambition and to participate in the training offered by ESI-OpenCFD.

The [agenda of the third OpenFOAM User Conference](#) offers a combination of plenary sessions with exciting keynotes, and parallel tracks addressing the particular needs of various industry sectors: Automotive, Transportation, Aerospace, Chemical Processing, Energy & Power, Electronics, Consumer Goods, and Machinery. Additional tracks will focus on OpenFOAM technology and Cloud computing and will provide hands on training on ESI's newly available end-to-end web-based OpenFOAM solution.

Keynote speakers include **Prof. Michael Strelets** from St.-Petersburg Polytechnic University presenting a paper entitled "[Detached Eddy Simulation: History and Future](#)" (Co-Author: P.R. Spalart, Boeing Commercial Airplanes). **Dr. Gerd Rapin**, Volkswagen Aktiengesellschaft, will expose "[OpenFOAM at Volkswagen: Experiences, Challenges and Requirements](#)", and **Dr. Christian Kunkelmann**, BASF SE, will present "[CFD for Chemical Engineering - Benefits & Challenges](#)".

ESI is delighted to welcome presentations from many OpenFOAM users, including the following organizations: ABB Inc., Atizar Ltd., Augusta Westland, Bauknecht/Whirlpool, BASF, BMW, CEA, CFD Software Entw.- und Forschungs GmbH, Delft University, Deutsches Biomasseforschungszentrum, ENGYS, DHCAE Tools, IDEEL, Intel Corporation, Faurecia, Helmholtz-Zentrum Dresden, HPC Advisory Council, MAHLE Behr, Manipal Institute of Technology, Mercedes-Benz R&D, Robert Bosch, Singapore Institute of High Performance Computing, Stuttgart University, Tata Consultancy Services, The UberCloud, TXT e-solution, University of Florence, University of Rostock, Volkswagen, Von Karman Institute, Wikki Ltd., and many more.

During the Conference, an exhibition area will welcome solution providers BETA CAE, CAE Solutions, CEI, DHCAE Tools, ENGYS, Friendship Systems and Transtec. We also gratefully acknowledge Intel as sponsor for the Intel Best Presentation Award.

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## ***Pioneering Design From 3D Printer to Wearable Fashion - Danit Peleg Collection to be Presented at ideation2015***

16 October 2015

What began as an experiment for a graduate degree has become an internationally recognized collection of 3D fashions created entirely on home printers. Israel-based designer Danit Peleg will present her 3D-printed, five-piece fashion collection at Gerber Technology's ideation2015, Oct. 29-30 in Las Vegas.

"Gerber is providing the integrated software and digital solutions that fuel the imagination for new design and production approaches," said Karsten Newbury, Gerber vice president and general manager, Software Solutions. "Danit's work is an excellent example of persistence and innovative thinking, and

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shows where the industry can go in the future. We are excited to have Danit tell her story as part of ideation2015."

Peleg, 27, created the 3D-printed collection as part of her graduate collection for her fashion design degree at Shenkar College of Engineering and Design. The collection was created using home printers following nine months of research and development. Each outfit required 400 hours to print, and Peleg experimented with a wide range of CAD and printing systems, including Blender. Peleg has since begun working with Gerber's AccuMark® 3D visualization, animation and simulation technology. The collection was designed based on the work, *Liberty Leading the People* by Eugene Delacroix, and the textile designs were inspired by the soft elements of Andreas Bastian's Mesostructured Cellular Materials.

ideation2015 offers hands-on workshops, demonstrations, case studies and networking opportunities. In addition, Peleg will be participating in the ideation2015 Innovators' Panel, a discussion among the industry's thought leaders about trends and 'the next big thing.'

The conference will also feature a competition for students pursuing a degree in fashion design, using vintage dresses from The Darnell Collection as inspiration. Students will design their own fashions, which will be produced in 3D, physically created and modeled at the conference. Keynoting ideation2015 is Tim Gunn, Emmy-winning co-host and mentor for Lifetime's *Project Runway*, Fashion Dean at Fifth & Pacific and member of the administration and faculty at Parsons School of Design.

With the theme, "Everything has changed. But one thing hasn't," ideation2015 will highlight the technology and new developments that have dramatically changed the fashion industry. For more information or to register for the conference, which is October 29 and 30 at Caesars Palace, Las Vegas, visit [www.gerberttechnology.com/ideation/](http://www.gerberttechnology.com/ideation/).

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## Financial News

### ***EMC Pre-Announces Third-Quarter Financial Results***

12 October 2015

EMC Corporation today announced preliminary third-quarter 2015 results: consolidated revenue is expected to be between \$6.05 and \$6.08 billion. GAAP earnings per weighted average diluted share is expected to be approximately \$0.25. Non-GAAP earnings per weighted average diluted share is expected to be approximately \$0.43<sup>1</sup>.

Zane Rowe, EMC Corporation CFO, said, "During Q3, thanks to the hard work of the team, we continued to generate positive momentum in our IT transformation-focused businesses such as Pivotal, VMware and our emerging storage portfolio. We also experienced a higher than expected build in unshipped storage product orders of approximately \$100 million due to the timing of bookings in the third quarter; this impacted GAAP and non-GAAP EPS by approximately \$0.02."

In addition, Dell Inc. and EMC Corporation today [announced](#) they have signed a definitive agreement under which Dell, together with its owners, Michael S. Dell, founder, chairman and chief executive officer of Dell, MSD Partners and Silver Lake, the global leader in technology investing, will acquire EMC Corporation, while maintaining VMware as a publicly-traded company.

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EMC will discuss further details about third-quarter 2015 results during its previously scheduled earnings call at 8:30 a.m. ET on Wednesday, October 21.

Given this morning's announcement regarding EMC's entry into a definitive merger agreement, the company will no longer be providing outlook for its 2015 financial results.

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### ***Infosys Q1 FY16 results***

12 October 2015

[Infosys](#) results for first quarter (Q1) of FY16 showed a net profit of Rs 3,030 crore, registering a 5 per cent increase year-on-year. Vishal Sikka, CEO and MD, Infosys had reacted thus in July, 2015 after announcing the results: "I am very pleased with our performance in the first quarter. Our efforts in redesigning our clients' experience and our widespread adoption of innovation, both in grassroots and breakthroughs, are starting to bear fruit in large deal wins and in the growth of large clients."

Infosys maintained its annual revenue guidance at 10-12 percent for this financial year – or what it had projected in April. In dollar terms, though, the guidance has been revised upward by 100 basis points. Infosys reported consolidated revenue of Rs 53,319 crore for last fiscal (2014-15) in rupee terms and \$8.7 billion in dollar terms, which was 6.4 per cent growth YoY in rupee terms and 5.6 per cent in dollar terms.

Infosys kept its rupee-denominated revenue growth view for the business year through March at a range of 10 per cent to 12 per cent. But it raised its outlook in dollar terms to 7.2 per cent to 9.2 per cent, from 6.2 per cent to 8.2 per cent.

On a quarterly basis the Q1 revenue growth was 7 per cent which was the highest in 15 quarters in dollar terms. The company said its business volume growth, a key barometer for demand, was up 5.4 percent in the June quarter from the previous three months, the most in nearly five years, bolstered by a surge in demand from clients in the United States, its biggest market.

Infosys added 79 clients in April-June, taking its total to 987. Client wins included a multi-year contract from a major German bank for application maintenance services, digital and mobility services, package implementation, and testing services.

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### ***SAP Q3 Operating Profit Rises On Strength In Mature Markets***

13 October 2015

SAP AG announced that its operating profit for the third quarter, excluding special items, rose 19 percent year over year, reflecting double-digit cloud and software revenue growth on strength in mature markets. Revenue from cloud subscriptions more than doubled from last year.

Announcing its preliminary results, SAP said that operating profit for the third quarter rose 5 percent to 1.21 billion euros from 1.16 billion euros in the year-ago period. The results are on IFRS basis.

Non-IFRS operating profit for the quarter jumped 19 percent to 1.62 billion euros.

Total revenues for the quarter on IFRS basis climbed 17 percent to 4.98 billion euros from 4.25 billion euros in the prior-year quarter. Non-IFRS total revenue also rose 17 percent to 4.99 billion euros.

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Cloud and software revenues grew 19 percent to 4.12 billion euros, with revenues from software licenses and support rising 11 percent to 3.52 billion euros. Non-IFRS cloud and software revenue also improved 19 percent.

Revenues from cloud subscriptions and support surged 116 percent to 600 million euros. New cloud bookings, the key measure for SAP's sales success in the cloud, increased 102 percent in the third quarter to 216 million euros.

SAP CFO Luka Mucic noted that the company's flagship next-generation business suite S/4 HANA is rapidly gaining market share. The S/4 was released earlier in 2015.

Looking ahead, SAP reiterated its outlook for fiscal 2015. The company expects full-year non-IFRS operating profit in a range of 5.6 billion to 5.9 billion euros at constant currencies.

SAP continues to expect full-year 2015 non-IFRS cloud subscriptions and support revenue in a range of 1.95 billion to 2.05 billion euros at constant currencies, compared to 1.10 billion euros generated last year.

Full year non-IFRS cloud and software revenue is still expected to increase by 8-10 percent at constant currencies, from 14.33 billion euros reported last year.

SAP will report its complete results for the third quarter and nine months 2015 on October 20.

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### ***SofTech Announces Q1FY 2016 Operating Results***

16 October 2015

SofTech, Inc. today announced its first quarter operating results for the three months ended August 31, 2015.

For the first quarter of fiscal year 2016, the Company generated revenue of approximately \$981,000 as compared to \$864,000 in the same period in fiscal year 2015, an increase of about 13.5%. The net loss for the first quarter of fiscal year 2016 was approximately \$(174,000) or \$(0.19) per share as compared to a net loss of \$(572,000) or \$(.64) per share for the same period in fiscal year 2015. EBITDA for the first quarter of fiscal year 2016 was \$(114,000) as compared to \$(368,000) during the same period in fiscal year 2015.

Revenue growth for the Company's ProductCenter and Connector technologies was consistent with the growth experienced in fiscal year 2015. Revenue from the CADRA technology, a product we market and support in Europe under a Distributorship Agreement with Mentor Graphics Corporation, decreased 26% in the current quarter as compared to the same period in the prior fiscal year. The decline in the Euro relative to the USD was the primary reason for the CADRA revenue decline.

Cash expenses other than purchase of third party products and services were approximately \$992,000 for the first quarter of fiscal year 2016 as compared to \$1,180,000 in the same period in fiscal year 2015, a decrease of 15.9%. Third party purchases were essentially unchanged.

"We are pleased with the consistent revenue growth of our own technology and service offerings," said Joe Mullaney, SofTech's CEO. "In addition, we have controlled our spending and continued to develop the HomeView™ product, an offering we believe has a significant market opportunity. We will be introducing HomeView to the market place in our third fiscal quarter."

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“The pipeline of identified, qualified projects signals continued revenue growth for our ProductCenter and Connector technologies over the coming quarters. In the first quarter our consultants continued to bill at an above average rate as compared to the average quarterly billings for the last two years which we also expect to continue,” he added.

The Company will be demonstrating its HomeView product at Inman Connect, a real estate focused event in New York City in January 2016. The mobile app will be available for download from the Apple iTunes Store well before the Conference.

“We have invested a great deal of time, money and energy into the HomeView technology and we are more enthused and confident of its value than ever,” said Bob Anthonyson, HomeView’s President and CEO. “Current trends support our view that prospective home buyers will welcome, and over time will insist on, the comprehensive information about a home’s details and history that HomeView can capture. Moreover, existing homeowners can use HomeView in the day-to-day running of their homes, a task which is becoming only more complex as themes such as energy efficiency and home automation become more popular,” he added.

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### ***TCS Q2 net profit at Rs 6,055 crore***

13 October 2015

Tata Consultancy Services (TCS) has reported a 16 per cent surge in net profit to Rs 6,084.66 crore for the quarter (Q2) ended September 30. However, according to the company statement, as per IFRS, the net profit for Q2 stood at Rs 6,055.20 crore whereas revenues was Rs 27,165.50 crore.

The Mumbai-based firm had reported a profit of Rs 5,244.28 crore in the corresponding period last fiscal, it said in a regulatory filing.

The company’s total income from operations for the quarter rose 14.06 per cent to Rs 27,165.48 crore as against Rs 23,816.48 crore last year. The figures are in Indian GAAP.

TCS CEO and MD N Chandrasekaran said: “We have delivered accelerated growth in constant currency terms for Q2. Driven by great execution on the ground, our broad-based performance has been led by strong sequential growth in BFS, retail and life sciences verticals with the UK and North America leading the markets.”

The company said core markets like the UK, North America and Europe grew smartly along with emerging markets like Latin America, India and MEA.

TCS also announced a dividend of Rs 5.50 per share. Its operating margin for the quarter stood at 27.1 per cent.

The company said there was a total gross addition of 25,186 people (net addition of 10,685 employees) taking the total employee strength of 3,35,620 on consolidated basis.

The utilisation rate (excluding trainees) was at 86 per cent while the attrition rate stood at 16.2 per cent.

“On a quarterly basis, our retention levels have improved this quarter with a net addition of over 10,000 employees in Q2. Our hiring continues to be strong with all-time high of over 25,000 employees joining us this quarter,” said Ajoy Mukherjee Executive VP and Global Head Human Resources.

Speaking to the media after announcing the key numbers, Tata Consultancy Services CEO & MD N

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Chandrasekaran said, “We have always performed better than the industry. We are happy with our performance in Q2. TCS added three clients in \$100 million band. \$10 million customers are up by 6 in Q2.”

TCS chief painted a rosy picture and added, “We will be hiring. We are looking at building up the bench at TCS. We have increased hiring target to 75,000 from 60,000.”

Speaking with the same positive sentiment, he said, “Over 30,000 employees have already been trained in digital learning platform in Q2. Gross employee addition in Q2 was 25,186, taking total headcount to 335,620.”

Rajesh Gopinathan, chief financial officer (CFO) at TCS said the company is focused on fiscal discipline to help business growth. “Our focus on profitability has increased our margins sequentially and generated cash flows while investing in future growth,” he said.

Chandrasekaran said, “TCS has delivered a very secular growth. North America and UK in fact, have done exceeding well for us.”

Chandrasekaran laid emphasis on the fact that the company had delivered an accelerated growth in constant currency terms. “Given the growing market adoption of Digital, we continue to take new IP-led products and platforms to market successfully as well as invest in training our talent.”

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## Implementation Investments

### ***BAE Systems Sweden Selects Aras for Common PLM Platform***

14 October 2015

Aras® today announced that BAE Systems Sweden, a subsidiary of BAE Systems Plc. and a leading manufacturer of weapons systems and military vehicles, has selected Aras Innovator® as the new common PLM platform to establish a single, unified PLM backbone across the enterprise for systems development.

BAE Systems Sweden has selected Aras gold certified partner Minerva, based on technical expertise and experience, to conduct the Aras implementation and data migration from the two legacy PDM systems, using a multi-phase approach. Phase one will include Aras solutions for configuration management, Bill of Materials (BOM) and document/CAD management, enterprise reporting and searching, and secure social, as well as integrations to multiple MCAD and ECAD systems, SAP and IFS ERP, and Eurosteps Share-A-space data repository.

“With Aras, we will be able enhance the business efficiency, reduce cost and get a modern future proof technology in place,” said Kalle Hagström Head of Information Systems at BAE Systems Sweden.

Following an extensive evaluation of the major PLM systems on the market, BAE Systems Sweden chose Aras based on four criteria:

- Depth and breadth of functionality
- Flexibility and ease of use

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- Total cost of ownership
- Implementation partner competence

“BAE Systems’ drive for a platform of the future to develop their next generation defense systems demonstrates a bold and forward thinking approach to innovation,” said Peter Schroer, CEO of Aras. “We are proud to provide BAE Systems Sweden with PLM platform technology that can be easily customized to support the complexity of their engineering business processes while maintaining upgradability.”

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## ***Bobcat Company introduces 3D grade control system***

16 October 2015

A partnership between Bobcat Company and Trimble has produced a 3D grade control system solution for use with Bobcat skid-steer loaders, compact track loaders and all-wheel steer loaders.

The Trimble GCS900 grade control system for use with Bobcat 96- and 108-inch heavy-duty grader attachments will offer both small and large contractors alike the ability to work on complex projects that require digital designs and 3D machine control.

The new grade control system paired with a Bobcat loader and grader attachment will make it easier for operators to complete construction applications: residential and commercial development, coastal engineering, road and highway building and land reclamation. The new Trimble 3D grade control system allows operators to work at higher speeds without losing accuracy, increases valve responses and is a good grading solution.

The 3D grading system has a variety of measurable benefits. Less rework, less staking and checking, lower operating costs, improved material usage and faster job cycles can improve productivity, allowing for a stronger bottom line.

Instead of changing machines with the Trimble grade control systems, operators only have to use the industry standard Controller Area Network (CAN) harnesses that allow sensors to be moved from machine to machine. The flexibility of the control system allows operators to efficiently and quickly get the job done, and the system can pay for itself over time by improved accuracy and material savings. The Trimble GCS900 grade control system has been designed from the ground up to withstand tough jobsites.

The 3D system can be used with following M-Series loaders: the S750 through S850 skid-steer loaders; T650 through T870 compact track loaders; and the A770 all-wheel steer loader. A deluxe instrumentation panel is required for M-Series loaders in order to use the 3D system.

Better accuracy and ergonomic fingertip controls are two benefits of the 3D-ready kit, compared to the current 2D system offered on Bobcat compact loaders. The 2D system works off of a single plain – either flat, single or dual slope – whereas the 3D system works off of elevation coordinates set up around the jobsite, giving operators the ability to grade valleys, ditches and contours.

This system can display point data, machine diagnostics and jobsite progress live from the field to an office computer. The synchronization of machine data can lead to faster completion, less rework and

staking, lower jobsite cost and also help improve material yields.

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## ***Brodosplit increases efficiency with AVEVA integrated shipbuilding***

16 October 2015

AVEVA says that Brodosplit has implemented an AVEVA Integrated Shipbuilding solution. The solution optimises the design of vessels and offshore assets and the procurement, material management and production across the entire shipyard. The AVEVA solution will help Brodosplit to reduce project time, increase productivity and lower production costs.

‘BrodoSplit’s key objective was to improve the shipyard efficiency and productivity by selecting AVEVA,’ said Robert Pešut, R&D Director, Brodosplit. ‘We underwent a significant market evaluation before selecting AVEVA’s Integrated Shipbuilding solution, which was by far the best in the market. It was encouraging to hear that AVEVA’s marine software is used by many of the worlds’ most productive shipyards, which was a major factor in our choice. Combining Integrated Engineering & Design with Enterprise Resource Management enables us to ensure that all key processes have the correct information about materials and resources at the right time throughout the project life cycle.’

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## ***Cutting Tool Specialist Uses Edgecam For New Unique Customer Service***

15 October 2015

Cutting tool specialist CIS has set up a unique service, proving out parts for customers, using Edgecam as both its CAD and CAM systems.

Operating from its new, dedicated, Product Proving Centre in High Wycombe, CIS now provides full tooling information and cutting data for components that customers are having issues with. Also, if the customer is already using Edgecam, CIS can supply the full CNC program as well.

CIS has distributed cutting tools for over 30 years, currently supplying a wide range from companies such as Sandvik Coromant, Seco, Iscar, and Garr Tool. And now Managing Director Bryan Clover has taken the service a step further, by setting up the Product Proving Centre to assist customers facing issues with individual components.

Centre Manager Dave Clarke says: “We work with manufacturers in many industrial sectors, including motorsport, aircraft and medical, where high precision components and fast turn-around times are essential. Where they’re having difficulty making a part, or need advice on how to improve cycle times to comply with ever faster deadlines, we can now give them all the information to meet their needs.”

The new service involves interrogating the customer’s CAD model in Edgecam, then looking at the optimal way of manufacturing it, which often includes better performing cutting tools and improved CAM toolpaths. Once they have the best solution that fits the customer’s CNC machines they produce the part on their own CNC machines at the centre, and then give the customer all the relevant cutting data regarding feeds and speeds, and cutting tool information. “We provide them with the full solution, so they can complete their order for the finished parts, using the correct tool in the correct way with appropriate back ends and holders, and in the cycle times they need to achieve.”

He says they chose Edgecam to be their only CAD/CAM partner in the new venture because of its

## CIMdata PLM Industry Summary

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strength in all disciplines. “We have a Doosan 2-axis lathe and 3-axis mill, along with a Grob horizontal 5-axis machine, so it’s essential that we have software that can give us optimum toolpaths on all the types of cutting technology we use, and. I’ve used other CAM systems in the past, but Edgecam is the only one that’s strong on milling, turning and mill-turn.”

Edgecam is used to machine all components at the Centre, ensuring that the customer is given a realistic cycle time. “That’s extremely important. If a customer was producing a part in 30 minutes and we can show them how to do it in 20, that’s a good saving on one part...but a massive saving on 100 parts.”

They also use Edgecam’s Waveform Roughing Strategy, a high speed machining technique giving faster material removal rates and longer tool life. The full flute length of the tool is utilised, consistently engaging with the material, giving a constant cutting load, and moving in a smooth path to avoid sharp changes in direction which maintains the machine tool’s velocity. The feed rate can remain at the optimal value throughout the cycle. Cutting along as much of the flute length as possible distributes wear evenly along the entire flute length rather than just the tip, massively reducing tool vibration. The radial cut depth is also reduced to ensure a consistent cutting force, allowing cut material to escape from the flutes. Tool life is further extended, as most of the heat is removed in the chip.

“Waveform is new to some customers, and at first they are concerned that the technique will break the tools. But once we demonstrate how it works it really opens their eyes to what can be achieved.”

While Dave Clarke was working alone at the Product Proving Centre, he proved out around 30 customer products a month, which he expects to rise to around 70 with the recent appointment of a second senior applications engineer. “We’ve even helped customers win business because the information we’ve given them regarding cycle times and how they should manufacture the part means they can price the component more accurately when they’re quoting for a job.”

The service also involves the practical testing of new cutting tools when they are released. “We can test them at the centre and provide full data so that customers don’t have to have downtime on their own machines carrying out this type of R & D work.

The data is supplied to customers within 24 – 48 hours, in a test report detailing the cutting tools used, feeds and speeds, and recommendations. “If we’ve used Waveform, we’ll also include information about the improved material removal rates, and all other aspects of this high speed machining technique.”

As well as the Product Proving Centre and warehouse at High Wycombe, CIS also has distribution branches in Cambridgeshire and Portsmouth.

Edgecam’s Strategic Partnership Manager, Wesley Tonks says: “This service provided by the CIS Product Proving Centre gives customers the full knowledge of how they can optimally manufacture a specific component, which can have a significant, positive impact on their bottom line. And the fact that Edgecam is their sole CAD/CAM partner shows the software’s added value. Unbiased tool selection ensures that both technologies complement each other. The Centre finds the right tool for the right application, and Edgecam always makes sure it is used to its full capacity with the best possible toolpaths.”

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***Jump Design Group Selects NGC’s Global Enterprise Suite for Fashion PLM, Supply Chain Management and ERP***

13 October 2015

# CIMdata PLM Industry Summary

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NGC Software today announced that Jump Design Group, the company behind Tiana B, Marina, Onyx and Onyx Moda, is implementing NGC's Global Enterprise Suite (GES), a fully integrated suite of solutions for [fashion PLM](#), [Supply Chain Management](#) (SCM) and ERP. Jump Design Group will also deploy NGC's business intelligence (BI) offering from Qlikview.

Each application in NGC's GES works in unison as a single enterprise platform, giving Jump Design Group the advantages of working with a single company that has in-depth understanding of the fashion industry combined with best-of-breed apparel software solutions.

NGC's Global Enterprise Suite will enable Jump Design Group to continue to design, source and manufacture its exclusive lines with greater efficiency and speed to market. By improving workflows and productivity, Jump Design Group's 180+ employees can deliver an even higher level of service and collaborate with their customers to maximize sell-through and profitability.

Additionally, NGC's configurable BI dashboard will provide Jump Design Group with graphical and tabular displays of many key performance indicators. The BI dashboard enables easy evaluation of development progress, sales trends, production status, inventory positions and financial targets, leading to better decision-making and increased profitability.

"Jump Design Group's stylish, beautiful dresses are sold by top-tier retailers in the U.S. and around the world," said Mark Burstein, president of sales, marketing and product development, NGC. "The New York-based designer joins NGC's large family of flagship fashion brands and retailers in New York, and we're proud to be working with them."

With fast-turn manufacturing capabilities, Jump Design Group's 180-plus employees are dedicated to bringing up-to-the-minute women's trends from concept to market with lightning speed. Located in the heart of Manhattan's Fashion District, Jump Design Group's more than 35,000 square feet includes showrooms, in-house design center, a full production pattern making department and all support services for domestic and import production. Four miles away in Secaucus, New Jersey is QUICKTURN, Jump Design Group's 120,000 square-foot full service warehouse and distribution center, delivering on the Jump fast-turn promise. For more information, visit [Jump Design Group](#).

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## ***Modern Gourmet Foods Selects Centric Cloud Product Lifecycle Management***

13 October 2015

Modern Gourmet Foods (MGF), the fast-growing, international gourmet food and gift business, has selected Centric Cloud, a new cloud-based, [SaaS PLM](#) solution specifically designed with small businesses in mind. With an ultra-fast implementation, [Centric Cloud](#) is based on innovative technology and key industry learnings inspired by more than 100 PLM project implementations with leading fashion and consumer goods companies.

As a small business with a voracious appetite for growth, MGF will use Centric Cloud to optimize its creation of exceptional food-based gifts that are channel-specific to the mass retailers, specialty stores and club chains that sell its products. These gift offerings include products from brand partners such as Godiva, Constellation Brands, Hershey's, Starbucks and Mrs. Fields. "Product development is the hallmark of our company, so we work diligently with our customers and our brand partners to assure that we satisfy them and represent them well," says Nadeem Mumal, MGF's COO.

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“Our business is highly seasonal,” adds Mumal. Gift-giving holidays such as Christmas and Valentine’s Day put intense pressure on MGF to deliver products on time to meet tight market windows, he says. “We have a narrow field of competitors, but it is still a highly competitive business because shelf and display space at retail stores are limited.”

“Most of our customers have unique and stringent requirements that we must meet before we can even become an accepted supplier,” Mumal says, talking about MGF’s need to maintain both quality and cycle times. “And being seasonal makes our product development process even tougher. To complicate things further,” he states, “the food-based nature of the business means MGF has to provide and manage accurate nutritional labeling to meet regulatory requirements that vary by geography, both domestic and international.”

Before deciding to invest in PLM technology, MGF relied on spreadsheets and other off-the-shelf tools, unsuited to the demands of its fast-paced, complex product development processes. “We knew we needed a solution, but there really wasn’t much out there for a company of our size. We were looking for something innovative and that was both fast and simple to implement,” Mumal explains. “We are product people first and foremost, and we wanted a solution to fit us—not the other way around. This is one of the largest technology investments we’ve made, and it’s significant for a business of our size. We are glad that the same technology road-tested by huge companies is now available to us. Our analysis shows we’ll save significant time and money once fully implemented.”

MGF’s customers see large numbers of MGF products before choosing what they will offer in their stores. Additionally, the company must obtain approval from each brand represented in a combination gift package. “Centric Cloud will bring a lot of necessary discipline to our workflow processes,” Mumal says, “and will allow us to improve our sample development and approval process at the same time.”

Also on MGF’s list of improvements was time to market, which will be accelerated and better controlled using Centric Cloud. The planning process for each of MGF’s sales channels is unique in terms of timing, but there are also overlaps, according to Mumal. Centric Cloud will offer MGF a systematic way to view progress, milestones and to-dos as each product makes its way through development, assisting with control of costs and quality.

Centric Cloud will enable MGF to streamline its development processes, improve visibility to enable faster decision making, and improve understanding of business processes, leading to improvements across the board in workflows and efficiencies.

Chris Groves, president and CEO of Centric, says, “We are thrilled at the value that Modern Gourmet Foods and other small businesses already see in Centric’s newest solution. Our aim is to work with companies like MGF that share our attitude towards innovation, and to provide inclusive, inspired tools and key best practices previously limited to PLM larger-scale implementations. We want to help MGF dream big.”

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### ***Phison Electronics Improves Time to Market by 40 Percent with Cadence Voltus-Fi Custom Power Integrity Solution***

14 October 2015

Cadence Design Systems, Inc. today announced that Phison Electronics Corporation has used the Cadence® Voltus™-Fi Custom Power Integrity Solution to achieve silicon-proven accuracy on

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electromigration and IR-drop (EMIR) checks for its most advanced flash controller chips. With the Voltus-Fi Custom Power Integrity Solution, Phison reduced its tapeout schedule by eight weeks, improving time to market by 40 percent while also increasing overall product reliability.

The Voltus-Fi Custom Power Integrity Solution is a transistor-level EMIR tool that delivers foundry-certified SPICE-level accuracy in power signoff. For more information, please visit <http://www.cadence.com/products/mfg/voltus-fi/>.

The Phison design team delivered three proven silicon designs in 12 months by coupling the Voltus-Fi Custom Power Integrity Solution with the Virtuoso® custom design platform, which includes Cadence Spectre® Circuit Simulator and Quantus™ QRC Extraction Solution. The powerful, easy-to-use Cadence tool suite provided the design team with circuit simulation and layout EMIR analysis, debugging and fixing to improve overall design productivity.

"As we are moving to more advanced flash memory controllers, we have developed a unique circuit architecture that demonstrates our expertise in analog and custom memory IP to derive higher performance and larger capacity," said Aw Yong Chee Kong, president at Phison Electronics. "Using a low-power design methodology and maintaining power-grid integrity have become critical design requirements for signoff, especially at lower process nodes. By incorporating the Cadence Voltus-Fi Custom Power Integrity Solution into our design flow, Phison engineers have been able to find design weaknesses such as potential voltage drop and electromigration failures, preventing costly silicon re-spins."

"Analog mixed-signal designs inherently present challenges with EMIR analysis, and Voltus-Fi Custom Power Integrity Solution addresses these design areas," said Dr. Anirudh Devgan, senior vice president and general manager of the Digital and Signoff Group at Cadence. "By working very closely with Phison Electronics since we first launched Voltus-Fi last year, we've seen the company achieve better performance in simulation and visualization that enabled them to successfully deliver three reliable, silicon-proven designs with much shorter turnaround times."

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## ***Sungard AS Deploys Burststorm's Computer-Aided-Design (CAD) Application***

16 October 2015

Burststorm announced that Sungard® Availability Services™ (Sungard AS) is deploying Burststorm's Computer-Aided-Design (CAD) application to Sungard AS Channel Partners. The application allows partners to architect public, managed and private compute, storage, data center and network infrastructure and immediately see available Sungard product sets, locations and pricing for various solutions.

"The app makes the Partner SE's job easier and less frustrating," said Scott Goessling VP Cloud Services Burststorm. "Instead of sending multiple emails and visio diagrams then waiting for feedback or pricing, partners can now create models and scenarios in the app and immediately see and share results with their clients."

"Like our enterprise customers, Sungard's leaders recognize the advantages of using automation and technology to design, price and compare compute, storage, data center and network cloud services. Automating this process boosts sales conversion rates and enhances market success," said Brandon Abbey CEO, Burststorm.

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Sungard® Availability Services™ (Sungard AS) has more than 30 years of experience providing flexible availability services that help ensure organizations keep applications always on, always available. The company leverages its proven expertise to provide managed IT services, information availability consulting services, business continuity management software and disaster recovery services to clients in North America, Europe and India. Sungard AS helps customers improve the resiliency of their mission critical systems by designing, implementing and managing cost-effective solutions using people, process and technology to address enterprise IT availability needs. To learn more, visit <http://www.sungardas.com> or call 1-800-468-7483. Connect with us on Twitter @Sungardas, LinkedIn and Facebook.

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## ***Walmart Renews Agreement with Trace One for Private Label PLM***

14 October 2015

[Trace One](#) today announced that Walmart has renewed its agreement for Trace One PLM.

“Private Brand is a key driver of our growth, Trace One has provided a system and solution for our needs,” said Jack Pestello, Senior Vice President Walmart Private Brands.

“We are delighted and honored that Walmart has decided to extend its relationship with Trace One,” said Jerome Malavoy, CEO of Trace One. “It’s a testament to the scale of our platform and the benefits of our solution. We look forward to continued success with Walmart.”

Trace One connects all supply chain network stakeholders to accelerate product innovation while creating supply chain transparency. Trace One powers the world’s largest network for private label development with more than 20,000 companies in 110 countries developing over \$300B in annual products spend. The company has offices in Boston, Chicago, Paris, London, São Paulo, Lisbon, Madrid and Dusseldorf.

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## Product News

### ***ActivePDF Introduces CADConverter Powered by DocConverter***

14 October 2015

ActivePDF announced the release of a new PDF automation tool to batch conversions of CAD drawings, plans, and diagrams to PDF that addresses security requirements, regulations, and business mandates with 100% document fidelity.

CADConverter eliminates the complexity requirement of specialized applications to view CAD designs. Converting to PDF eliminates the requirement of the original CAD authoring application or 3rd party

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viewers. This delivers the ease of distribution, collaboration, and format consistency of sharing CAD designs.

"Converting documents to PDF is often part of a workflow or records management processes to ensure document controls," said Jay Schlarb, Chief Operating Officer. "ActivePDF mitigates the risks for organizations to ensure compliance, archiving and collaboration demands are met through improved document management by converting CAD designs to PDF."

CADConverter is integrated on the solid platform of ActivePDF DocConverter validates a sense of security to new prospects and clients. DocConverter is used by thousands of companies to convert business documents in high volume enterprise level environments for over 14+ years.

With CADConverter, powered by DocConverter allows you to control CAD to PDF conversion throughout the enterprise, while managing the processes from a single location. CADConverter integrates document conversion into existing applications or workflow processes by creating watched folders for simple drag-and-drop conversions. Using Configuration Manager, enables set up by scheduling a duration time to run conversions; and configure watermarks, add images or text to an output PDF document.

CADConverter creates high-quality PDF representations of CAD drawings that results in empowering all project team members, internal and external, to view, email, electronically approve, or locally print CAD drawings.

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## ***Altium Announces Standalone TASKING C Compiler for the BOSCH GTM-IP MCS v3.x***

15 October 2015

[Altium Limited](#) has announced that its C compiler for the new generation of Generic Timer Modules from BOSCH Semiconductors will be made available as a standalone TASKING toolset.

"Our ongoing partnership with BOSCH has allowed us to develop the most advanced C compilers available for the V3.x of the GTM-IP core," said Harm-André Verhoef, TASKING Product Manager at Altium. "We are more committed than ever to being the leading provider of development toolsets for advanced automotive applications, and this release reaffirms our commitment to provide the highest quality toolsets for engineers all around the world."

At the end of 2014, BOSCH Semiconductors announced the next generation of the GTM-IP microprocessor, which included enhanced programmable cores, additional programming instructions, and the development of a C compiler for efficient GTM programming and utilization.

During this development process, Altium worked closely with BOSCH to develop a dedicated C compiler, based on the TASKING Viper compiler technology. While this C compiler was originally released to select customers for test activities in the spring, it was later integrated into the TASKING toolsets for Renesas' RH850, Freescale's Power Architecture MPC5xxx and STMicroelectronics' Power Architecture SPC5xx.

With a strong market interest and customer demand, Altium has taken the development of their C compiler for the GTM-IP a step further and will release it as a standalone solution. This standalone version will be utilized by engineers that need to develop code for the GTM core, and can also be used in conjunction with other C compiler solutions for TriCore, RH850, or the Power Architecture toolset.

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Users of this standalone toolset will benefit from:

- Highly efficient code optimization techniques from the VX compiler technology found in other industry-leading TASKING toolsets.
- A fully integrated development environment from Eclipse that includes a simulator debugger, allowing developers to test code without hardware being available.
- Complete compatibility with other TASKING toolsets, allowing for ease of migration of existing application code developed for other microcontrollers.
- Continued Commitment for Automotive Applications

With the release of the standalone GTM C compiler, TASKING continues its commitment of being the leading compiler vendor for the development of advanced automotive applications like power train, body control, chassis control and safety critical applications incl. ADAS. This stand-alone release paves the way for greater code optimizations and integrations for the BOSCH GTM-IP that has yet to be matched by alternative vendors.

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## ***Canon makes 3D printing market debut with new resin-based technology***

13 October 2015

**Canon** has announced its first solo entry into the 3D printing market with its first major in-house developed 3D printer concept at the Canon EXPO Paris.

The resin-based lamination system has been designed to rival current 3D printing technologies with a faster production process than ever before and superior print strength.

Few details about the actual technology have been released so far but Canon says it is an entirely new process which is “not only suitable for rapid prototyping but rapid manufacturing as well”.

Making the announcement today, Canon stated: “With the highest level of precision in the industry we've reduced the need for time-consuming post-processing. Plus, higher modelling speeds and faster setting times mean you'll spend more time innovating and less time waiting.”

In a [launch video](#), Canon highlights the key areas it aims to address with this new technology; diversity of materials, durability, simplification of post processing and faster build times for advancing demands of 3D printing applications.

The machine is set to accelerate speeds and reduce costs at the same time offering users the opportunity to work with a wide range of general purpose resins and deliver a competitively smooth surface finish. The company has developed 3D Integrated Software, designed to seamlessly link 3D technologies and devices such as 3D scanners and allow easy handling of multiple formats of 3D data.

Canon is the second high-profile brand to enter the market following [HP's Multi Jet Fusion](#) storming onto the scene earlier this year boasting a breakthrough technology that promised to shake up the industry.

Though this may be its first proprietary technology offering, Canon is no stranger to the 3D printing industry. The 2D printing stalwart struck a [partnership with 3D Systems](#) to market, sell and support

its advanced manufacturing systems.

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## ***Comet Announces New Cloud-Based Gearbox Durability SimApp***

13 October 2015

Comet Solutions, Inc. announces a program in support of Gearbox design and manufacturing. The Comet Gearbox solution, consisting of a suite of solution-specific Gearbox SimApps, will provide automated processes integrating the broad spectrum of tools frequently used throughout Gearbox development: CAD, FEA, Multibody Dynamics, Gear/Bearing Simulation, and CFD in order to predict and optimize performance in the areas of Acoustics/Vibration/Dynamics, Durability/Reliability, Efficiency, and for management of cost and weight.

Developed in cooperation with ADET (Advanced Drivetrain Engineering and Technology) and utilizing SMT (Smart Manufacturing Technology) MASTA, Comet's new Gearbox Durability SimApp will provide gearbox OEM companies the means to perform basic durability evaluations of various gearbox *system* designs. By loading a specific duty-cycle into the Gearbox Durability SimApp, they will be able to quickly and efficiently run an automated durability analysis of the entire gearbox system, including the effects of housing, shaft and bearing deflections. Often, during early design stages, gearbox OEMs do not always have specific details regarding how customers will use their products in the field. The non-engineering staff will have the ability to demonstrate durability performance to prospective customers by entering custom duty cycles representative of actual field usage, independent of their internal engineering staff. This new SimApp allows quick turn-around time regarding product capabilities, empowering the gearbox OEM in the market, while also providing feedback to the engineering team for refinement of future designs.

Comet Vice President, Steve Brown comments: "This program reaffirms our commitment to the drivetrain industry in general and gearbox design and manufacturing specifically. Earlier we announced a working partnership with renowned gearbox authority, Brian Wilson and his company, Advanced Drivetrain Engineering & Technology (ADET). Today we are pleased to announce a strategic partnership with SMT, a leader in the gear and bearing simulation industry. We will be featuring the Gearbox Durability SimApp at GEAR EXPO 2015 with others to follow. Over the coming months, Comet will deliver a complete suite of Gearbox SimApps along with related products and services."

SMT Technical Director, Euan Woolley comments: "We are anticipating some exciting new avenues for our CAE software to be delivered with our new strategic partner Comet Solutions. Pairing both our expertise by hosting durability simulation features in the Gearbox Durability SimApp will open up powerful MASTA functionality to a wider user base of engineers and ultimately drive smarter decision making within the industry. We look forward to the possibilities this partnership will bring."

Powerful, web-deployable, and solution-specific, Comet SimApps allow product designers and engineers, who are not experts in the use of simulation tools, to safely and quickly evaluate designs using sophisticated simulations. With embedded expert knowledge and methods, SimApps remove the complexity of using general purpose CAE tools. Forward-thinking companies throughout Automotive, Aerospace, Off-Highway, Electronics and more, are today leveraging SimApps to globally enforce expert best practices while measurably increasing the impact of CAE investments on their business.

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## ***Enhanced Multiaxis, Dynamic Toolpath CNC Software from Mastercam***

12 October 2015

Mastercam/CNC Software offers the Mastercam X9 with Dynamic Motion improvements, Multiaxis enhancements, and many Design and System features to make your job easier. Dynamic Motion toolpaths follow a proprietary and sophisticated set of rules that take into consideration a broad data set. To create the most efficient cutting motion possible, Dynamic toolpaths calculate not only the area where metal will be removed; they also take into account the changing condition of the material throughout various stages of machining. Design features include Dynamic Xform which allows you to switch between gnomon manipulation and geometry manipulation mode at any time without having to reselect geometry. Solid Disassemble is a new Model Prep function that takes an assembly and lays each body out in a single pane. With Mastercam X9, the associativity between solids and toolpaths has been greatly improved. Now when bodies are edited, only the toolpaths directly affected by the change in the solid body are marked dirty. Multiaxis improvements include the new Multiaxis Link which ensures reposition moves between 2- through 5-axis operations are safe and collision-free. Multiaxis Link is an operation that takes a list of toolpath operations and a safety zone shape as input. Mastercam X9 introduces improved processing logic for advanced Multiaxis toolpaths. Select Multiaxis toolpaths now process in the Multi-Threading Manager, streamlining your 2- through 5-axis workflow experience.

Also available in Mastercam X9:

- Preview Toolpaths support for select Mill operations to see your results before closing the toolpath parameters dialog.
- Surface High Speed Hybrid now supports dedicated flat processing, making Hybrid even more intelligent and efficient.
- The efficiency of the 3D HST Rest Roughing Linking has been improved. The moves are closer to your model, eliminating costly excessive air motion.
- Mill Tooling introduces two new tool types, as well as changes to two existing tools.

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## ***Latest AVEVA Bocad release delivers increased productivity***

14 October 2015

AVEVA announced the release of new enhancements to its AVEVA Bocad product range for structural steel detailing software. AVEVA Bocad features a plate and bar nesting capability for more efficient planning and use of materials. An enhanced weld numbering and traceability feature provides efficient increased fabrication efficiency, design quality assurance and improved structural integrity maintenance. In addition elements of AVEVA Bocad can now be brought into AVEVA Marine production tools to fabricate detailed ship and offshore designs.

# CIMdata PLM Industry Summary

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‘The latest release of AVEVA Bocad realises the true integration between steelwork design, detailing and fabrication,’ said Richard Brotherton, Vice President of Sales – Fabricator, AVEVA. ‘It transforms our customers’ project workflows from the design office through fabrication to construction by enabling more efficient and extensive collaborative working. AVEVA Bocad not only improves this by providing a more tightly integrated digital workflow in structural steel, it also forms part of AVEVA’s Integrated Engineering & Design solution, increasing efficiency on projects of all sizes.’

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## ***Mentor Automotive announces Safety Certifiable Digital Instrument Cluster Solution***

14 October 2015

Mentor Graphics Corporation today announced the availability of the [Mentor® Automotive Safety Certifiable Digital Instrument Cluster](#) solution enabling safety-critical driver information to be displayed simultaneously with rich 3D graphics on a single instrument cluster display. The software architecture is implemented on a multi-core and even on single-core System-on-Chip, and features very fast boot time. This new solution addresses a key problem for the automotive OEMs: How to migrate safety-critical driver information to full-featured, graphically-rich digital instrument clusters and comply with safety standards including ISO 26262, without pushing up hardware or safety certification costs.

Automotive OEMs today design digital instrument clusters that include graphical information relating to essential warnings from the vehicle, such as icons notifying the driver of brake, engine or tire problems. The new solution, which is compatible with [safety-certified Nucleus® RTOS](#) and Mentor's [automotive-qualified Linux solutions](#), allows safety-critical and non-critical information to be displayed simultaneously on the same display, while maintaining isolation of safety-related functions to comply with ISO 26262 safety standards. The low-overhead isolation features of the solution are uniquely designed to enable the most efficient use of system resources to allow maximum performance of rich 3D graphics, together with complex and demanding features such as infotainment, ADAS and smartphone connectivity, all driven from the same SoC.

The solution enables car makers to reduce costs because the system is built on pre-certified components such as the [Nucleus® SafetyCert™ real-time operating system](#) (RTOS), resulting in minimization of the number of lines of new code to be safety certified. It reduces silicon cost because the solution runs on a single SoC, or even a single core, and makes efficient use of available CPU resources.

Mentor Automotive worked with Socionext Embedded Software Austria GmbH to integrate their CGI Studio development platform for automotive HMI with the Safety Certifiable Digital Instrument Cluster Solution. Reinhard Fuericht, general manager of Socionext's CGI Studio BU, said, "The capability of the Mentor Automotive platform is complemented by the high-end graphics and unique mixed safety-criticality features of CGI Studio, resulting in a seamless end-to-end solution for safety-certifiable HMI from tooling to display."

"Embedded software safety is one of the top requirements for vehicle systems designers, and our ability to merge safety-critical information from vehicle systems without compromising rich cluster graphics or functionality has been very well received by our customers," stated Rainer Oder, general manager, Mentor Automotive.

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## *Milling, Turning and Wire EDM Updates In Edgecam 2016 R1*

13 October 2015

The latest release of Edgecam's manufacturing software contains over 30 important new and enhanced items of CAD and CAM functionality for milling, turning, and wire EDM.

Turners now benefit from a new time-saving Pre-Finish Plunge option found in the Finishing Grooving cycle in Edgecam 2016 R1. A single plunge cut is generated at the centre of a groove feature, and the cycle then continues to finish the feature in the usual way. As this removes most of the material it does away with the need for a Rough Grooving cycle.

Following on from Waveform turning, the existing Rough Turn Cycle now features a new Ramp Cut strategy. This method is typically used for turning deep recesses with double-sided turning inserts...and extends tool life as the contact point on the insert is constantly changing, avoiding notching. The new strategy can be used with decreasing cut increments.

Five more milling CAM cycles have been upgraded to use images and help tooltips. Edgecam's Product Manager, Simon Mee says: "This helps users to quickly understand the command function and also presents a consistent user interface." The cycles are Parallel Lace, Pencil Mill, Face Mill, Flat Land Finishing, and Constant Cusp Finishing.

Enhancements have been made to Edgecam's 3D modelling software, EWS. A new 2D Offset Tool makes design creation easier. Common shapes and profiles are quickly duplicated and copied by an offset amount, reducing sketching time. More time is saved while creating constraints, as it is no longer necessary to exit the command – the dimension value is now immediately editable. And entities dynamically snap during the sketching phase. Also, an enhanced Arc command now includes a Set Diameter/Radius option, allowing multiple identical circles to be added to a sketch.

Edgecam 2016 R1 sees the completion of memory-handling developments for working with multiple solid models. "Similar to Parasolid, Inventor and Granite files, users will now see noticeable performance improvements when working with ACIS models. This is achieved by only storing a single solid model – when duplicates are required Edgecam creates references to the original geometry. Customers working with tombstone parts or sub-spindle lathes will reap significant benefits from this new functionality."

A number of significant upgrades have been made to the Operations function, which is used in particular by new or infrequent Edgecam programmers as a quick and easy way to develop complex toolpaths. Roughing, profiling, turning, and 4- and 5-axis commands have been enhanced, as well as the addition of a new chamfering operation.

The roughing operation is now stock-aware, and adopts the Waveform toolpath strategy. In addition, the rough turn operation now supports the B-axis...and the 4- and 5- axis operations can now directly pick on the solid model.

A function used for both milling and turning operations now saves additional time on the Update Stock command. "Through intelligent coding, the command no longer needs to process the graphical aspects of the machine set-up," says Simon Mee. "This means the Machine Simulator can focus on pure toolpath. Further performance improvements have been made to the simulator when dealing with large toolpaths such as roughing and 5-axis cycles. The simulator now groups multiple cuts intelligently, to provide an optimum performance benefit."

A further enhancement to the Automatic Feature Finding command means users can set a Partial Hole

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Angle when creating features. The value will control which hole features can be detected, and eventually machined. “This is particularly useful when the overall feature includes a hole or partial radius, and removes the need to manually create a hole feature or arc entity,” says Simon Mee.

New functionality has been added to the area of machine tool configuration – continuing the evolution of catering for milling machines with turning capabilities, Edgecam 2016 R1 has introduced full support for head-table machines, including support for Siemens, TNC and ISO programming languages.

Building on enhancements from previous releases, Edgecam 2016 R1 now offers extended collision detection and improved NC output for machining holes. Working in unison with the Update Fixture command, the Hole Cycle avoids collisions with fixtures by using clearance and retract values parameters. Simon Mee says this feature is especially beneficial when non-uniform clamps are used. “The cycle’s ‘link’ moves are minimised. As they’re calculated from the local fixture height, this reduces cycle time considerably. “As a result of this, the program output has been improved, as the specific retract value can be used in canned cycles.

Wire EDM users benefit from a new Smart Cycle machining command. This combines 2-axis and 4-axis wire machining into one function, by analysing the input geometry shape. It guarantees that the output code always matches the feature shape, without the user needing to do anything else.

Edgecam 2016 R1 also introduces a ‘Test For Separation / Slug Removal’ function into the wire EDM simulator. “Users can examine if slugs of material can become detached from the main stock body. The simulation test displays all separations, and shows which direction they’ll take. By knowing of any problems at this stage, users can decide whether to change the machining process. This is especially valuable on complex 3D shapes, where it’s not always obvious if separation is possible.”

Part of the Vero Software Group, Edgecam is a leading CAM solution providing productivity, reliability and flexibility. 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.

Vero is part of Hexagon (Nordic exchange: HEXA B), a leading global provider of design, measurement and visualisation technologies that enable customers to design, measure and position objects, and process and present data.

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## ***Prostep Announces 3D PDF Pro v2.1***

12 October 2015

PROSTEP's 3D PDF Pro 2.1 plugin for Adobe® Acrobat® is now available and can be downloaded by requesting a free trial today at <http://www.3dpdf.com/en/client-solution/request-a-free-trial.html>. The release of 3D PDF Pro 2.1 in October of 2015 includes many new and exciting features to help authors create animations more effectively within 3D PDF documents. These features bring static imagery to life by efficiently repurposing 3D CAD engineering data into interactive PDFs.

The capabilities of 3D PDF Pro have proven time and again to exceed customer expectations by reducing engineering overhead, loss of scrap, rework, and supplier response time.

3D PDF Pro now provides authors with new tools for making a part color change as the animation progresses or using color to highlight parts during a series of simulated activities. Creating animation is

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more intuitive for authors as they can now undo and redo multiple actions in order to correct mistakes. Drag-and-drop capability is now provided, allowing authors to move parts quickly and easily.

Some of the options on the 3D PDF Pro plugin menu have been changed to give authors easier access to specific description field options.

Finally, 3D PDF Pro 2.1 now provides additional options for limiting user control by disabling the 3D measuring tool.

To learn more about 3D PDF Pro, go to <http://www.pdfgenerator3d.com/en/client-solution.html>. To contact PROSTEP, email [infocenter\(at\)prostep.com](mailto:infocenter(at)prostep.com) and ask about custom templates or any other type of interactive 3D PDF publications for improved business practices.

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## ***Siemens' NX Nastran Now Available on Rescale On-Demand Cloud Environment***

14 October 2015

Siemens' **NX™ Nastran®** software is now available on Rescale, an on-demand, dynamically scalable cloud environment delivered through a Software as a Service (SaaS) model. The new joint solution, which integrates on-demand high-performance computing (HPC) hardware with the industry's leading finite element analysis (FEA) software, will be delivered by Rescale, Inc., a leading cloud simulation platform provider. Engineers can now seamlessly customize compute capacity, based on individual simulation requirements, to perform virtual product simulations. Rescale's web-based platform allows engineers to easily run numerous instances of NX Nastran, resulting in cost-effective large scale simulations that more thoroughly evaluate design options. This results in improved efficiency, product quality and faster time-to-market.

Using the Rescale platform, NX Nastran users can run hundreds of simulations simultaneously, leveraging a pay-per-use operating expense model. This can be a more cost effective option for new customers to quickly gain the benefits of NX Nastran, a product of Siemens' product lifecycle management (PLM) software business. Existing customers can significantly enhance flexibility by maintaining a basic level of in-house analysis capability for ongoing activities and leveraging the Rescale simulation platform on an hourly basis for peak demand. This new deployment option further expands the wide variety of platform choices available to Siemens PLM Software customers.

"NX Nastran in the cloud is a perfect solution for customers who want to avoid investing in in-house IT infrastructure for high-performance computing, or those who wish to augment their existing capabilities with additional capacity on demand," said Jim Rusk, Senior Vice President, Product Engineering Software, Siemens PLM Software. "The Rescale platform helps enhance the value of NX Nastran by enabling users to efficiently perform large-scale simulations in the cloud – including volume priced Designs of Experiment simulations – via a robust, secure, online service."

Rescale's simulation platform seamlessly integrates simulation software with a customizable HPC infrastructure. This helps engineers and scientists develop more innovative products by performing research and development much faster. Rescale, a Siemens PLM Software solutions partner, offers users numerous workflow options including executing one job at a time, running multiple jobs in parallel, and performing Designs of Experiment (DoE) simulations that execute hundreds of individual runs for varying parameters across the design space. Engineers run DoE simulations to better understand the effects of parameter variations on the robustness of their designs or to evaluate a broader design solution

space. The new on-demand platform makes large DoE simulations significantly more affordable and practical due to a volume pricing model that provides higher discounts with an increasing number of runs.

“We are excited to partner with Siemens PLM Software to provide NX Nastran on our simulation platform,” said Joris Poort, Chief Executive Officer, Rescale. “By offering flexible hourly pricing models for its leading CAE solution, Siemens PLM Software reinforces its position as a technological and thought leader in the industry.”

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## ***Trimble Launches New Version of its 4D Control Software for Professional Monitoring of Structural and Environmental Changes***

13 October 2015

Trimble introduced today the latest version of its deformation monitoring software—Trimble® 4D Control™ version 4.5. Trimble 4D Control software analyzes and reports on the condition and behavior of land and structures such as buildings, dams, mines and bridges. The latest software version features new add-on capabilities—Trimble eCognition® software integration, support for non-Trimble total stations and frequency domain analysis based on Fast Fourier Transform calculations—to better analyze complex data communicated from a broad range of sensors and enable better decision making.

The announcement was made at the International Symposium on Slope Stability in Open Pit Mining and Civil Engineering organized by the Southern African Institute of Mining and Metallurgy (SAIMM) and South African National Institute of Rock Engineering (SANIRE).

Trimble continues to expand the ways in which quantifying movement change can be automated using a range of geodetic, seismic and engineering sensors. The opportunities in automation play a significant part in effective project safety management in monitoring operations. Equally important is the analysis of complex data communicated via simple visual terms in order to understand the impacts of change.

"Trimble 4D Control can improve our customer's decision making process through real-time data acquisition and analysis with a focus on safety management," said Shawn Hilliard, business area manager of Trimble's Earth and Structural Monitoring Solutions. "The integration of Trimble 4D Control software with customer workflows significantly improves their ability to plan, forecast and predict maintenance needs."

The latest version 4.5 of Trimble 4D Control provides users with improved functionality for data processing, visualization and analysis in Trimble 4D Control Web. Capabilities include custom views, Webcams, 3D scenes and high-frequency charts to examine complex data in versatile views and present findings in a meaningful way.

Trimble 4D Control automates the interpretation of radar images by integrating the Trimble eCognition software. By streamlining the time for the analysis, Trimble 4D Control represents an effective change detection solution. Surface movements in a series of radar images are automatically detected and trigger alarms to the system operator.

In addition to supporting Trimble total stations with FineLock™ technology, Trimble 4D Control users can also add optional support for non-Trimble total stations to provide in-depth measurement and complete sensor management.

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Trimble 4D Control software can support optional Fast Fourier Transform (FFT) calculations to transform a real-time domain signal into a frequency domain representation. A modal analysis in the frequency domain detects how the characteristic of a physical object changes over time and can warn of impending failure.

Trimble 4D Control Room Web is a stand-alone Internet-based application that allows users to monitor information associated with one or more Trimble 4D Control version 4.5 installations at a glance. The information presented in Trimble 4D Control Room Web is published by an unlimited number of Trimble 4D Control projects.

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## **ZWSOFT releases ZWCAD Classic**

14 October 2015

**ZWSOFT** today released a new product, ZWCAD Classic, to celebrate the 15th birthday of its flagship product ZWCAD and reward all the customers and users for their support in the past years. ZWCAD has been warmly embraced by the market, thus ZWSOFT can focus its full energy and resources on improving its product. Again this time, ZWCAD Classic comes out with high compatibility, ease-of-use and powerful functionality to improve both productivity and cost-effectiveness.

"A great CAD software company should not only know what designers currently need, but also what they are going to need. A great piece of CAD software should not only be highly compatible, but also meet different designers' needs," said Daniel, ZWCAD Product Manager.

Fifteen years ago, ZWSOFT launched its very first generation CAD product ZWCAD, In the following years it released several updated versions. The previous products may have flaws and limited features and available languages, but ZWSOFT is a company that always aspires to improve and provide better solutions. In 2012, the second generation ZWCAD, a brand new CAD product with new core available in 15 languages, came out in lieu of ZWCAD and featured with many innovative functions and advanced tools. This year, ZWSOFT releases ZWCAD Classic to commemorate it. What's more, ZWSOFT is now preparing for something bigger, its third generation product which has the advantages derived from the past experience as well as innovative features of its current flagship product ZWCAD.

The past 15 years has also witnessed ZWSOFT's burgeoning global business. So far ZWCAD has accumulated more than 320,000 satisfied users around the world, permeating many industries from architecture, manufacturing, construction to shipping and many other segmented industries. ZWCAD has also gained many big clients and CAD experts that think highly of the product and are willing to introduce it to more users. The number of ZWCAD partners has also rocketed from a handful to today's over 200 in more than 80 countries. With blossoming ZWCAD global tours, ZWCAD has become a phenomenon and been embraced across the globe. Besides, ZWSOFT has successfully held 5 Global Partner Conferences aiming to push the development of CAD and its own .

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