

## Contents

<b>CIMdata News</b>	<b>2</b>
IBM Internet of Things—From Hype to Insight – A CIMdata Commentary	2
Qualcomm’s PLM Architect to Present at CIMdata’s PLM Road Map™ for the High Tech Electronics Community in Santa Clara, California in June	3
<b>Acquisition News</b>	<b>4</b>
ManTech Acquires Welkin to Expand High-End Solutions to Intelligence and Defense Communities	4
<b>Company News</b>	<b>5</b>
Accenture And Oracle Form New Business Group On Cloud	5
Agilent Technologies and Scion Instruments Agree to Enable Each Other’s Instruments in Their Chromatography Data Systems	6
Arena Adds Most New Customers in Company History to Close Record Quarter	6
Arena Solutions and Q Point Technology Partner to Offer Arena PLM with Q Point's Online Green Data Exchange	7
Capgemini to expand in North America with \$4B acquisition of iGate	7
PROSTEP Cooperates with ELYSIUM in Parametric Conversion	8
SimScale for Startups Program to Bring Engineering Simulation Capabilities to Small Businesses Worldwide through the Cloud	9
Wipro says automation can reduce its employee strength by 47,000	10
<b>Event News</b>	<b>11</b>
Altair Conference Will Focus on New Simulation Methods to Meet Challenges of Additive Manufacturing, Composites and Lightweighting in Automotive and Aerospace	11
Latest Software Solutions from 3D Systems to be Featured at EASTEC	12
Molding Expo: NCSIMUL Machine 9.2 brings realistic, immersive and high performance NC simulation to manufacturing	14
VERICUT software will be at the Paris Air Show	14
ZWSOFT GPC 2015: Discovering More Product and Business Value	15
<b>Financial News</b>	<b>16</b>
Agilent Technologies to Host Webcast of Second-Quarter Fiscal Year 2015 Financial Results Conference Call	16
Autodesk Extends Invitation to Join Financial Results Conference Call	16
Cadence Reports First Quarter 2015 Financial Results	16
Fujitsu says profit soars 24% on weak Yen	17
Geometric declares revenues of INR 11.05 Bn for FY15	18
Infosys Q4 Results Reported	19
ManTech Announces Financial Results for First Quarter of 2015	19
OpenText Reports Third Quarter Fiscal Year 2015 Financial Results	21
PTC Announces Second Quarter FY'15 Results	21
<b>Implementation Investments</b>	<b>22</b>
China Nuclear Power Engineering selects Siemens to enhance design efficiency	22
Cray and Altair Announce OEM Agreement	23
Furla Selects Centric Software Product Lifecycle Management	23
Innovation Management Made Simple at Beiersdorf	24
NUS enters a strategic collaboration with Agilent to facilitate research on Cardiovascular care	25

# CIMdata PLM Industry Summary

---

Special Vehicle Manufacturer Faymonville expands rollout of CIM DATABASE PLM _____	26
Russian Fashion Retailer MODIS Selects TUKAcad and TUKA3D for Fit and Product Development ____	27
Russian industrial leader takes AVEVA software _____	28

<b>Product News _____</b>	<b>28</b>
Altair to Introduce VisSim 9.0 at PCIM Europe 2015 in Nuremberg _____	28
Altium Pcb design tool removes barriers between ECAD/MCAD designers _____	29
Autodesk Accelerates the Future of Digital and Physical 3D Creation with Microsoft _____	29
CGS Packages Software for Omnichannel Business Environment _____	30
D-Wave Systems Uses ANSYS Engineering Simulation To Help Design Next Generation Of World's Most Advanced Quantum Computers _____	31
Delcam's PowerMILL Robot makes special effects extra special _____	32
Infor Announces Major Enhancements to Supply Chain Management _____	33
Laserdyne Announces Its New SmartPierce(TM) Software Feature for Creating a Clean Pierce Point That is the Same Diameter as the Cut Width _____	33
ModuleWorks releases 2015.04 CAD/CAM components _____	34
Pilot Helmet Flies High With WorkNC _____	35
SAP Innovation Management Fosters Creative Work Culture _____	36
Synopsys' New DesignWare Hybrid IP Prototyping Kits Accelerate IP Prototyping, Software Development and Integration _____	37
Waterjet CAD/CAM Software Streamlines Cutting Path Process _____	38

## CIMdata News

### ***IBM Internet of Things—From Hype to Insight – A CIMdata Commentary***

Key takeaways:

*Three transformational forces affect all industries—data (the what), cloud (the how), and engagement (the why)*

*An important value of the Internet of Things is found in gaining insight that leads to action*

*The Internet of Things generates a new scale of challenges—such as trusted devices and the need for security intelligence*

*IT can no longer add value programmatically—the IT economy is being shaped by a cognitive era*

CIMdata recently attended IBM Analytics Day on April 9th, 2015 at the Museum of Natural History in New York City, where IBM issued its latest press release that continues their journey with their creation of the Internet of Things unit (previously announced on March 31st, 2015). The announcement in New York further refined the IBM commitment to the Internet of Things (IoT) with the announcement of related software, services and an ecosystem of partners and clients. The roughly 250 attendees at the half-day private event included industry analysts, partners, and clients.

Bob Picciano, Senior Vice President of IBM Analytics, opened the discussion with the concept that transformational forces that are affecting all industries are also elevating the importance of the Internet of Things:

Data—the what

Cloud—the how

Engagement—the why

# CIMdata PLM Industry Summary

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Mr. Picciano stated that the “data is the element of being able to take digitization and add the scale of analytics” and the “need to compress the synapse” of the gathering and the use of the data. This was an apt analogy of the human information synapse to the synapse of information transfer and the transformation of information. IBM sees the new value proposition for IT to be braced to enter a cognitive era by being ready to make dirty data and large volumes of data actionable. The end game is in the insight that is gained.

The event showcased several real world examples of how IoT is being used to have direct impacts on business revenues and people in their day-to-day lives. Mr. David Kenney, CEO of the Weather Company, shared how real time weather data is enabling airlines to more effectively avoid turbulence, which results in significant fuel savings and also provides improved passenger comfort and safety. Another example of leveraging weather information was identifying the correlation of how weather impacts the purchasing patterns for the foods or even hair products. Mr. Kenney also cast a vision of how predictive accuracy using IoT regarding significant weather events can be related to known historical impacts—enabling better emergency preparedness and decision-making.

As the event focused predominantly on the Internet of Things and the resulting demand for big data analytics, the coverage of IoT with regards to product development was light, but not absent. IBM announced that a significant component of their IoT strategy involves their Product Line Engineering (PLE) offerings. The idea that systems of systems are empowered by designing IoT capabilities into products was prevalent in the use cases presented by Texas Instruments, Cummins, and DTE Energy, among several others. Reuse of requirements and configurations, refinement of design, and intelligent adaptation of offerings will rely heavily on data from IoT feedback mechanisms and the analytics that drive actions.

Wrapping up the event was a demonstration of the importance of security for IoT. In partnership with Texas Instruments, IBM is establishing tools, standards, and protocols for device-level protections and maintaining the importance of “trusted devices.” Security and the anonymizing of data to ensure that devices are protected from hacking and that the data collected “does no harm.” To demonstrate this partnership, IBM showed a real-time example of a parent monitoring a child’s walking route using a cell phone and IBM Bluemix.

The challenge for all companies embracing IoT will center on security and upon non-invasive data usage. The past few weeks have shown that there is a lot of attention focused on the hacking of automobiles through what should be innocuous and benign electronic components. More and more attention in product design will be on employing a multidisciplinary systems engineering perspective on how sensors and data gathering can have unintended results. IBM seems to understand this. With IBM’s new IoT business unit, with PLE, and with Bluemix the IBM story continues to evolve—we can all expect more details in the months to come.

 [Click here to return to Contents](#)

## ***Qualcomm’s PLM Architect to Present at CIMdata’s PLM Road Map™ for the High Tech Electronics Community in Santa Clara, California in June***

30 April 2015

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces that Qualcomm’s PLM Architect, Bob Wickens, will make a presentation at PLM Road Map™ for the High Tech Electronics (HTE) Community. The event will take place on June 16<sup>th</sup> at the Biltmore Hotel

# CIMdata PLM Industry Summary

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& Suites in Santa Clara, California.

In his presentation, “Divestitures—a New Trend in Redefining Businesses, What about the Assets,” Wickens will look at the impact of divestitures in the high tech industry. Divestitures are something we are experiencing in the ever-changing landscape of the high tech industry more often than before, a trend that marks a reversal of the extensive M&A activity of recent decades. The presentation will draw on Qualcomm’s experiences during a recent divestiture. Issues such as managing the data asset split, enterprise-licensing terms, and the how the re-deployment of enterprise PLM is best managed will be considered.

As a PLM architect for Qualcomm, Wickens is responsible for driving alignment and the execution of PLM strategy across the entire enterprise. Previously, he was the PLM Applications Manager supporting semi-conductor manufacturing.

PLM Road Map for the HTE Community is the must-attend event for HTE industry executives and PLM practitioners globally—providing independent education and a collaborative networking environment where ideas, trends, experiences, and relationships critical to the HTE industry germinate and take root. The theme for this event is “Innovating in a Nanosecond World: How PLM Makes Innovation and Collaboration for the HTE Industry Repeatable, Sustainable, and Scalable.”

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

 [Click here to return to Contents](#)

## Acquisition News

***ManTech Acquires Welkin to Expand High-End Solutions to Intelligence and Defense Communities***  
29 April 2015

ManTech International Corporation has completed the acquisition of Welkin Associates, Ltd., formerly a wholly-owned subsidiary of CSC, for \$34 million. ManTech will fund the acquisition from cash on hand. The company expects Welkin to contribute solid growth and operating margins and to be accretive to ManTech's earnings per share in 2015.

Headquartered in Chantilly, Virginia, and founded in 1988, Welkin has built a strong, multi-decade legacy of success with its customers across the Intelligence Community and Department of Defense (DoD). Welkin delivers mission-centric services in high-end systems engineering and advanced national security technology and business services. Welkin's contributions to its customers are notable for technical depth and criticality for mission execution.

The acquisition strategically positions ManTech to pursue large engineering and support opportunities throughout the Intelligence Community and DoD. The acquisition brings highly skilled employees, virtually all directly supporting intelligence missions. Welkin will become part of ManTech's Mission, Cyber & Intelligence Solutions Group, led by L. William Varner.

"We are pleased to welcome the extraordinary people of Welkin to the ManTech family," said ManTech Chairman and Chief Executive Officer George J. Pedersen. "This acquisition is consistent with ManTech's strategy to expand and strengthen our presence in high-end intelligence markets. ManTech is a solution and mission-driven organization that will benefit greatly from Welkin's market-leading capabilities and focus on developing new ways to help our customers solve people, process, and technology challenges in space and intelligence community markets."

# CIMdata PLM Industry Summary

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"Welkin looks forward to joining ManTech to leverage its spectrum of solutions for existing and new customers," said Al Smith, Vice President and General Manager of Welkin Associates. "We are a natural fit with ManTech and its Intelligence Community focus and commitment to mission. We look forward to a seamless transition of our existing work and aggressive pursuit of new opportunities."

## About ManTech International Corporation

ManTech is a leading provider of innovative technologies and solutions for mission-critical national security programs for the Intelligence Community; the Departments of Defense, State, Homeland Security, Energy, Veterans Affairs, and Justice, including the Federal Bureau of Investigation; the health and space communities; and other U.S. federal government customers. We provide support to critical national security programs for approximately 50 federal agencies through more than 1,000 current contracts. ManTech's expertise includes cyber security; command, control, communications, computers, intelligence, surveillance, and reconnaissance (C4ISR) solutions and services; information technology (IT) modernization and sustainment; intelligence/counter-intelligence solutions and support; systems engineering; healthcare analytics and IT; global logistics support; test and evaluation; and environmental, range, and sustainability services. ManTech supports major national missions, such as military readiness and wellness, terrorist threat detection, information security and border protection. Additional information on ManTech can be found at [www.mantech.com](http://www.mantech.com).

 [Click here to return to Contents](#)

## Company News

### ***Accenture And Oracle Form New Business Group On Cloud***

27 April 2015

Accenture and Oracle have launched a new business group to jointly help customers embrace the cloud to achieve their digital transformation goals.

Accenture and Oracle will deliver industry-specific solutions built on the Oracle Cloud to help clients realize the benefits of the cloud faster and with reduced risk.

The Accenture Oracle Business Group brings together the technology, skills and experience from each company to offer businesses the ability to implement cloud solutions quicker and easier than previously possible.

The Accenture Oracle Business Group simplifies and streamlines the buying process for Accenture solutions based on Oracle Cloud technologies. As a result, customers can more nimbly react to changing business and economic conditions by leveraging end-to-end solutions that address their specific business and industry requirements. The new group will bring breakthrough solutions to market across a range of industries, with an initial focus on the public, financial and hospitality services sectors.

Specialists from both Accenture and Oracle will collaborate to identify business requirements, develop solutions, execute go-to-market strategies, and help implement new cloud solutions for clients to achieve their digital transformation goals.

 [Click here to return to Contents](#)

## ***Agilent Technologies and Scion Instruments Agree to Enable Each Other's Instruments in Their Chromatography Data Systems***

27 April 2015

Agilent Technologies Inc. and Scion Instruments announced a gas chromatography instrument control agreement. This exchange agreement provides customers the freedom to operate instruments from both manufacturers in each company's chromatography data systems.

The companies will exchange development documentation and royalty-free licenses of driver software for the integration of each other's GC instruments into their respective chromatography data systems. With the development of these drivers, GC systems from either manufacturer will be integrated into Agilent's OpenLAB CDS EZChrom Edition and Scion's CompassCDS chromatography data systems.

"Agilent pursues an open-systems approach to laboratory informatics, preserving our customers' investment in instrumentation, workflows, operating procedures, data and knowledge," said John Sadler, Agilent vice president and general manager of software and informatics. "We are continuously expanding OpenLAB CDS multivendor instrument control capabilities in collaboration with other analytical instrument manufacturers and are working to standardize analytical instrument control across data systems, resulting in the best-working and best-tested software for our mutual customers."

 [Click here to return to Contents](#)

## ***Arena Adds Most New Customers in Company History to Close Record Quarter***

28 April 2015

Arena Solutions, today announced that Q1 2015 broke company records again for total subscriptions, an achievement fueled in part by the largest number of new customer subscriptions in the company's history.

New customer subscriptions grew 33% in Q1 2015 over the same period in 2014. Total subscription growth also continues to be strong, increasing at a double digit pace. Nearly one-third of Arena's existing customer base added new products, new seats – or both – during Q1 2015.

To accommodate this rapid growth, Arena has increased the size of its sales organization by 85 percent in the past three months. The company also recently moved to new headquarters in Foster City, Calif.

"Over the past two years, we've introduced new modules like [Demand](#), [Scribe](#) and [Quality](#) that have been extremely well received by our customers and, in particular, by the largest enterprise customers," said Craig Livingston, CEO of Arena. "We provide the functionality that global enterprises need in a cloud solution that's more flexible, easier to connect to suppliers and less costly."

"As a result, we're increasingly winning big deals against traditional PLM vendors, and our pipeline is growing fast – in fact, it's five times larger than it was just one year ago," Livingston added. "We continue to hire a large number of senior sales staff at a brisk pace to take full advantage of the expanding pipeline. With interest spiking in more and more verticals through the Internet of Things phenomena, the opportunity for cloud PLM is growing exponentially. There's no one better prepared to meet that demand than Arena."

 [Click here to return to Contents](#)

## ***Arena Solutions and Q Point Technology Partner to Offer Arena PLM with Q Point's Online Green Data Exchange***

28 April 2015

Arena Solutions, today announced a strategic partnership with Q Point Technology to offer Q Point's Green Data Exchange (GDX) to Arena PLM users. GDX is the largest online exchange for compliance data, allowing companies to obtain RoHS, REACH, substance disclosure, and Conflict Minerals information from more than 10,000 suppliers worldwide.

"Compliance is a complex challenge that is only becoming more difficult for tech and medical device companies, as national and international governments alike, continue to add more regulations to adhere to," said Steve Chalgren, vice president of product management and strategy for Arena. "We're excited about this partnership with Q Point Technology, which gives our PLM community deep access to their rich compliance analysis solution."

Q Point's Green Data Exchange enables customers to:

- Evaluate the compliance status of a product or sub-assembly to a regulation
- Know, at-a-glance, if a part is compliant and view all supporting supplier declaration data
- Communicate with suppliers to request information for any commodity type, including custom parts
- Invite any supplier to register for a free GDX account
- Generate a compliance report for a customer
- Manage a risk assessment program by assigning risk factors at a supplier part level

"With Green Data Exchange," said Bill Robertson, CEO at Q Point, "Arena PLM users can evaluate the compliance of any BOM to regulations such as RoHS, REACH, and Conflict Minerals. By providing a system that allows companies to connect with their suppliers, organizations are able to reduce their compliance costs and stay up-to-date with ever changing regulations."

[Click here to return to Contents](#)

## ***Capgemini to expand in North America with \$4B acquisition of iGate***

27 April 2015

French IT services company Capgemini is to acquire iGate in the U.S. for US\$4.0 billion, in a bid to expand its presence in the North American market.

The deal will boost Capgemini's revenue from North America by 33 percent to \$4 billion, making the region the first to account for 30 percent of its revenue.

The iGate acquisition also brings to Capgemini additional expertise in application and infrastructure services, business process outsourcing and engineering services. Capgemini also gets iGate's clients, including key customers such as General Electric and Royal Bank of Canada, to whom it can now cross-

# CIMdata PLM Industry Summary

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sell its own services.

After the acquisition, the merged entity will have an estimated combined revenue of €12.5 billion (\$13.6 billion) in 2015, an operating margin above 10 percent and around 190,000 employees. About 50,000 of these employees will be focused on North American clients.

iGate had revenue of \$1.3 billion in 2014, of which 79 percent came from North America.

Both Capgemini and iGate in New Jersey have offshore delivery from low-cost locations like India.

The deal will be financed through a combination of Capgemini's own cash, debt and an equity portion that will not dilute its share capital by more than 6 percent.

The boards of both companies have approved the merger. It has also been approved in writing by a majority of iGate shareholders. The transaction is expected to close in the second half of 2015, subject to customary closing conditions such as regulatory approvals.

 [Click here to return to Contents](#)

## ***PROSTEP Cooperates with ELYSIUM in Parametric Conversion***

28 April 2015

PROSTEP AG of Darmstadt has signed a partnership agreement with the Japanese specialist for CAD-interoperability, ELYSIUM. The target of the partnership is, in addition to geometry, providing the users with the data translation and transfer service OpenDESC.com with the translation of the features and parametric information of their CAD models. Thus, for the first time, it will be possible to process translated data in all current CAD systems and return them to the production system using the same editing possibilities.

The offer is destined for companies who, in Joint Ventures or during globally distributed development projects, cooperate with partners using different CAD systems. It is especially beneficial for small suppliers that have to achieve increasing requirements on data quality but are unable to invest in expensive conversion tools. PROSTEP will completely integrate the tools of ELYSIUM in OpenDESC.com to largely automate the translation of features and parametric information and, thus, be able to offer the service at the lowest-possible cost with the highest level functionality for fully parametric models for downstream editability.

PROSTEP's long-term experience with data translation and transfer, as well as their profound knowledge in process requirements in the automotive industry, have been important reasons for ELYSIUM to decide for a partnership with the IT software and consulting company of Darmstadt: "The conversion of features and parametric information is a highly complex issue," says Ken Tashiro, Vice President and Chief Operating Officer (COO) of the Elysium. "PROSTEP has the necessary translation expertise with much experience and, thus, can make optimum use of the capability of our solutions for the user's benefit."

Through the cooperation with ELYSIUM, PROSTEP enlarges their service range with technology that leading automobile manufacturers already use successfully for their data migration, and for the first time, provide it for use in running development projects. "We have observed the market very carefully and, for a long time, have searched for a suitable solution. The tools of ELYSIUM are the only ones fulfilling our process requirements," underlines Dr. Josip Stjepandic, Head of Business Unit 3D Product Creation at PROSTEP.

 [Click here to return to Contents](#)

## ***SimScale for Startups Program to Bring Engineering Simulation Capabilities to Small Businesses Worldwide through the Cloud***

28 April 2015

SimScale today announced the SimScale for Startups Program for startup companies to develop their products better, faster and cheaper. Startup companies now have a way to get started with Computer Aided Engineering (CAE) simulation without making a commitment for thirty to fifty thousand dollars, which usually is cost-prohibitive. The announcement was made as part of a new startup campaign, in which SimScale also launched new online advertising and startup training programs.

“The startups that we are working with are creating a wide range of projects, including structural mechanics and thermodynamics designs.”

Startup companies will be eligible to receive full access to the SimScale simulation platform, along with one-on-one support for a complimentary startup kickoff project from a SimScale consultant, and ongoing professional support from the SimScale team, all for 170 Euros per month. Additionally, startups will receive SimScale Professional Training to provide startups with hands-on learning to help new users get up and running to optimize the technology on their projects as quickly as possible. The kickoff project and professional training is a value of 750 Euros, but that is waived for startups that sign a one year contract prior to June 30, 2015.

“Engineering simulation is now available not just for the largest companies, but for startups. CAE simulation can help startups bring their designs to reality more quickly than ever before,” said David Heiny, managing director of SimScale. “The startups that we are working with are creating a wide range of projects, including structural mechanics and thermodynamics designs.”

The SimScale simulation platform can help startup companies in several ways:

- Simple access to a powerful CAE platform through a web browser, without a need for any additional hardware or software.
- Expand and speed up product design and development capabilities, bringing products to market more quickly.
- Deliver projects more quickly to clients, adding the potential to increase their revenue from additional new business projects.
- Providing skills and training for engineers and designers on CAE software, enhancing the capabilities of small businesses.

Since launching its 3D engineering simulation platform in 2013, SimScale has helped dozens of new businesses with their CAE needs. Among the new startups working with SimScale’s simulation platform are:

# CIMdata PLM Industry Summary

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FRED Consultancy: an engineering consulting firm in Wetteren, Belgium that provides creative engineering support to companies developing all kinds of products. They perform research, feasibility studies, concept generation and physics calculations, as well as simulations (structural, fluid dynamics, thermodynamics) using the SimScale platform for rapid prototyping.

Custom Machines: an engineering design consultancy in Ballarat, Australia, that specializes in machine design for a broad range of industries including mining, rolling stock, confectionery, agriculture and manufacturing. For a recent project, the SimScale platform was used to optimize the design of a custom-made load cell.

SimScale is planning new features for users to engage and share their projects and interact with each other. The SimScale project library, already with more than 100 projects available, is a repository for users to look at projects that have already been published, and perhaps find inspiration for their own projects.

SimScale now has more than 20,000 users that are simulating online, and is working with universities in programs to help prepare engineering students with the skills to succeed in a competitive global market.

 [Click here to return to Contents](#)

## ***Wipro says automation can reduce its employee strength by 47,000***

29 April 2015

Wipro, India's third-largest IT services firm, expects its headcount to come down by about 47,000 in the next three years as it stresses on automation, artificial intelligence and digital services.

According to a source, Wipro CEO T K Kurien, at an analyst event in Frankfurt (Germany) on Tuesday, said that as [the firm](#) moves its automation focus to applications from services, there will be reduction in employee strength.

"In the same breath, the CEO made it clear that the focus is not on eliminating positions, but gaining greater efficiency", the source added.

An industry insider believes that Wipro with its increased focus on automation, artificial intelligence (AI) and digital services may bring down 30 per cent of its headcount in the next three years.

As of March 31, 2015, the Bangalore-based company's total workforce stood at 158,217.

Kurien sees the next big wave of growth for the software vendor will come from BPO automation.

Besides, [Wipro](#) expects digital services to be among its top three service lines in the next 3 years.

The software services major posted a net profit of Rs 2,286.5 crore in January-March 2015, 2.1 per cent higher than Rs 2,239.1 crore a year ago, in line with expectations.

This was helped by robust momentum in infrastructure and healthcare services.

Wipro, which gets a dominant chunk of its revenues from IT, saw its topline growing 3.9 per cent to Rs 12,171.4 crore for the March quarter from Rs 11,703.6 crore in the year-ago period.

Revenues from IT services business increased six per cent year-on-year to Rs 11,240 crore, up 3.2 per cent, in the reported quarter.

 [Click here to return to Contents](#)

## Event News

### ***Altair Conference Will Focus on New Simulation Methods to Meet Challenges of Additive Manufacturing, Composites and Lightweighting in Automotive and Aerospace***

30 April 2015

Hundreds of engineers and researchers will examine new techniques for simulating vehicle design with composites and optimizing designs for additive manufacturing, lightweight vehicles and aircraft as they participate in the [2015 Americas Altair Technology Conference \(ATC\)](#) in Dearborn, Mich., May 5-7. ATC is the foremost annual event for engineering professionals and top-level industry leaders in the arenas of product design, advanced manufacturing, applied physics and high-performance computing.

Complimentary online registration is available to Altair's design and engineering community of clients and partners at [www.altairatc.com/registernow](http://www.altairatc.com/registernow).

A wide-ranging series of key research papers will be presented at the conference, each of which responds to emerging trends and capabilities in manufacturing and computer simulation. Among the many excellent presentations are:

**Structural Component Design Optimization for Additive Manufacture:** Professor in Practice, University of Texas at Arlington, Consulting Engineer, Optimal Structures, LLC, Robert M. Taylor of Optimal Structures will demonstrate how additive manufacturing removes many of the constraints on product design, enabling all types of products to be much more efficiently produced and as much as 30 percent lighter. He will explain how the advanced capabilities of Altair HyperWorks® tools for designing structural topologies to minimize weight while maximizing performance.

**Cutting-Edge Optimization Methods for the Aerospace Industry:** Structural Analysis Engineer David Bowen of Boeing will describe how the new MultiModel Optimization capabilities in Altair's OptiStruct® software can overcome the problems associated with attempting to optimize structures and components across multiple configurations. The result is a common component optimization process.

**Forming Simulation of Woven Composite Fibers and Its Influence on Crash Performance:** Altair Senior Director of Industry Solutions Subir Roy will show how simulation of composite plies made from woven fibers can be carried out with Altair's RADIOSS® solver, mapping the variance in fiber angles and translating those differences into crash-performance results.

**Pedestrian-Impact Simulation Process with HyperWorks:** Crash Safety Engineer Youn Park, from Ford Motor Company, discusses how the HyperWorks software suite can be applied to carry out multiple analyses with a large number of target points for pedestrian impact safety, providing a much more efficient approach to the concern than manual or semi-automatic methods.

Breakout sessions will delve further into such issues as lead-time reduction, process automation, performance optimization and lightweight design.

# CIMdata PLM Industry Summary

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These presentations will be kicked-off by keynote remarks from two automotive industry leaders:

Mike Whitens, Director, Vehicle and Enterprise Science, Research, Ford Motor Company

Kevin Kerrigan, Senior Vice President, Automotive Office, Michigan Economic Development Corporation

Other thought leaders offering their perspectives on design and optimization in the aerospace and defense industries at the conference are:

Franck Mouriaux, General Manager, Structures, RUAG Space

Ken Dudley, Senior Researcher, NASA Langley Research Center

Stewart (Denny) Moore, Principal Engineer, Applied Mechanics, General Dynamics/Electric Boat

Altair Chairman and CEO, James R. Scapa, will highlight Altair's plans and innovations for continuing to advance the use of simulation in the design of products, packaging, and systems for businesses around the world.

"Discussion emerging from the great span of topics offered at the ATC makes this premier conference exceptionally valuable to designers and engineers," Scapa said. "The conference provides solutions for those who are attempting to manage innovation challenges in the fields of transportation, aerospace, architecture, electronics, scientific research and many other fields where simulation-driven design, data analysis and optimization are critical. Our goal for the ATC conference series is to support the professional engineering community discover news ways to overcome conventional barriers to design and manufacturing leveraging simulation to create stronger and lighter products that can be manufactured in new ways."

Altair Technology Conferences are scheduled [across the globe](#) to share solutions for some of the most complex problems in engineering, sciences and business analytics. The events serve as a showcase for hundreds of user-led case studies that illustrate innovative ways to employ simulation for better design.

At ATC, participants especially value the opportunity to network with colleagues and thought leaders to exchange views on industry issues. Networking events at the Americas ATC will include the welcome reception on May 5 and an after-hours social gathering on May 6.

Registration is available online at [www.altairatc.com/registernow](http://www.altairatc.com/registernow).

 [Click here to return to Contents](#)

## ***Latest Software Solutions from 3D Systems to be Featured at EASTEC***

28 April 2015

3D Systems will demonstrate the latest versions of its industry leading software solutions – CimatronE, GibbsCAM and Geomagic – at the EASTEC trade show in West Springfield, MA, May 12-14, 2015. With over 500 exhibitors, EASTEC is an event dedicated to keeping northeast manufacturers

# CIMdata PLM Industry Summary

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competitive.

3D Systems enables an integrated 3D digital thread covering all aspects of design to fabrication by providing a comprehensive suite of software solutions that cover everything from scanning, parts and tool design, milling, turning and MTM manufacturing, to 3D printing and inspection.

When it comes to CAM for Production software, industry-leading **GibbsCAM 2015** is now powered by its new Universal Kinematic Machine (UKM) engine, developed to enable greater accuracy in toolpath verification and machine simulation, while retaining its iconic and well-known shop-friendly interface.

GibbsCAM UKM is a complete reengineering of the CAM engine and how it relates to machine definitions and machine tools, blurring the line between the definition of mills and lathes. GibbsCAM UKM was created from the ground up with no limitations so it can handle any number of axes in any direction, with multiple tools cutting simultaneously. It was designed to enable users to program and accurately simulate virtually any machine today - even machines that haven't been invented yet!

Dramatic improvements to rendering and Machine Simulation such as the dynamic 3D viewing of tools and tool-holders in the tool dialog provide the most accurate simulation available, giving customers the confidence that what they see on the computer screen is what will happen at the machine. An entire new category of tooling has also been added called Intermediate Tooling. Also new is integration with Sandvik Coromant's Adveon Tool Library.

In addition, customers will be able to program and simulate the most complex machines on the market, including machines from Bumotec, Citizen, DMG MORI, Doosan, Matsuura, Mazak, Nakamura-Tome, Okuma, Star, Tornos, Willemin-Macodel, and many others.

When it comes to integrated CAD/CAM software for mold, tool and die makers, the latest release of **CimatronE 12**, delivers significant productivity improvements across the board. The new and enhanced tools can dramatically ramp up productivity and minimize outlays in the design and NC programming of molds, dies and discrete parts.

The highly-regarded NC Programming process manager gets a more customizable setup process, the ability to cut calculation time by setting the machining head before programming, and post programming visualization.

VoluMill, the integrated Ultra-high performance toolpath brings a virtual revolution to roughing speeds with typical time savings of over 50%! Together with the new Rest Milling procedure and an accurate visualization of remaining stock at any stage - a safer, more robust process can now be attained with smoother machine motion, reduced vibrations and jerks, better surface quality and longer tool and machine life.

Significant improvements have also been achieved regarding insert design, motion simulation and 3D cooling analysis. CimatronE 12 also offers new cooling design and analysis capabilities that support both traditionally drilled cooling channels as well as the conformal cooling channels that are typically manufactured using 3D printing technologies. The AMF (Additive Manufacturing File) format - a new standard for converting 3D models into digital files is also supported.

A powerful new EDM (Electrical Discharge Machining) setup can fully control the burning process of any type of machine and delivers an impressive ROI by slashing machine supervision and project completion time while operating 100% error-free!

3D Systems **Geomagic** software solutions and scanning hardware enable a complete 3D 'Digital

# CIMdata PLM Industry Summary

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Thread' by delivering integrated tools for scanning of physical objects direct to CAD, design, sculpting and engineering of new parts ready for manufacture through both traditional and additive methods. Geomagic Control delivers intelligent and automated 3D scanning and inspection of production parts for measured accuracy to the design data. Geomagic software solutions are tuned to work within existing CAD/CAM and manufacturing workflows as well as delivering the unique Touch haptic design tools.

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## ***Molding Expo: NCSIMUL Machine 9.2 brings realistic, immersive and high performance NC simulation to manufacturing***

27 April 2015

SPRING Technologies, vendor of solutions that maximize the productivity of NC machine tools, will be attending Moulding Expo, in Stuttgart, from May 5 to 8. The program on booth A77, Hall 4 will include demonstrations of the main modules in the NCSIMUL SOLUTIONS range, notably the latest versions of NCSIMUL Machine, NCSIMUL Tool and NCSIMUL DNC.

"Our flexible software solutions increase the productivity of NC machining centers by optimizing machining processes", explains Olivier Bellaton, Managing Director of SPRING Technologies. "They offer the possibility of simulating production processes, thus minimizing manufacturing deficits in advance which would otherwise have caused damage to the machine and unnecessary costs."

### **Automation and safety**

These are the key words that underlie the product demonstrations scheduled for the SPRING Technologies booth. These include:

- NCSIMUL Machine 9.2 for machining simulation, with automated information in real time, new features in the composites module and enhanced user experience.

NC programs can be checked with NCSIMUL Machine 9.2 in three steps: NC program analysis, material layup simulation and result analysis. Thus SPRING provides companies a higher level of automation, more safety and mobility from development to production.

- NCSIMUL Tool 2.6 for cutting tool management, using data imported via the Cloud and with upgraded computation power. Users benefit from extensive management features for professional cutting tools. It also includes a pre-configured tool database according to DIN4000. It allows the global management of tool data such as 3D models, components, assemblies, cutting data and part lists.

- NCSIMUL DNC 8.2 to connect NC machines with a higher level of automation and tighter integration; a step further towards a lean digital process. In addition NCSIMUL DNC displays the machine status in real time. As a result, the user will receive the latest information about performance, operational failure, downtime or setups.

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## ***VERICUT software will be at the Paris Air Show***

28 April 2015

[CGTech](#) will showcase its expanded range of software applications for the aerospace industry on stand Hall 2B, Stand F172, Booth 2, at the Paris Air Show, Le Bourget, Paris on June 15-19, 2015.

# CIMdata PLM Industry Summary

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CGTech's VERICUT is widely used in aerospace and defense to improve the efficiency of all types of CNC machine tools. VERICUT is CNC machine simulation, verification, and optimization software that enables users to eliminate the process of manually proving-out NC programs. VERICUT simulates all types of CNC machining, including multi axis milling, drilling and trimming of composite parts, water jet cutting, robotic machining and mill/turn centers. VERICUT runs standalone, but can also be integrated with leading CAM systems used in aerospace including Dassault Systemes CATIA, Siemens PLM NX, Delcam PowerMill, and Open Mind HyperMill.

Aerospace applications for CNC machine tool suppliers including DMG MORI, Mazak, Starrag, GROB, CMS, and Hermle will be featured.

Throughout the show, CGTech will be demonstrating VERICUT composite applications: VERICUT Composite Programming (VCP) and VERICUT Composite Simulation (VCS).

CGTech will feature projects that highlight the use of off-line NC programming and simulation software for automated fiber placement (AFP) machines and automated tape laying (ATL) machines including robot cells. VERICUT composites applications are machine independent and machines from composites machinery suppliers, including Electroimpact and mTorres, will be featured.

VERICUT Drilling and Fastening (VDAF) is software for simulating and programming auto-drilling and fastening machines. These machines are used to assemble large aero-structures and it is essential to avoid programming errors and collisions at such a late stage in the aircraft manufacturing process. VERICUT allows the user to program drilling and fastener assembly operations in a virtual machine tool environment and provides simulation to check for a variety of potentially disastrous error conditions. VERICUT software VDAF interfaces to leading CAD/CAM/PLM systems such as Dassault Systemes CATIA and Siemens NX, and is independent of the assembly machine manufacturer.

 [Click here to return to Contents](#)

## ***ZWSOFT GPC 2015: Discovering More Product and Business Value***

30 April 2015

ZWSOFT drew a satisfactory conclusion to the conference part of its 2015 Global Partner Conference (GPC) in applause and cheers, where ZWSOFT's company strategy, Expert Perspectives on CAD industry and future product and business strategies of ZWCAD and ZW3D were shared. In the Free Talk session, ZWSOFT partners further discussed to reach agreement upon the future roadmap of product and business, and the unforgettable night ended with ZWSOFT's big party.

Every year's Free Talk aims to provide partners a free talking space for product and business. This year is not exceptional and even more practical. For ZWCAD, to cope with challenges of industry giants in the [CAD Software](#), its marketing strategy, policy upgrades and local marketing tactics are fully discussed in a bid to bring up a more prosperous future. Thriving on the user base of ZWCAD, the mechanical, architecture and mobile CAD app have further been proved by some partners' sales performance. During the discussion, these partners shared positive feedback from users, believing these 3D CAD products are also bringing unparalleled advantage to ZWCAD business.

While in another hot field, [3D CAD](#), partners were eager to explore how to market and extend business with ZW3D. Applications of ZW3D are believed to be very advantageous to attract more customers. The product value of ZW3D 2015, the latest version of ZW3D, was also thoroughly demonstrated among partners.

 [Click here to return to Contents](#)

## Financial News

### ***Agilent Technologies to Host Webcast of Second-Quarter Fiscal Year 2015 Financial Results Conference Call***

01 May 2015

Agilent Technologies Inc. will release second-quarter fiscal 2015 financial results after the stock market closes on May 18. The company will host a live webcast of its investor conference call in listen-only mode.

Date: Monday, May 18

Time: 1:30 p.m. PDT

Web access: [www.investor.agilent.com](http://www.investor.agilent.com)

Listeners may log on and select “Q2 2015 Agilent Technologies Inc. Earnings Conference Call” in the “News & Events – Calendar of Events” section. The webcast will remain on the company site for 90 days.

In addition, a telephone replay of the conference call will be available at approximately 5:30 p.m. PDT on May 18 through May 25 by dialing +1 855 859 2056 (or +1 404 537 3406 from outside the United States) and entering pass code 22310408.

 [Click here to return to Contents](#)

### ***Autodesk Extends Invitation to Join Financial Results Conference Call***

01 May 2015

[Autodesk](#), Inc. today announced that it will broadcast its first quarter fiscal 2016 financial results conference call live via its website Tuesday, May 19, 2015 at 2:00 p.m. Pacific Time. Autodesk will host a live webcast call at [www.autodesk.com/investors](http://www.autodesk.com/investors). An audio replay webcast and podcast will also be available after 5:00 p.m. Pacific Time on our website at [www.autodesk.com/investors](http://www.autodesk.com/investors). For more information, please call Autodesk Investor Relations at 415-507-6705

 [Click here to return to Contents](#)

### ***Cadence Reports First Quarter 2015 Financial Results***

27 April 2015

Cadence Design Systems, Inc. today announced results for the first quarter of fiscal year 2015. Cadence reported first quarter 2015 revenue of \$411 million, compared to revenue of \$379 million reported for the same period in 2014. On a GAAP basis, Cadence recognized net income of \$36 million, or \$0.12 per share on a diluted basis, in the first quarter of 2015, compared to net income of \$33 million, or \$0.11 per share on a diluted basis, for the same period in 2014.

# CIMdata PLM Industry Summary

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Using the non-GAAP measure defined below, net income in the first quarter of 2015 was \$72 million, or \$0.23 per share on a diluted basis, as compared to net income of \$59 million, or \$0.20 per share on a diluted basis, for the same period in 2014.

“Cadence continued its excellent record of innovation and execution in the first quarter,” said Lip-Bu Tan, president and chief executive officer. “We achieved strong financial results, expanded relationships with key customers and ecosystem partners, launched Innovus, our next-generation digital implementation system, to enthusiastic customer support, and Cadence was recognized in FORTUNE Magazine’s 2015 list of ‘100 Best Companies to Work For.’”

“Successful execution of a sound strategy drives superior results,” added Geoff Ribar, senior vice president and chief financial officer. “With the progress we are making on our strategy and confidence in Cadence’s prospects, we are pleased to announce that we are replacing our existing stock repurchase program with an expanded program to repurchase \$450 million over the next two years.”

Cadence expects to repurchase approximately \$56.25 million of its common stock per quarter, beginning with the second quarter of 2015. The actual timing and amount of repurchases will be based on corporate and regulatory requirements and other factors. The stock repurchase program may be suspended, modified or discontinued at any time.

## Business Outlook

For the second quarter of 2015, the company expects total revenue in the range of \$410 million to \$420 million. Second quarter GAAP net income per diluted share is expected to be in the range of \$0.14 to \$0.16. Net income per diluted share using the non-GAAP measure defined below is expected to be in the range of \$0.23 to \$0.25.

For 2015, the company expects total revenue in the range of \$1.680 billion to \$1.720 billion. On a GAAP basis, net income per diluted share for 2015 is expected to be in the range of \$0.60 to \$0.70. Using the non-GAAP measure defined below, net income per diluted share for 2015 is expected to be in the range of \$0.96 to \$1.06.

A schedule showing a reconciliation of the business outlook from GAAP net income and diluted net income per share to non-GAAP net income and diluted net income per share is included in this release.

 [Click here to return to Contents](#)

## ***Fujitsu says profit soars 24% on weak Yen***

30 April 2015

Fujitsu said Thursday that its annual net profit jumped 24 percent, as a weak yen boosted its bottom line although it expects profits to decline this year.

The sprawling Japanese information technology company posted a 140 billion yen (\$1.2 billion) gain in the fiscal year to March, up from 113.2 billion yen a year earlier, while operating profit jumped 21.3 percent to 178.6 billion yen.

A fall in the Japanese currency helps make exporters more competitive overseas and inflates the value of

# CIMdata PLM Industry Summary

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repatriated profits.

But the company's full-year revenue came to 4.75 trillion yen, down 0.2 percent, as it took a hit in its home market, particularly in smartphones and personal computers, as a sales tax rise in Japan last year hammered consumer spending.

For the year to March 2016, Fujitsu forecasted a weaker net profit of 100 billion yen on sales of 4.85 trillion yen.

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## ***Geometric declares revenues of INR 11.05 Bn for FY15***

28 April 2015

[Geometric](#) Ltd. announced its Q4 and annual results for FY 2014-2015 at the board meeting held today.

### **Highlights for financial year ended March 31, 2015 (FY15)**

The Company's consolidated revenues rose 0.9% to INR 11,053.01 Mn from INR 10,954.52 Mn last year

Dollar revenues stood at USD 180.61 Mn compared to USD 181.39 Mn in previous financial year

The Profit after Tax for the year stood at INR 551.63 Mn as against INR 462.43 Mn for FY14

EPS of INR 8.62 for the year as against INR 7.31 in FY14, an 18% YoY Increase

Recommended dividend of INR 2.50 on face value of INR 2 per share, by the Board of Directors

### **Highlights for the quarter ended March 31, 2015 (Q4 FY15)**

The Company recorded operating revenues of INR 2,679.00 Mn, as against revenues of INR 2,888.89 Mn in the previous quarter, and INR 2,733.62 Mn in the corresponding quarter last year

Revenue of Geometric (excluding its joint venture company, 3DPLM), was at INR 1,965.63 Mn, as against INR 2,154.22 Mn in Q3FY14 and INR 2,001.03 Mn in Q4FY13

Signed new deals worth USD 9.40 Mn

In USD terms, the Company declared operating revenues of USD 42.92 Mn for the quarter ended March 31, 2015 compared to revenues of USD 46.60 Mn in the last quarter, and USD 44.29 Mn in Q4FY14. Decline in revenues from Q3'15 to Q4'15 is attributable mainly to sharp decline in Euro & reversal of revenues on account of issues arising from ERP switch over as well as other factors including delays in projects starting. In addition, the Aerospace unit also saw a dip in QoQ revenues since the unit had a significant one time software license revenue in Q3'15.

The Company closed the quarter with profit after tax (after extraordinary items) of INR 32.92 Mn as against profits of INR 163.75 Mn in the previous quarter and INR 67.35 in the same quarter last year. The EPS for the quarter stood at INR 0.51. The profits were impacted by both fall in revenue and unusual items in G&A expenses.

Mr. Manu Parpia, Managing Director & CEO said, "The quarter does represent a set back in our

## CIMdata PLM Industry Summary

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progress. Nonetheless we believe we will return to revenue growth on the back of our wins and our pipeline. We will also start seeing the impact of revenues from commencement of 3DGS operations.”

The company had total employee strength of over 4800 employees as of March 31, 2015, including its subsidiaries.

 [Click here to return to Contents](#)

### ***Infosys Q4 Results Reported***

27 April 2015

IT services major [Infosys](#) on Friday reported a moderate 3.5% growth in its net profit at Rs 3,097 crore for the quarter ended March 31, missing market expectations as business remained challenging for the company.

The country's second largest software exporter had recorded a net profit of Rs 2,992 crore in the January-March quarter of 2013-14. Revenue during the quarter under review rose by 4.2% to Rs 13,411 crore from Rs 12,875 crore in the comparable period in the previous fiscal. On a quarter-on-quarter, profit fell 4.7% from Rs 3,250 crore in October-December period. Revenue declined 2.8% from Rs 13,796 crore.

Infosys said it expects revenue growth in the range of 10-12% only for 2015-16 fiscal in constant currency terms, whereas the Nasscom estimate for the industry 12-14%. "We are expecting to grow at 10-12%. We are targeting revenues of US \$20 billion by 2020. Our average revenue per employee is expected at US \$80,000 by 2020," Infosys CEO [Vishal Sikka](#) said. Reacting to disappointing numbers, Infosys shares plunged by almost 6% to close at Rs 1,996.25 apiece on BSE.

Infosys's rival TCS, Wipro and HCL Tech all had reported earning numbers that fell below expectations, hit by currency fluctuations as the US dollar grew stronger against all major currencies and Indian rupee. "We see industry going through a fundamental and structural transition. Despite being a challenging quarter, I am encouraged by the early successes in executing our Renew-New strategy, on a foundation of learning," Sikka said.

Addressing investors in a concall, he said that the pricing is under pressure due to increasing commoditisation in the tradition outsourcing business.

In US dollars, Infosys net profit grew 2.3% to US \$498 million in the fourth quarter of 2014-15 from USD 487 million in the year-ago period; revenues rose 3.2% to US \$2.159 billion from US \$2.092 billion a year ago. Quarter-on-quarter, net profit fell 4.6% from US \$522 million in December quarter, whereas revenue declined 2.6% from US \$2.218 billion during the same period. For the entire 2014-15 fiscal, Infosys' net profit grew 15.8% to Rs 12,329 crore compared to 2013-14 fiscal, while revenue was up 6.4% to Rs 53,319 crore.

 [Click here to return to Contents](#)

### ***ManTech Announces Financial Results for First Quarter of 2015***

30 April 2015

ManTech International Corporation today announced financial results for the first quarter of fiscal year 2015, which ended March 31, 2015.

"ManTech began the year with improved margin performance driven by strong direct labor delivery in support of critical missions," said ManTech Chairman and Chief Executive Officer George J. Pedersen.

# CIMdata PLM Industry Summary

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"We expect revenues to increase through acquisitions and new business awards with greater certainty around funding in our markets. Contract activity across the industry is starting to increase, and more high-quality companies are becoming available for acquisition. We are excited by the acquisition of Welkin Associates, Ltd., formerly a wholly-owned subsidiary of CSC, which provides high-end engineering services to the Intelligence Community and DoD, and we are actively looking at other promising acquisition candidates to accelerate ManTech's growth."

## Summary Operating Results

Revenues for the quarter were \$370.3 million, down from \$411.4 million in the fourth quarter of 2014, primarily due to reduced subcontractor and materials requirements related to ManTech's support in Afghanistan and other countries in the region. In-theater staffing today is about 300 people compared to about 2,400 in early 2013. Annualized direct labor was up compared to the fourth quarter of 2014 after adjusting for 2 fewer working days in the quarter. Support for Overseas Contingency Operations contributed roughly \$23 million in revenues in the quarter, down about \$8 million from the fourth quarter of 2014.

Operating income for the quarter was \$20 million, essentially unchanged from the first quarter of 2014. Quarterly operating margin of 5.4% increased 100 basis points from the first quarter of 2014, as the result of direct labor mix, strong contract performance, and improved cost management. For the quarter net income was \$12 million and diluted earnings per share were \$0.31, up 22.0% and 19.2%, respectively, compared to the first quarter of 2014 as a result of margin expansion as well as reduced interest expense from redeeming Senior Notes in the second quarter of 2014.

## Cash Management and Capital Deployment

Cash flow from operations for the quarter was \$26 million or 2.2 times net income. Days sales outstanding (DSO) were 87 days. DSO temporarily increased while upgrading the company's financial management system.

During the quarter, the company paid \$7.9 million, or \$0.21 per share, to its common stockholders of record as of March 6, 2015. As of March 31, 2015, the company had \$44 million in cash and cash equivalents and no outstanding borrowings on its \$500 million revolving-credit facility, which provides the company with the financial capacity to pursue acquisitions, issue dividends, and maintain a strong balance sheet.

After the close of the quarter, the company acquired Welkin Associates. The acquisition will enable ManTech to pursue large engineering and support opportunities throughout the Intelligence Community and the Department of Defense. The acquisition brings highly skilled employees, virtually all directly supporting intelligence missions. Welkin will become part of ManTech's Mission, Cyber and Intelligence Solutions Group.

The Board of Directors has declared that the company will pay a cash dividend of \$0.21 per share on June 19, 2015, to all common stockholders of record as of June 5, 2015, as part of its regular quarterly cash dividend program. Future declarations of dividends and their record and payment dates are subject to the final determination of ManTech's Board of Directors.

## Contract Awards

Contract awards (bookings) totaled \$149 million in the quarter, representing a book-to-bill ratio of 0.4. Approximately 44% of the awards were for new business, primarily in the areas of health, software support, and systems engineering. Proposal activity remains high, and during the quarter the company

## CIMdata PLM Industry Summary

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identified \$2 billion in additional proposals that it expects to submit in 2015. The company's backlog of business at the end of quarter was \$3.0 billion, of which \$0.9 billion was funded.

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### ***OpenText Reports Third Quarter Fiscal Year 2015 Financial Results***

29 April 2015

Open Text Corporation announced today its financial results for the third quarter ended March 31, 2015.

- Recurring revenue was \$383.6 million, up 4%; in constant currency\*, up 10%
- Cloud services revenue was \$143.8 million, up 12%; in constant currency, up 17%
- Record operating cash flow of \$143.1 million and raises quarterly dividend to \$0.20
- Total revenue was \$447.6 million, up 1%; in constant currency, up 8%

"In Q315, our cloud revenue grew 12%, up 17% in constant currency and we closed 7 iX deals over \$1 million, the benefit of which we will see in our future ongoing cloud revenues," said OpenText CEO Mark J. Barrenechea. "Our products and services are resonating with enterprise customers and OpenText is well positioned to lead the digital transformation in the cloud."

Barrenechea further added, "As for our quarterly financial results, we did not meet our full financial objectives. As for revenue, we were affected by foreign exchange and customers transitioning to our cloud; as for profit, we were affected by foreign exchange and unique items in the quarter, such as acquisitions, litigation costs and others, the benefits of which should be seen in future quarters. With that said, I am pleased that our recurring revenues grew by 4%, up 10% in constant currency, and we had record operating cash flows of \$143.1 million in the quarter."

"Foreign currency volatility continued to have a significant impact on our results in the quarter and on a year-to-date basis," said John Doolittle, OpenText CFO. "Although we are fighting currency headwinds, we are pleased with our growth in recurring revenues and our operating cash flow performance, attributed to our strong working capital management this quarter. Based on the operating cash performance, our strong liquidity position and our focus on delivering value to shareholders, we have increased our quarterly dividend to \$0.20."

\*Constant currency for this purpose is defined as the current period reported revenues/expenses/earnings represented at the prior comparative period's foreign exchange rate.

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### ***PTC Announces Second Quarter FY'15 Results***

30 April 2015

[PTC](#) today reported revenue for the second quarter of FY'15 of \$314.1 million. Net income was \$5.4 million or \$0.05 per share, which compares to revenue of \$328.7 million and net income of \$43.8 million or \$0.36 per share in the second quarter FY'14.

Second quarter FY'15 non-GAAP revenue was \$315.3 million. Non-GAAP net income was \$61.4 million or \$0.53 per share, which compares to non-GAAP net income of \$57.7 million or \$0.48 per share, in the second quarter FY'14.

James Heppelmann, President and CEO said, "PTC had a solid second quarter. When adjusted for an increasing mix of subscription bookings and foreign currency depreciation, our analysis indicates software revenue would have increased 10% and non-GAAP earnings would have increased more than 20%. Although foreign currency and subscriptions bookings mix will continue to weigh on our reported results this year, we still expect to achieve 15% constant currency growth in non-GAAP earnings - as our workforce realignment positions us to deliver improving operating margin in the second half of FY'15. Focused portfolio management of our business is enabling us to drive operating margin expansion while still investing for growth in our Internet of Things initiatives, where we are on pace to exceed our target of 200 new IoT customer additions for the year. Our core software business continues to perform well given the macroeconomic environment and importantly we are significantly enhancing the value and relevance of our core products through the addition of IoT capabilities."

 [Click here to return to Contents](#)

## Implementation Investments

### *China Nuclear Power Engineering selects Siemens to enhance design efficiency*

28 April 2015

China Nuclear Power Engineering Co., Ltd. has selected Teamcenter® software from Siemens' product lifecycle management (PLM) software business to enhance efficiency in nuclear power plant design. CNPE will use Teamcenter to build a uniform and integrated engineering information management system that will serve as the definitive single source of digitalized design data for users across all disciplines, regions and departments. The Teamcenter system will enhance design management efficiency by facilitating instant access to accurate and current information across the CNPE enterprise, providing support for equipment purchasing, engineering installation and system debugging. By laying a solid foundation for delivering digital nuclear power plants, CNPE is setting a strong example in its industry for efficient product development.

"The development of nuclear power engineering construction demands advanced digital methods and technological innovation," said Mr. Gao Fuchun, officer of Information File in China Nuclear Power Engineering. "Siemens has the required knowledge and expertise, along with the advanced innovative technologies to properly address this critical need. Our partnership will facilitate the upgrading and transforming of the nuclear power engineering construction industry, as well as the integration of information and industrialization."

With the rapid development of China's nuclear power industry, designing and constructing safe nuclear power plants in a cost-effective manner is becoming a critical challenge for the nuclear power construction industry. As an industry leader, CNPE will transform its traditional design management model into a digitalized engineering information management system. This will enable cross-disciplinary collaborative design and information management for the equipment, system, and plant. CNPE selected Teamcenter, the world's most widely used PLM system, to serve as the collaboration platform and data backbone of this new system.

"We are extremely honored to be partnered with CNPE in driving the digitalization of China's nuclear power engineering construction industry," said Leo Liang, Vice President and Managing Director, Greater China at Siemens PLM Software. "Their leadership, combined with our strong capability and comprehensive PLM solutions will help them better manage their design efficiency and achieve their

digitalization goal, while serving as a great example for others in their industry.”

 [Click here to return to Contents](#)

## ***Cray and Altair Announce OEM Agreement***

27 April 2015

[Altair](#) today announced an original equipment manufacturer (OEM) agreement with Cray Inc. PBS Professional® is now Cray's preferred workload manager and job scheduler.

The three-year agreement represents an expansion of Altair's long-standing partnership with Cray, a global leader in supercomputing and high-performance computing (HPC) systems. Under the terms of the agreement, Cray can more easily integrate PBS Professional as the preferred scheduler on Cray systems, with the ability to bundle PBS Professional units with new systems shipped anywhere in the world.

"Our customers will benefit from this relationship as we will be able to more easily and cost-effectively deliver unique, integrated technologies, such as DataWarp I/O acceleration and application power management," said Barry Bolding, Cray's vice president of marketing and business development. "Altair and PBS Professional are established leaders in HPC workload management, and we look forward to leveraging this agreement for growth in commercial and other emerging market segments. Now Altair users can come directly to Cray for engineered solutions that are ready to meet their highest HPC requirements."

"This agreement streamlines both the business and technology integrations between our companies," said James Scapa, Altair founder and chief executive officer. "We are proud that Cray has the confidence in our PBS Works product line to invest in this manner, essentially naming Altair as the company's premier workload management software supplier."

Cray builds the world's most advanced HPC systems, and offers a comprehensive portfolio of supercomputers, storage, and analytics solutions that deliver unrivaled sustained performance on a wide range of challenging applications. Today's announcement ensures improved, out-of-the-box productivity for Cray's customers.

Altair has served the HPC market for decades with award-winning workload management, engineering, and cloud computing software. Used by thousands of companies worldwide, PBS Professional enables engineers in HPC environments to improve productivity, optimize resource utilization and efficiency, and simplify the process of cluster workload management.

Together, Cray and Altair operate some of the largest supercomputers in existence, including many systems in the weather and aerospace industries. Visit <http://web2.altairhyperworks.com/cray-and-altair> for more information about Cray and Altair collaborations.

 [Click here to return to Contents](#)

## ***Furla Selects Centric Software Product Lifecycle Management***

28 April 2015

Furla, the Italian fashion company of premium leather goods and accessories, has selected Centric Software to provide its [product lifecycle management \(PLM\) software](#).

# CIMdata PLM Industry Summary

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The company will use the Centric 8 [PLM software for fashion, luxury, retail and consumer goods](#) to help execute its international growth plan. Centric 8 will serve as a key component in Furla's re-design of its product development and supply chain processes.

"The Centric PLM software will increase Furla's efficiency by improving internal and external collaboration with the company's manufacturing platform and suppliers. Deeper, more comprehensive collaboration among Furla's style, merchandising and product development teams will assure that on-trend products reach their international markets on-time," explains Eraldo Poletto, CEO of Furla.

"The opportunity to work with the Furla brand – a true expression of authentic Italian style – is an opportunity to make a real difference in the growth of this iconic company known for elegance and creativity," says Chris Groves, president and CEO of Centric. "The Centric 8 PLM solution, designed especially for fashion, luxury, retail and consumer goods, will help Furla achieve its global goals."

 [Click here to return to Contents](#)

## ***Hitachi Power Systems Company Selects Aras for Enterprise Product Lifecycle Management***

01 May 2015

Aras®, the next leader in enterprise Product Lifecycle Management (PLM) software, today announced that Hitachi, Ltd. Power Systems Company, a leading supplier of equipment and services for the power generation market, has selected the Aras Innovator suite for enterprise PLM to serve as the backbone for the company's new global engineering data IT framework. The move to Aras PLM underscores the drive at Hitachi Power Systems to optimize manufacturing efficiency and product quality.

After evaluating several PLM solution suites, Hitachi Power Systems selected Aras for its native Web platform technology, overall system flexibility and extensive customization capabilities. Hitachi Power Systems plans to integrate numerous critical processes across multiple business units and departments, worldwide, using the Aras Innovator platform.

"With Aras, we can manage in a single system the multitude of business processes and product data sources needed to unify our global product design and production," said Kyu Kabata, Senior Engineer, Business Process Innovation and Information Technology Department of Hitachi Power Systems. "This will provide us with significant competitive advantage as more accurate information reduces lead times and improves business quality."

"We're looking forward to providing our PLM suite to optimize product development across Hitachi Power Systems' around the world," said Peter Schroer, President of Aras. "The Aras platform will provide the scalability and flexibility Hitachi Power Systems requires to unify its large and diverse set of complex products and processes."

 [Click here to return to Contents](#)

## ***Innovation Management Made Simple at Beiersdorf***

24 April 2015

SAP and Beiersdorf co-innovated to develop SAP Innovation Management, a solution that helps companies systematically foster ideas and develop innovations with unprecedented efficiency.

Every company, whatever its size, is brimming over with innovation potential, which is why today's enterprises are on the look-out for creative methods to foster idea management. However, too often a lack of basic processes and structures means that some of a company's innovative power and employee

## CIMdata PLM Industry Summary

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potential is simply going to waste. To ensure successful idea management, companies need a platform that motivates potential users.

SAP Innovation Management is the result of a cooperation project between SAP and Beiersdorf, along with other customers. It specifically addresses those challenges that companies struggle with most in their innovation processes.

“The product is tailored to what customers need and was developed in close collaboration with them,” says Jochen Mayerle, Chief Solution Expert at SAP. The solution unites all of the key processes in idea management — from gathering ideas, setting up idea campaigns, and inviting feedback from peers to locating subject-matter experts and handing ideas over to product development.

“SAP listened”

Companies that use multiple software solutions for ideation are in real danger of letting good ideas slip through the cracks. That’s why Beiersdorf set its sights on creating a single solution that would combine plenty of versatile functions with the ability to support exchange and discussion across teams and geographies.

Another important factor for Beiersdorf was the user experience. After all, if entering ideas in the tool is enjoyable, then employees are more likely to do it.

“An ideation solution has to have a great ‘look and feel’ so that employees are motivated both to submit their own ideas and to evaluate and share opinions about the ideas entered by their peers. This last aspect is key, because it is the act of exchanging opinions that really gets the innovation process moving,” explains Alexander Ramin, Global Process & Application Solutions, Department Lead Innovation, Marketing and Sales at Beiersdorf Shared Services. The software must be simple and easy to use.

“We wanted to benefit from the co-innovation project by channeling our own ideas and wishes into it. The user experience in SAP Innovation Management is excellent. So I can categorically say that SAP listened,” says Ramin.

 [Click here to return to Contents](#)

### ***NUS enters a strategic collaboration with Agilent to facilitate research on Cardiovascular care***

29 April 2015

Agilent Technologies Inc. today announced a strategic collaboration with the National University of Singapore (NUS) Yong Loo Lin School of Medicine in a move aimed to help researchers develop more effective medicine to treat cardiovascular disease.

The Department of Medicine at the Yong Loo Lin School of Medicine at NUS will have access to the latest bioanalytical instruments from Agilent as part of its in-depth study of clinical bioanalytics—the body's response to drug exposure.

"We are happy to be working with Agilent," said assistant professor Chester Drum, Department of Medicine at the NUS Yong Loo Lin School of Medicine. "Agilent's broad range of technologies will, ultimately, aid in the development of new analytics for personalized patient care. Consideration of the patient as an individual, rather than a statistic, is where we will see the next innovations in cardiovascular medicine."

Dr. Drum, who is also with the Cardiovascular Research Institute (CVRI) at the National University

## CIMdata PLM Industry Summary

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Heart Centre, Singapore, aims to provide real-time readouts for patients to understand the risk-benefit of commonly prescribed medications throughout the lifecycle of a drug. Presently, the research is on drugs for heart disease but could be extended to a host of related diseases, such as high cholesterol, diabetes, etc. According to the World Health Organization, cardiovascular disease was the No. 1 cause of death worldwide in 2012(1).

"This collaboration with NUS Medicine is exciting, as we can see that the potential outcomes could save lives or improve people's quality of life," said Agilent's Robin Philp, specialist for the academic market in the South East Asia Pacific and Korea region. "We appreciate the opportunity to collaborate with research leaders like NUS Medicine, who will be using our technology to conduct faster, more accurate research in their quest to answer science's tough questions."

"As a leading cardiovascular research organization in Singapore, we are delighted to partner with Agilent to enable the development of cutting-edge analytical biochemistry infrastructure, intellectual property and human capital in Singapore," said professor Mark Richards, director of the CVRI. "This partnership is an excellent example of an intelligent extension of our institute's technical capacity while keeping in step with the needs of industry for mutually constructive and productive partnerships with academic biomedical research groups."

Under the terms of the memorandum of understanding, Agilent will provide access to its proof-of-concept laboratory in Singapore. One of the instruments in the lab will be the Agilent [6550 iFunnel quadrupole time-of-flight liquid chromatography mass spectrometry \(Q-TOF LC/MS\) system](#). The 6550 is best suited for highly challenging qualitative and quantitative analyses in applications such as metabolomics, early-stage drug metabolism and pharmacokinetics.

Dr. Drum's team will also have access to the Agilent Capillary Electrophoresis System model 7100, a high-sensitivity instrument used for small sample amounts of charged substances such as biomolecules, low molecular weight basic and acidic drugs and ions. Both NUS Medicine and Agilent will have opportunities to present at various industry or Agilent-led events or seminars in Asia Pacific region.

 [Click here to return to Contents](#)

### ***Special Vehicle Manufacturer Faymonville expands rollout of CIM DATABASE PLM***

30 April 2015

Faymonville, a manufacturer of trailers for special-purpose and heavy-duty trucking, relies on CIM DATABASE PLM to validate its product portfolio strategy. The company is therefore not only replacing its existing TDM system but also establishing new PLM apps like mBOM Manager, to provide optimal support for the product creation process from development through to production. Faymonville has been using CIM DATABASE PLM for an initial product series since the middle of 2014 and is now expanding rollout.

Faymonville AG, which is headquartered in Luxembourg, exports approximately 40% of its trailers to countries outside Europe. In 2014, the corporate group introduced CIM DATABASE at four locations in order to strengthen its market position. The PLM system from CONTACT Software will replace the existing team data management solution and enable configure-to-order processes that will provide comprehensive support for Faymonville's strategic corporate objectives with regard to the new product platforms.

CIM DATABASE PLM is already being used for the modular MAX Trailer system. Faymonville thus

## CIMdata PLM Industry Summary

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provides a product series with cost-optimized modules and a maximum number of common parts that customers can use to put together their own custom trailer solution using the online configurator. The PLM system uses this data to generate the corresponding orders, including manufacturing bills of materials and production documents. The manufacturing BOMs are managed via the new mBOM Manager for CIM DATABASE; other PLM applications control data management for E<sup>3</sup>series (ECAD) and SolidWorks (MCAD) and the management of MS Office documents.

In 2015, Faymonville will gradually switch its other product series to the new PLM platform and roll out the CIM DATABASE modules for variant management and engineering change management (ECM). The new CombiMAX low-loader system, which won the coveted Trailer Innovation Award 2015 at the IAA in Hanover, will soon go live.

The aim of establishing end-to-end engineering-to-order processes, the greater reuse of existing designs and efficient variant and change management is to optimize the company's core business. Faymonville specializes in the one-off production of custom transport solutions that go well beyond what is generally available and can handle payloads ranging from 20 to 2,000 tons.

"This individuality ensures our company a strong and stable presence on the market," says Guy Fickers, Technical Director at Faymonville. "CIM DATABASE PLM opens up new ways for us to master the large number of variants and product complexity."

 [Click here to return to Contents](#)

### ***Russian Fashion Retailer MODIS Selects TUKAcad and TUKA3D for Fit and Product Development***

30 April 2015

[MODIS](#), Russia's fastest growing value fashion retailer with sales exceeding 13 billion Rubles and 138 stores, chooses Tukatech systems to drive innovation and efficiency.

"2015 has been a challenging year with the Ruble losing nearly 50% of its value. In such challenging times Modis has decided to re-engineer its processes, roles, workflow and systems in order to combat inflation and improve customer service" comments Mike Mikkelborg, Commercial Director.

"Tukatech's [TUKA3D virtual prototyping software](#), their consulting and implementation processes add value and benefits that will help Modis thrive through these challenging times. Our objective is to help our supply chain reduce their cost of samples, courier, development and provide consistent fit for our customers," he added.

"Modis makes high quality, yet affordable fashion clothing for women, men, teenagers and children. Their product range also includes shoes, accessories and cosmetics. This is possible because Modis creates its own collections without any middleman. Modis buyers and resources work in teams to create the collections. Flexible planning of the product range and quick decision-making ensure that the collections are continually adapted to what customers want. MODIS strives to always have the best customer offering in each individual market – based on the combination of fashion, quality, price and sustainability," commented Mr. Mike Mikkelborg.

"We have been working with the Modis teams and their key vendors in many countries to make sure we standardize the FIT, streamline the development process and reduce time and cost of development. With complete implementation in the entire supply chain, the concept to final approval will be 14 days while thousands of unnecessary samples being produced are eliminated" commented Mr. Ram Sareen, Founder- CEO, Tukatech. "Developing 3D virtual blocks and virtual samples that are stored in the

# CIMdata PLM Industry Summary

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Cloud, and having the entire supply chain communicate through web services reduces time, miscommunication, emails and courier charges. The vendors are happy as they are able to get started with production quicker and their cost is reduced drastically”, he added.

“Timex is a major vendor for dresses and we are making 10 times more samples to see the print placements, different silhouettes, story boards etc. to make quick decisions, however all these are 3D virtual samples. We only make the final sample, but that too is being eliminated as our customers can see zero difference between the approved virtual sample and final physical sample received. This saves all of us another 10 days”, commented Mr. Arshad Sattar, Managing Director. “We are developing over 1,000 new styles and about 5,000 iterations of different combinations per month. We couldn't do that in the old conventional method of sample development and stay profitable. It was just impossible to even find that many pattern makers. TUKA3D has added huge value to our business and contributed to our growth”, he added

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## ***Russian industrial leader takes AVEVA software***

27 April 2015

MOSGIPROMEZ LLC, a top design institute in the Russian iron and steel industry, has implemented AVEVA Everything3D and AVEVA Bocad software.

The company recently determined that the functionality of its previous 2D software could not meet a rise in project demand or an increase in design complexity.

It needed a solution that could offer tight integration between plant design and structural steel detailing in order to increase efficiency and improve its business process.

The client said AVEVA's technology met all these requirements and offered an easy-to-use interface that enabled a quick implementation. MOSGIPROMEZ's implementation of this new approach to work and adoption of new technologies represents a long-term investment and will result in maximum efficiency and collaboration, according to the company.

Managing director Galina Yaskina said: “AVEVA gave MOSGIPROMEZ a solution to gain higher levels of design efficiency for bigger scale projects that demand much greater complexity.

“Explaining its digital asset approach to us, AVEVA demonstrated how its software can address these challenges. We hope to see in AVEVA a reliable and trustworthy partner. I visited the AVEVA World Summit in Berlin in 2014 and was very impressed by the number of customers participating. AVEVA has a very strong approach to customer relations.

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## Product News

### ***Altair to Introduce VisSim 9.0 at PCIM Europe 2015 in Nuremberg***

28 April 2015

[Altair](#) announced today that the company will present its solutions for embedded systems development at PCIM Europe taking place May 19-21, 2015 in Nuremberg, Germany. Technologies to be showcased include the VisSim™ 9.0 product suite, the latest release of Altair's powerful visual language for

# CIMdata PLM Industry Summary

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mathematical modeling, simulation, and model-based embedded systems development. Live demonstrations and VisSim development thought leaders will be on-hand throughout the event (Booth 7-316) to present how VisSim 9.0 can accelerate model-based design of embedded systems.

Released in March 2015, VisSim 9.0 provides an intuitive visual development environment for increased engineering productivity and broader support for the Texas Instruments (TI) C2000 product family. Now with deep support for motor control simulation and embedded development on TI C2000 microcontrollers (MCUs), VisSim 9.0 enables control engineers to develop embedded systems 100% graphically without the need to write a single line of C code.

"Since the PCIM (Power Conversion Intelligent Motion) show is one of Europe's leading trade shows for power electronics and related applications in intelligent motion, renewable energy, and energy management, it is a great platform to present our products," said Michael Hoffmann, Senior Vice President, Math and Systems at Altair. "We are looking forward to presenting VisSim 9.0 in Nuremberg and expect a lot of interest especially for our embedded, digital power, and electric drives solutions from the attendees."

 [Click here to return to Contents](#)

## ***Altium Pcb design tool removes barriers between ECAD/MCAD designers***

27 April 2015

ALTIUM PCBWorks printed circuit board (pcb) design tool created to enhance workflow collaboration between electrical and mechanical designers. Software provides a powerful set of collaboration tools to integrate design data with the industry-leading mechanical design software, SolidWorks.

At the core of software is a set of powerful schematic capture and pcb layout tools along with an easy-to-use interface that works in tandem with existing mechanical workflows in SolidWorks.

Design data between components and mechanical enclosures are linked seamlessly between electrical and mechanical workflows, with the world's first-ever managed Engineering Change Orders (ECO) process delivering changes in design data from SolidWorks to PCBWorks using native SolidWorks files.

<http://www.altium.com>

 [Click here to return to Contents](#)

## ***Autodesk Accelerates the Future of Digital and Physical 3D Creation with Microsoft***

01 May 2015

In two separate but related efforts to advance the future of digital and physical creation, [Autodesk, Inc.](#) announced it is working with [Microsoft Corp.](#) to embed its 3D printing platform in Windows 10, and that it intends to make its 3D modeling software interoperable with Microsoft's mixed reality environment, [Microsoft HoloLens](#).

In the first initiative, Autodesk will embed its [Spark](#) 3D printing software platform in Windows 10. This effort will provide Windows users with direct access to optimized and more reliable 3D printing experiences that streamline the additive manufacturing process for a variety of software, material, and printer choices. Autodesk will make the Spark APIs available for free\* to the Microsoft developer community to build upon, extending the reach and growth of the 3D printing industry. Further, to their combined goal of making 3D printing more accessible, Autodesk will also join Microsoft as a founding

# CIMdata PLM Industry Summary

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member of a 3D Manufacturing Format (3MF) Consortium to create and support a standard 3D interchange and printing format.

"We're approaching a tipping point with 3D printing, which means there is a huge market opportunity waiting for companies developing applications for Windows 10," said Steve Guggenheimer, Corporate Vice President of Developer Platform & Evangelism and Chief Evangelist for Microsoft. "By providing the 3D printing building blocks found in the Spark platform and optimizing it for Windows 10, Autodesk has empowered our global developer community to confidently enter this new world of additive manufacturing."

The second initiative is aimed at bringing 3D models from Autodesk software into the virtual reality environment of [Microsoft HoloLens](#). Digital models using software such as [Autodesk Maya](#) or [Fusion 360](#) could then be viewable in the mixed reality environment enabled by HoloLens. For game developers and filmmakers, this may accelerate the creation of a new generation of entertainment experiences. For designers and engineers, this may make it possible to digitally view a full scale model during the upfront design phase of product development, cutting down on the time and cost required for physical prototypes before fabrication.

In the future, designers and engineers could create 3D models of their ideas with Autodesk software, like [Fusion 360](#), view the models with HoloLens, and prep them for 3D printing on Spark-compatible printers.

"3D printing is incredibly promising, but also still too complex and unreliable. This relationship is a key step in making 3D printing easier and more accessible to businesses and individuals alike," said Samir Hanna, vice president and general manager, Consumer and 3D Printing, Autodesk. "Together with Microsoft and its global community of developers, we have an opportunity to tackle the complexities of 3D design and printing head-on to improve how things are made and even change the very nature of what we create."

 [Click here to return to Contents](#)

## ***CGS Packages Software for Omnichannel Business Environment***

30 April 2015

CGS, a global provider of business applications, enterprise learning and outsourcing services, announces that its flagship BlueCherry® Enterprise Suite will now incorporate the Leadtec® shop floor control and Threadvine® wholesale solutions.

In response to the consumer lifestyle industry's trend toward the integration of business functions, an omnichannel business approach and a more seamless consumer experience, CGS has designed its BlueCherry portfolio around providing an end-to-end, comprehensive solution that can manage clients' complete concept-to-consumer processes. CGS has served the fashion, consumer lifestyle and sewn products industry with its flagship business solutions for more than 30 years, driving the fundamental business processes of global organizations such as Aerosoles, Delta Apparel, Tommy Bahama, Haggard and Paige Denim.

To enhance the breadth of CGS's BlueCherry offerings and enable clients to better meet today's changing industry needs, CGS's Leadtec and Threadvine products are now incorporated into the BlueCherry Enterprise Suite under the new names BlueCherry Shop Floor Control (formerly Leadtec)

# CIMdata PLM Industry Summary

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and BlueCherry B2B Ecommerce (formerly Threadvine).

Encompassing ERP, Omnichannel Planning, PLM, Manufacturing, Logistics, Sales, Finance, EDI and Business Intelligence functions, the added breadth of Shop Floor Control and B2B Ecommerce capabilities to the BlueCherry Enterprise Suite allows customers to address the needs of all core management, design, product development, sourcing, manufacturing, distribution, finance and sales functions in an all-in-one solution.

In addition to becoming available within the BlueCherry Enterprise Suite, BlueCherry Shop Floor Control (formerly Leadtec) and BlueCherry B2B Ecommerce (formerly Threadvine) will continue to be offered as stand-alone solutions or integrated with other ERP systems.

"The updates to the way we present our BlueCherry Enterprise Suite to the marketplace are in direct response to our clients' needs to continuously innovate and keep at the forefront of trends and consumer demand," said Paul Magel, President of the Business Applications Group at CGS. "With our updated brand architecture, we can more effectively articulate BlueCherry's capabilities and ability to provide value across the entire demand and supply chain, from concept to consumer."

Last week, CGS unveiled an updated corporate website, [www.cgsinc.com](http://www.cgsinc.com), to reflect the expanded BlueCherry Enterprise Suite as well as the new alignment of its product offerings along three key areas of capabilities: Business Applications, Enterprise Learning and Outsourcing.

 [Click here to return to Contents](#)

## ***D-Wave Systems Uses ANSYS Engineering Simulation To Help Design Next Generation Of World's Most Advanced Quantum Computers***

28 April 2015

D-Wave Systems is designing and building the world's most advanced quantum computers with help from engineering simulation solutions from ANSYS (NASDAQ: ANSS). This next generation of supercomputers uses quantum mechanics to massively accelerate computation and has the potential to solve some of the most complex computing problems facing organizations today.

Conventional computer technology stores information as 0s and 1s, but a quantum computer uses qubits, which can be a 1 or a 0 or both at the same time. This enables quantum computers to consider and manipulate all combinations of bits simultaneously, making quantum computation powerful – and extremely fast.

Quantum computing places extreme demands on the operating environment. The system must be isolated from external electromagnetic fields and the temperature must be maintained near absolute zero. Multiphysics simulation is a powerful tool to accurately predict the kinds of environments that can be engineered in the real world. D-Wave is using ANSYS® multiphysics solutions ranging from electromagnetic solutions for simulating how integrated circuits function and interact at extremely low temperatures, to structural and computational fluid dynamics to simulate the systems used to cool the quantum processor.

"ANSYS offers a broad product portfolio with consistently high performance across all of its multiphysics products," said Jeremy Hilton, D-Wave's vice president of processor development. "If we

# CIMdata PLM Industry Summary

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weren't using ANSYS, we'd be forced to use disparate tools that don't communicate with each other. These solutions are helping D-Wave optimize today's quantum computers, while giving us valuable insight as we begin planning for the next generation."

"D-Wave is breaking new ground every day – creating computers that are the stuff of science fiction," said Larry Williams, director of product management, ANSYS. "It has never been tried before, but by using the power of ANSYS engineering simulation, this global leader is turning a vision into reality."

 [Click here to return to Contents](#)

## ***Delcam's PowerMILL Robot makes special effects extra special***

29 April 2015

A combination of Autodesk's Maya design software, Delcam's [PowerMILL Robot](#) programming system and a KUKA robot allows special effects company, Artem, to bring amazing projects to life. A video showing the process used is on Delcam.TV at [www.delcam.tv/artem](http://www.delcam.tv/artem)

Artem provides special effects of all types from giant puppets to small film props from its base in West London. "We get involved in all sorts of technology, the most recent being robot machining and 3D printing," explained Artem CEO, Mike Kelt. "Much more is done on a computer now than has ever been done in the past when it used to be very much an industry based on hand skills."

"One of the challenges is dealing with clients who aren't entirely sure what they want," added Mr. Kelt, "so you have to tell them what you think they want and get them to approve things. If you can do the design on a computer with Maya and send them an image that's rendered, then they can go "yeah that's it", and we can carry on with the design and manufacturing process."

The team at Artem explained how the process develops, starting with modelmaker, Jim Bones. "My main job is to pose the figure," he said. "I sit down with the sculptor and we'll tweak everything to get it all in the right positions. Importing a RIG model on Maya is a massive advantage as it comes with all these handles. I can just grab them and pose every little bit of the model. It's all very easy to use."

"We often start with the photograph and position the Maya RIG model to look like the photograph," continued Andrew Freeman, Digital Sculpture and CNC Supervisor: "Then we can export the model from Maya into another software, a sculpting package, that's going to allow us to fine tune the model, add on the clothing, change the muscles to give the look that the client wants. Once the design has been approved, we can start chopping the pieces up and putting them into the Delcam software to prepare them for cutting on the robot."

The programs for the robot are developed by Design Engineer, Ken White. "We import the part designs into PowerMILL Robot as a series of STL files," he stated. "For each element, we create roughing and finishing passes which we then simulate to see how they machine. Once I am happy, the toolpaths are output as G-code to the KUKA robot for machining."

"Because we are using STL files, creating boundaries is very important to be able to get to certain areas of the model," he added. "The robot allows us to machine very large pieces so keeping the number of parts to as few as possible. We are able to use the software to see how the robot is going to cut the material and to see the finish we are going to get, while the software also lets us see how the robot will react in the cell and make sure that it is not going to do something silly."

"I see a really bright future for Delcam with this company – we're delighted with the robot and the

software,” concluded Mr. Freeman. “We are going to try and extend the software to the other machines now. For me, PowerMILL is very easy to use and it’s very good at what it does.”

 [Click here to return to Contents](#)

## ***Infor Announces Major Enhancements to Supply Chain Management***

27 April 2015

Infor, the industry cloud company, today announced general availability of Infor Advanced Scheduling (AS) version 11. This latest release of Infor AS provides a major leap forward in product functionality. Infor AS version 11 includes key enhancements to help planners collaborate efficiently and evaluate production schedule performance using real time decision support metrics. The results are easier deployment of schedules and improved collaboration between various teams, ensuring that schedules align with key business objectives.

Infor Advanced Scheduling is a constraint-based scheduling solution providing components that are aimed at addressing the unique scheduling challenges for process manufacturers managing variables such as the capacity of tanks, vessels and lines as well as the flow between them. This latest version adds collaborative scheduling, quick search and filter functionality and a user-friendly dashboard for managing schedule performance.

Key Enhancements for Infor Advanced Scheduling:

Collaborative Scheduling – The collaborative scheduling process allows planners to coordinate with other planners schedule production. Schedule Performance Dashboard – The new-look schedule performance dashboard allows users to evaluate the efficiency of schedule performance through cost, duration and event-based metrics. This dashboard features color-coded order violations to help highlight exceptions and provide stakeholders with the critical scheduling information that is needed to make stronger production decisions. Planners are able to drive continuous improvement and manage or solve conflicts using a simple click to ensure that the schedules align with key business objectives. Quick Search and Filter Functionality – The new quick search and filter capabilities allow planners to search the entire schedule using keywords. This refined search functionality provides a more efficient way for planners to locate the required production and make adjustments with improved visibility and accuracy.

 [Click here to return to Contents](#)

## ***Laserdyne Announces Its New SmartPierce(TM) Software Feature for Creating a Clean Pierce Point That is the Same Diameter as the Cut Width***

30 April 2015

Laserdyne’s new SmartPierce™ creates a clean pierce point that is the same diameter as the cut width. This eliminates splatter of molten material around the pierce location making for a consistent and smoother appearing entry point.

Using Laserdyne’s exclusive SmartPierce feature, the diameter of the pierce point is smaller than a conventional pierce point when controlled by the system software ensuring that it is the same width as the cut.

The SmartPierce capability is important in wide range of applications from thick to thin metal cutting.

# CIMdata PLM Industry Summary

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For example, in many medical devices, electronics and fine mechanics applications requiring small features and thin materials, features may be too small to allow for piercing the “drop-out” or scrap portion of the material. SmartPierce solves this problem. Additional application features such as slots can be produced in a single pass without moving around the outside profile of the feature. This minimizes time producing the feature.

Other applications require the elimination of molten metal around the cutout area for structural and/or cosmetic requirements. SmartPierce eliminates the need for post processing cleaning following laser cutting.

SmartPierce is a new feature in Laserdyne’s S94P high speed and tightly integrated system that controls the timing of every laser pulse for pinpoint accuracy. Even when speed and hole spacing varies, the S94P controller delivers precise laser pulses.

SmartPierce is one of many significant advancements to Prima Power Laserdyne’s multi-axis fiber laser systems. It is a standard feature within the S94P control on Laserdyne’s 3 to 7 axes systems which include the LASERDYNE 795 and LASERDYNE 430BD fiber laser systems.

 [Click here to return to Contents](#)

## ***ModuleWorks releases 2015.04 CAD/CAM components***

01 May 2015

ModuleWorks announced the latest release of its CAM components, ModuleWorks 2015.04, the first major update of 2015. Each ModuleWorks release contains many new and enhanced features across the product range. This latest version includes new features for 5-Axis, 3-Axis, Port Machining and Simulation.

ModuleWorks is at the forefront of 5-Axis machining and simulation technology, providing the toolpath and simulation technology that powers many of the leading CAM systems available around the world today.

Highlights of the new release are shown below:

### 5-Axis

ModuleWorks SWARF now offers a new stripe milling feature which allows the user to create multiple intermediate slices following the part shape. This allows SWARF strategies to be used for machining convex type shapes such as gear flanks and the pressure sides from impellers. A best fit option ensures optimum tool axis tilt during machining.

More flexibility is provided when machining surfaces. The machining area can be extended past the drive surfaces to the edges of the main pattern. This allows the tool engagement to happen more gradually to protect the tool and maximize tool life.

The porting module has also been enhanced with the option to automatically add the link motion between the machining of the port inlet and outlet. The length and orientation of the link are calculated to ensure collision free motion.

### 3-Axis

# CIMdata PLM Industry Summary

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A new high speed machining module is launched with the 2015.04 release. Developed from the ground up to support the latest multithreaded 64 bit processing technology, the new finishing toolpaths offer huge performance improvements and motion optimized for high speed machining. Caching of intermediate data means editing and recalculation of toolpaths is lightning fast.

A new optimize parallel cuts option solves the problem of larger cusps on vertical walls. Additional passes, perpendicular to the initial passes, are created in these areas and this can avoid the need for time consuming rest machining in these areas.

Toolpath transform is now supported with the ability to rotate or translate to create a pattern with copies of the original toolpaths. This can reduce programming time and shorten the NC file on parts with many repetitive features.

## Simulation

The STL mesh of the stock after material removal simulation has been much improved. Quality of the final mesh is enhanced and the number of triangles has been reduced making the mesh more suitable to use as a basis for subsequent rest machining.

A new right mouse button context menu has been added to the simulation window. This allows the user to quickly access commonly required functions such as view and visibility options.

The machine definition has been improved with new features to make building complex machines easier. Multiple objects can be selected and manipulated together with new object highlighting showing exactly which parts of the machine are active. Transformations now have an angle property making it quicker and easier to define these. Collision detection has also been revised with new methods to define collision pairs, making it easier to define only the collision conditions you are looking for.

The 2015.04 release is now available to all partners from the customer download area at [www.ModuleWorks.com](http://www.ModuleWorks.com). Contact ModuleWorks for further information.

 [Click here to return to Contents](#)

## ***Pilot Helmet Flies High With WorkNC***

29 April 2015

WorkNC partnered with DMG Mori Seiki and Hitachi Tool to produce an intricate lifesize model of a pilot's head and helmet for displaying on their booth at the Le Bourget International Paris Air Show in June.

The bust was machined from 10 aluminium blocks using WorkNC's diverse 2D 3-axis, 3+2-axis and 5-axis toolpaths, all programmed with the latest release, Version 24.

Thanks to the new Transformation functionality, toolpaths only had to be created for half the helmet. Symmetrical toolpaths were then reproduced with a single mouse click, eliminating additional calculation time, meaning the Mori Seiki DMU 60 eVo linear machine could start cutting metal considerably sooner.

DMG Milling Product Manager Denis Vernier says: "And there was never any danger of a costly

# CIMdata PLM Industry Summary

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collision, as WorkNC's collision detection function includes the machining environment, tool holder, stock, and the machine itself.

“Adjustments were not required to the post processor – the initial program was operational immediately, and whether it was a question of 5-axis positioned or 5-axis simultaneous strategies, the different machining phases succeeded each other seamlessly.”

WorkNC CAD/CAM Applications Engineer Jean Philippe Rey says the DMU 60 eVo was ideal for producing the extremely complex helmet, as it combines the flexibility of modern universal milling machines with the performance of vertical machining centres. Using cutting tools from Hitachi, the NC swivelling rotary table allowed 5-axis simultaneous interpolation for optimal surface machining.

“The combination of CNC and cutting tools was perfect to machine the new reroughing toolpath which generated optimised, smooth trajectories, giving improved surface quality in all the reroughing zones – both vertical and planar. No polishing operations were needed after machining.”

The helmet also benefitted from the Machining Context function, which grouped together all the different elements relative to the machine configuration. Denis Vernier says: “This was essential for such diverse WorkNC functionality as collision detection and automatic linking of 5-axis assembled toolpaths, which allowed us to set up all clamping systems and other fixtures to work safely, and within the limits of the machine tool.”

Because the part was so complex, there were numerous rest material zones, especially around the visor and padding zone where the helmet links to the pilot's head. It meant WorkNC's new Rest Material Display complete analysis tool was used extensively in preparing toolpaths, by quickly identifying the zones. “This provided important time savings, especially for roughing routines, in order to minimise the zones before the finishing phase.”

With 100 hours of CAD preparation, 120 hours of CAM programming, and 170 hours of machining time, Jean Philipp Rey says the WorkNC, the Hitachi cutting tools and the DMU 60 eVo “excelled beyond all expectation” with rapid and automatic programming, safe and reliable toolpaths, and high performance machining, to produce the helmet for exhibiting at the prestigious air show.

WorkNC is part of the Vero Software Group. 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.

 [Click here to return to Contents](#)

## ***SAP Innovation Management Fosters Creative Work Culture***

27 April 2015

In an effort to help companies foster innovation and rapidly turn product and service ideas into value, [SAP SE](#) today announced the global availability of a new innovation management

# CIMdata PLM Industry Summary

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application. Comprising unique products, services, processes, methodologies and governance, the SAP Innovation Management solution helps companies establish a creative culture that overcomes departmental silos and unleashes the power of innovation.

The pace of technological advance is constantly increasing and puts pressure on manufacturers to be more effective in innovation. At the same time, most companies do not fully leverage the innovation potential of their employees and partners, due to a lack of communication and ideas that are still kept in organizational silos. To meet these challenges, SAP Innovation Management powered by SAP HANA was developed to manage ideation with innovative technology. It enables customers to find and link similar ideas and subject matter experts inside and outside the organization leveraging Big Data capabilities. SAP Innovation Management is also integrated with the SAP Portfolio and Project Management application, allowing companies to bridge the chasm between idea and innovation.

SAP Innovation Management and additional innovation services from SAP, including advisory service for innovation management and design thinking workshops, help organizations to establish a flexible and iterative ideation process that is seamlessly integrated into development in order to accelerate the pace of innovation and to convert ideas into inventions into economic success.

“Since 2010, SAP’s innovation-led strategy has resulted in expansive increases in customers, total revenue, market value and profitable growth. But finding the right ideas is sometimes like looking for the needle in the haystack,” said Hans Thalbauer, senior vice president, Line-of-Business Solutions for Supply Chain, SAP. “SAP Innovation Management helps SAP customers to innovate with us, resulting in more motivated employees, more loyal customers and more sati

 [Click here to return to Contents](#)

## ***Synopsys' New DesignWare Hybrid IP Prototyping Kits Accelerate IP Prototyping, Software Development and Integration***

29 April 2015

Synopsys, Inc. today expanded its IP Accelerated initiative with support for ARM® processors with the new [DesignWare® Hybrid IP Prototyping Kits](#). The kits enable designers to prototype the ARM processor and memory elements of a design in a virtual environment for superior debug visibility, and to develop software for the DesignWare interface IP in an FPGA-based environment for high-performance execution with real-world interface connectivity. The Hybrid IP Prototyping Kits accelerate IP development by combining a Synopsys Virtualizer™ Development Kit (VDK) with a DesignWare IP Prototyping Kit consisting of a HAPS®-DX FPGA-based prototyping system with a DesignWare IP reference design. The VDK includes a virtual prototype of the ARMv8 Base Platform containing an ARM Cortex®-A57 plus Cortex-A53 big.LITTLE™ system. The Hybrid IP Prototyping Kits accelerate prototyping, hardware and software integration and system validation, enabling designers to start software development months earlier in the design cycle.

"Using Synopsys' hybrid prototyping solution enabled our design team to complete software development for our ARM-based system almost 20 days ahead of schedule," said Yukihiro Urakawa, Technology Executive, Logic LSI Design Division at Toshiba. "Even after the board with our own IC was available, we found that Synopsys' hybrid solution continued to aid in our software development, because its internal view of the system and precise control accelerated our debug. The seamless combination of the virtual development kit, HAPS FPGA-based prototyping system and DesignWare IP reference drivers gave us a critical time-to-market edge in the competitive image processing market."

# CIMdata PLM Industry Summary

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The DesignWare Hybrid IP Prototyping Kits accelerate IP prototyping and software development:

Linux® software stack and drivers as well as a pre-verified DesignWare IP reference design accelerate hardware and software development and allow the user to start implementing and validating IP in an SoC context in minutes

The VDK enables efficient non-intrusive debug control and visibility. It is compatible with the industry's most popular software development tools including the ARM DS-5 Development Studio, Lauterbach TRACE32® and GNU GDB

The IP Prototyping Kit enables designers to accelerate the integration of IP into their target SoC, optimize the IP configuration and develop drivers and software applications with real world I/Os and hardware

"With the increase in software content for multi-core 64-bit ARMv8-based systems, developers are relying on prototyping solutions to help them start software development well before the hardware is available," said Chris Rommel, executive vice president of VDC Research. "By combining the benefits of FPGA-based and virtual prototypes into a single hybrid solution, Synopsys is giving developers the best of both worlds by enabling them to accelerate IP prototyping, software development and integration, and ultimately giving design teams a significant head start."

"Our IP Accelerated initiative goes beyond the traditional approach of providing IP by helping designers manage the growing software content and increasing complexity of their chips," said John Koeter, vice president of marketing for IP and prototyping at Synopsys. "As part of the IP Accelerated initiative, the DesignWare Hybrid IP Prototyping Kits provide design teams with the benefits of both virtual and FPGA-based prototyping in one integrated solution, enabling designers to start software development and system integration much earlier in the project lifecycle."

 [Click here to return to Contents](#)

## ***Waterjet CAD/CAM Software Streamlines Cutting Path Process***

27 April 2015

Flow International offers FlowXpert 2015, the latest version of its FlowXpert 3D CAD/CAM software featuring faster programming for waterjet applications. The platform expands on the company's 2D FlowMaster software and includes design functionality powered by SpaceClaim, an integrated 3D modeling tool with flow sequencer. The integrated CAD/CAM capabilities streamlines the pathing process, adding flexibility for users performing waterjet cutting, resulting in faster programming.

The company also offers its Mach 3 waterjet system combining motion control, high-pressure components and pump into a single compact machine.

 [Click here to return to Contents](#)

