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Acquisitions

Cisco Completes Acquisition of Luxtera

6 February 2019

Cisco announced it has completed the acquisition of privately-held Luxtera, Inc, a semiconductor company that uses silicon photonics to build integrated optics capabilities for webscale and enterprise data centers, service provider market segments, and other customers. Cisco plans to incorporate Luxtera's technology across its intent-based networking portfolio, spanning enterprise, data center and service provider markets.

Cisco paid \$660 million in cash and assumed equity awards for the acquisition of Luxtera.

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Company News

Altair Expands Offering to Include Illumination Design & Analysis Software

6 February 2019

Altair high-performance computing and data intelligence, is pleased to welcome Lambda Research Corporation to the Altair Partner Alliance (APA).

Altair offers on-demand, complementary access to a broad spectrum of software applications from over 55 companies in Altair's Partner Alliance. Altair's customers are able to leverage a wide range of software tools from a centralized source, helping them reduce time to market, increase intelligent design, and make smarter decisions faster.

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Lambda's TracePro is used in a broad range of industries. Almost any application that uses light can take advantage of TracePro's design, analysis, optimization, and virtual prototyping capabilities. TracePro can be applied to lighting, consumer electronics, automotive, aerospace, defense, medical, and energy industries.

"We are pleased to offer this tool to our customers as part of our new partnership with Lambda," said Uwe Schramm, chief technical officer, Altair. "Light and optics simulation has become more and more important and this offering will round out our multi-physics portfolio."

TracePro is a powerful illumination and non-imaging optical design and analysis program with an easy-to-use graphical interface. Its solid modeling, Monte Carlo ray tracing, and optimization features make it a versatile tool for illumination designers and optical analysts.

"Lambda is pleased to be able to offer TracePro to Altair HyperWorks™ users through the Altair Partner Alliance," said Edward Freniere, president of Lambda Research Corporation. "It will also be exciting to see what Altair users can accomplish with TracePro using its powerful optical design environment to accelerate product development."

An introductory webinar for TracePro will be held on February 28 at 10 a.m. EST. For more information about the software, please visit the product page for TracePro.

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Aras Partners with VCollab for Enhanced Management of Simulation Results

5 February 2019

Aras today announced a partnership with Visual Collaboration Technologies (VCollab) for simulation visualization, post processing, and reporting. Aras will use the VCollab technology in Simulation Process & Data Management (SPDM) processes across the lifecycle.

Enabling simulation results automatically in the product configuration – including variants and options – provides a closed-loop for traceability to reduce physical testing, verify requirements, and improve design-space exploration. Aras views better tool chaining and data management of simulation results as foundational to Digital Thread enablement and strategic initiatives such as additive manufacturing, generative design, and Digital Twin simulation.

VCollab reads simulation results from a wide variety of formats and makes them available for visualization and analysis purposes. With Aras' SPDM capabilities and VCollab working together, simulation experts can better perform cross-discipline analysis, analyze results, and create reports that include 3D content.

"VCollab's tool-independent, multidisciplinary visualization capabilities are really well-aligned with our open approach and full lifecycle perspective," said Malcolm Panthaki, VP of Analysis Solutions at Aras. "Using VCollab's capabilities in our SPDM provides market leading automation to make simulation results accessible to everyone across the enterprise through dynamic reports, while reducing cycle times and redundant administrative tasks for the simulation analyst."

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“Our high-performance web-deployed visualization, powerful data mining and automated report generation with dynamic 3-D content make key CAE results accessible to everyone on the Aras platform,” said Prasad Mandava, Co-Founder and CEO of VCollab. “By combining Aras’ highly scalable platform with our ultra-fast post processing of large CAE files, global companies can further improve simulation throughput and analyst productivity.”

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Cognizant Named a Leader in Worldwide Manufacturing Product Lifecycle Management Consulting

1 February 2019

A market intelligence firm has named Cognizant a leader in its report. The report assesses nine major Product Lifecycle Management (PLM) strategic consulting vendors. Positioning in the report reflects a vendor's current capabilities, services, and alignment to customer needs. The report analyzes how well a vendor builds and delivers capabilities that enable it to execute its chosen strategy in the market as well as how a vendor’s future strategy aligns with what customers will require in three to five years. Placement in the report is based on detailed surveys and interviews with vendors, publicly available information, and end-user experiences.

Positioned in the Leader’s Category, Cognizant is differentiated by strong expertise in the healthcare and consumer products industries with a rapidly growing practice in discrete manufacturing, including automotive and high tech. The report notes that as companies increasingly leverage cloud, mobile, big data analytics, and IoT technologies, Cognizant’s focus on platform technology enablement increases the time, quality, and delivery of new products and services. The report states that “historically strong in consumer goods, life sciences, and oil and gas, Cognizant has ramped up its focus and capabilities in growth segments such as automotive, machinery, and high tech — really any industry that has a need for design, innovation, analytics, and decision support for connected products.”

“The entire spectrum of today’s businesses is being transformed by digital technologies and, increasingly, new products are connected with the ability to generate immense amounts of data,” said Frank Antonysamy, Global Markets Head Connected Products, Cognizant Digital Business. “With the rapid pace of product innovation in a world where everything is connected, PLM platforms are crucial to tapping into the data generated and applying that information to the entire lifecycle of a product. We are proud and excited to be named a Leader in PLM Strategic Consulting... Our team is committed to helping businesses adopt a modern approach to harnessing the data originating from connected devices and adopting a digital PLM architecture in order to be nimbler, more flexible and agile in managing the life span of their products.”

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Cognizant Names Brian Humphries as CEO, Succeeding Company Co-Founder Francisco D'Souza

6 February 2019

Cognizant announced that its Board of Directors has named Brian Humphries, currently the CEO of Vodafone Business, as its CEO and a member of the Board of Directors. Humphries' appointments

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will be effective April 1, 2019.

Following Humphries' appointment, Francisco D'Souza, who co-founded Cognizant and has served as CEO since 2007, will serve as full-time Executive Vice Chairman to facilitate the transition through June 30, 2019. Thereafter, he will remain on the Board as Vice Chairman.

As CEO of Vodafone Business, Humphries has been responsible for its global enterprise, consisting of all business-to-business fixed and mobile customers, as well as Vodafone's Internet of Things, Cloud-Hosting, Carrier Services and Security Solutions. Vodafone Business is part of Vodafone Group, one of the world's largest telecommunications companies. During his time leading Vodafone Business, the division accounted for nearly a third of the Vodafone Group's service revenue with approximately €12 billion in sales globally. Humphries previously held leadership positions at global technology leaders Dell and Hewlett-Packard.

"With a strong track record of success across different companies, cultures and roles, Brian is the right executive to lead Cognizant and build on its 25 years of growth, success and innovation," said Michael Patsalos-Fox, Cognizant's Chairman of the Board. "Our industry is entering a dynamic new growth stage. Brian is a broadly experienced technology executive with a proven track record of driving enterprise-wide transformation through focused execution, often in challenging and highly competitive market segments. Brian brings a global perspective and a keen knowledge of our businesses and the technologies with which we innovate. We're confident he has the ideas, energy, ambition and insights to extend the remarkable track record of success under Frank's leadership."

"It is an honor and a privilege to join Cognizant, which has been at the forefront of the digital revolution – driving innovative and transformational change for many of the largest enterprises in the world," said Humphries. "Cognizant is renowned for being laser-focused on its clients' needs, developing business solutions and services that help clients position their companies for the future. I look forward to building on the great work and collaboration Cognizant has with clients, the development of innovative solutions and its operational execution and strength. The opportunity to lead Cognizant is an exciting one."

D'Souza said, "During my 25 years at Cognizant, including the last 12 as CEO, and the last seven months as Vice Chairman, I've had a bird's-eye view of the world-changing technology revolution that is reshaping how we work, live and play. Cognizant has been fortunate to play a leading role in that transformation. While I have enjoyed serving as CEO, I believe this is the right time for me to step aside and for the Company to name a new leader to build on the strong foundations we've created and take Cognizant into the future."

D'Souza added, "The Company has the strategy and people in place to continue to deliver innovative technologies and solutions that help our customers realize their full potential in a digital world. I know Brian will help Cognizant deliver on its commitments to our clients and continue to build value for our shareholders. I am committed to continuing to support Cognizant as we make this transition and beyond as Vice Chairman of the Board. I want to thank Michael Patsalos-Fox and our fellow Board members for their support and my many colleagues for their engagement and hard work, which have made Cognizant the success it is today."

Patsalos-Fox, said, "On behalf of the entire Board, I would like to thank Frank for his incredible dedication and pioneering leadership of the Company. During his tenure as CEO, the Company increased annual revenue over ten times what it was when he took over, becoming a Fortune 200 company. And, for 11 years, the Company has been named as one of Fortune's Most Admired Companies. We are grateful that Frank has agreed to continue to serve on the Board and fortunate that

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we will continue to benefit from his experience and energy."

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ESI Group nominates its new Chief Executive Officer Cristel de Rouvray

1 February 2019

ESI announces the appointment of Cristel de Rouvray as Chief Executive Officer, effective the 1st February 2019. Cristel de Rouvray, age 42 and previously Board Leader of the Group and an Executive at an American Non-Profit Organization, succeeds Alain de Rouvray, founder of the company who remains Chairman.

Cristel de Rouvray has a long track record with ESI Group and has been an ESI Board member since 1999. Appointed Board Leader, she served as Chairwoman of the Compensation, Nomination & Governance Committee, as project leader for succession planning, and as head of an operational committee for critical Human Resources related topics. She has been a key driver in building and supporting ESI's talent development and management decisions. Through this experience, Cristel has gained both a deep understanding of ESI's expertise, market, people and culture, and has successfully established a productive working relationship with the industrial ecosystem, the Board, the Group Executive Committee and key managers.

Alain de Rouvray, Founder and Chairman, comments: "Reaching the conclusion of a multi-year process of managing my succession as CEO of the company, the Board has decided that Cristel is the best candidate to take the CEO position. Her deep knowledge of our company, her commitment over the past 18 years, her remarkable management and business intelligence skills, and her successful relationship with the leadership team are major and decisive assets as we move the company forward and capitalize on the huge opportunities in front of us. I will actively support Cristel to ensure that our culture of innovation, as well as our business and social ethics, are preserved in this challenging period. I am committed to aiding our new leadership team to navigate the accelerated and changing landscape in which we find ourselves and our business."

Cristel added: "I am fully energized to take on this CEO role in the midst our transformation as we position our company as the essential partner for industrialists aiming for zero real tests, zero real prototypes. ESI Group, over decades, has built a solid foundation of amazing talent, customer credibility and inspiring solutions, with consequent and wide recognition from our peers, partners and customers. My job, and that of our next-generation leadership, is to unleash, with the active support of the Board and its Chairman, this legacy on the strategic and socially responsible mission of enabling industry to innovate in the face of mounting expectations of the safety, sustainability and relevance of the products they develop, manufacture and support."

Over the past 14 years, Cristel has successfully held Executive roles at College Track, an American non-profit organization. Founded by Laurene Powell Jobs, this organization is recognized for its excellence in helping, to date, more than 3000 youth from low income neighborhoods to enter and graduate from college. She has partnered closely with the College Track CEO and Board of Directors on the organization's strategy and execution, acting as a catalyst for tenfold growth over the past decade.

Cristel has dual French and US American nationality. She holds a BA in Economics and a Master in International Policy Studies from Stanford University, where she graduated Phi Beta Kappa. Cristel

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received a PhD in Economics from the London School of Economics (LSE) where she earned the prize for the best thesis in her field.

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Graphcore leverages Mentor DFT solutions to speed time to market for innovative AI acceleration chip

6 February 2019

Mentor, a Siemens business, announced that artificial intelligence (AI) semiconductor innovator Graphcore (Bristol, U.K.) successfully met its silicon test requirements and achieved rapid test bring-up on its Colossus Intelligence Processing Unit (IPU) by using Mentor's Tessent™ product family.

Graphcore's recently announced Colossus IPU targets machine intelligence training and inference in datacenters. The first-of-its-kind device lowers the cost of accelerating AI applications in cloud and enterprise datacenters, while increasing the performance of both training and inference by up to 100x compared to the fastest systems today.

Graphcore required a DFT solution that could reduce the cost and time challenges associated with testing the Colossus IPU's novel architecture and exceptionally large design. Integrating 23.6 billion transistors and more than a thousand IPU cores, Colossus is one of the largest processors ever fabricated.

Mentor's Tessent is the market leading DFT solution, helping companies achieve higher test quality, lower test cost and faster yield ramps. The register-transfer level (RTL)-based hierarchical DFT foundation in Tessent features an array of technologies specifically suited to address the implementation and pattern generation challenges of AI chip architectures.

Graphcore leveraged these capabilities and the Tessent SiliconInsight integrated silicon bring-up environment on Graphcore's Colossus IPU to meet its test requirements, while minimizing cycle time for DFT implementation, pattern generation, verification and silicon validation.

"We used Mentor's fully automated Tessent platform for our series of initial silicon parts, together with an all-Mentor DFT flow, allowing us to ship fully tested and validated parts within the first week," said Phil Horsfield, vice president of Silicon at Graphcore. "We were able to have Logic BIST, ATPG and Memory BIST up and running in under three days. This was way ahead of schedule."

Research firm IBS, Inc. estimates that AI-related applications consumed \$65 billion (USD) of processing technology last year, growing at an 11.5 percent annual rate and significantly outpacing other segments. This processing demand has until now been supplied by microprocessors not fully optimized for high AI workloads. To meet this growing demand while significantly lowering computational cost, more than 70 companies have announced plans to create new processing architectures based on massive parallelism and specialized for AI workloads.

"Hardware acceleration for AI is now a very competitive and rapidly evolving market. As a result, fast time to market is a leading concern for this segment," said Brady Benware, senior marketing director for the Tessent product family at Mentor, a Siemens business. "Companies participating in this market are choosing Tessent because its RTL-based hierarchical DFT approach provides extremely efficient test implementation for massively parallel architectures, and Tessent's SiliconInsight debug and characterization capabilities eliminate costly delays during silicon bring-up."

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HCL Establishes New Office in The Hague and Celebrates 20 years in The Netherlands

4 February 2019

HCL Technologies (HCL) announced the opening of a new office in The Hague, expanding its presence in the Netherlands. From its new state-of-the-art office, HCL will have a core focus on offering next-generation solutions and the ability to serve major blue-chip organizations in the Netherlands and in Europe. This further strengthens its position as one of the fastest growing technology companies in the region.

“This is an incredible milestone marking HCL’s long legacy and strong relationships with customers in the Netherlands,” said Sudip Lahiri, SVP and Head of Financial Services in Europe, HCL Technologies. “We’ve had the privilege of working with some of the region’s largest blue-chip companies and we look forward to continuing to grow our customer base even further, especially with our Mode 2 & Mode 3 offerings. Our new office in The Hague places us right at the heart of the Netherlands’ business district, where we can work even more closely with our clients’ ecosystem and continue to drive our business growth.”

HCL has been supporting European businesses from its offices in the Netherlands for the last 20 years. During this time, HCL has empowered organizations to embark on their digital transformation journey, helping them to become more competitive and operationally efficient. Through design thinking, cybersecurity, cloud-native services and the ability to leverage new data and analytics capabilities, HCL helps its clients to create more agile, customer-centric approaches to service delivery.

The new office was officially opened by HCL’s SVP and head of financial services in Europe, Sudip Lahiri, during an inauguration ceremony. The ceremony was attended by leading business dignitaries, including Ms. Pauline Krikke, Mayor of The Hague, Mr. Venu Rajamony, Ambassador of India in The Netherlands, Ms. Anke Schlichting, CTO of Aegon Netherlands and Mr. Jesper Erichsen, CIO Leaseplan.

Some of HCL’s key milestones in The Netherlands include:

- The opening of HCL’s first ever office in The Hague, Netherlands in 1998 followed by two other offices in Amsterdam in 2017
- Successful strategic business transformation engagements with leading global customers across verticals in the region, including many financial services companies like Aegon and Leaseplan
- The inauguration of HCL and Aegon’s joint cXstudio in The Hague in 2015, creating a co-innovation lab for superior customer experience.
- HCL’s ‘Scale Digital Delivery Center’ in Amsterdam on digital transformation programs in scale & distributed agile delivery models.
- HCL’s Fintech Innovation lab in Amsterdam in collaboration with one of the region’s largest financial services companies

“I am proud of the business prospects, local talent pool and partnership opportunities that The Hague has to offer, providing a strong draw for multinational companies like HCL who have established their roots

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in the Hague for the last two decades,” said Pauline Krikke, Mayor of The Hague. “I’m delighted that HCL, a next-gen, global technology company, has chosen our city as the base for its innovation-led projects and expanded presence in the Netherlands.”

“I am delighted that HCL is expanding its presence in the NL through an additional office in the Hague,” said Mr. Venu Rajamony, Ambassador of India in The Netherlands. “I am confident that HCL will continue to maintain its reputation of being a top class provider of services to the business community and contribute to the increased capabilities of Dutch business.”

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Infor Opens New Office in Charleston, West Virginia to Serve U.S. Government Agencies

7 February 2019

Infor today announced that it has opened a new office in Charleston, West Virginia, to run cloud applications for U.S. Government Agencies (at the federal, state and local level). The office also will work closely with government contractors supporting these agencies.

With more than 17,000 employees, Infor offers purpose-built software applications for select industries, including the public sector. Over 1,500 state, local and federal entities run CloudSuite Public Sector.

Infor anticipates that it will hire 100 technical employees in Charleston in the disciplines of software engineering, cloud operations, and consulting and support services to support its public sector customers. The office will expand as Infor adds additional customers.

“I am thrilled that Infor has chosen to locate a regional office in Charleston, bringing with it more than a hundred new, good-paying tech jobs to the state,” said U.S. Senator Joe Manchin of West Virginia. “I’m pleased to have had the opportunity to meet with Infor CEO Charles Phillips and his team on a number of occasions over the last year to discuss our skilled workforce and solidify the positive value of doing business in the Mountain State.”

Infor is partnering with Marshall University in Huntington, West Virginia, and with West Virginia State University in Institute, West Virginia (just northwest of Charleston), to build a pipeline of skilled talent that is trained in software engineering, cloud operations, and support services related to Infor products. These universities are part of Infor’s Education Alliance Program (EAP), which provides member organizations access to free software used in business computing, as well as hands-on technical training.

“I am thrilled Infor has decided to open a new office in Charleston,” said U.S. Senator Shelley Moore Capito of West Virginia. “This announcement helps reaffirm our ability to compete for high-skilled jobs and attract investment from leading global firms, like Infor.”

Infor’s Coleman Artificial Intelligence Platform is named after the inspiring physicist and mathematician Katherine Coleman Johnson, whose trail-blazing work at NASA helped U.S. astronauts land on the moon. Coleman graduated with highest honors from West Virginia State College (now West Virginia State University), earning bachelor’s degrees in mathematics and French.

“I can’t tell you how proud I am to welcome Infor to the Mountain State,” said West Virginia Governor Jim Justice. “I applaud their commitment to hiring West Virginians and to working with our local higher-education institutions to help keep more of our graduates right here at home. With the expansion of Infor, we can better attract other growing tech companies and show them why doing business in West

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Virginia is a great investment.”

Infor CEO Charles Phillips said, “I thank Senators Joe Manchin and Shelly Moore Capito and many others who assisted Infor in establishing Charleston as a major cloud operations center. Infor has operations in over 200 countries and territories but selected the great state of West Virginia for this important initiative.”

The new Infor 12,000-square-foot office is set up to support 100+ employees. It is located on the 6th floor of the 18-story Laidley Tower building at 500 Lee Street East in downtown Charleston – one block away from the Charleston Transit Center and next to numerous downtown businesses.

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Komprise Raises \$24M Series C Funding to Support Global Expansion

5 February 2019

Komprise announced it has secured \$24M in Series C Investment. The funding round is led by Top Tier Ventures, with strategic investment from new investor Western Digital Capital, the strategic investment fund of Western Digital Corp., along with participation from existing investors, Canaan Partners and Walden International. This new funding round, which brings the total financing since inception to \$42M, will be used globally to boost sales, marketing, product development and customer support.

In 2018, Komprise achieved a number of milestones including:

- Solid revenue growth of more than 200% quarter-over-quarter
- A 600% growth of footprint in existing customers who are using Komprise to manage more of their data
- Enterprise customers are now using Komprise across their entire infrastructure to manage hundreds of petabytes of data
- Doubling of its employee headcount globally
- Growth in EMEA with significant customers and partners now in the UK, Ireland, Switzerland, Germany, Spain and the Netherlands
- The launch of three major product updates including Ongoing Lifecycle Management, Data Access Anywhere, and NAS Migration

Komprise enables customers to swiftly adapt their data management to suit a range of business requirements. The Komprise Intelligent Data Management platform allows organizations to manage the complete data lifecycle with data analytics, replication, archive and effortless migration. The solution is designed to address today's massive scale of data and enables customers to dynamically opt for the right storage solution at the right time, saving money and enhancing data management.

"We have been watching the company closely, and are impressed with how quickly enterprises are adopting Komprise," said Garth Timoli, general partner at Top Tier Ventures. "Data is growing exponentially and the Komprise software-based business model is uniquely positioned to address this space. We know Komprise is poised to scale massively, led by its proven founders and executive team."

CIMdata PLM Industry Summary

"The increasing volume, variety, velocity and value of unstructured data is driving the need for more efficient and flexible storage architectures," said Mark Long, president, Western Digital Capital. "Komprise's data management platform provides exceptional analytics capabilities and highly flexible management of data assets, enabling more efficient on-premises and hybrid cloud architectures. Our investment in Komprise complements our focus on helping our customers create infrastructures to manage, preserve, experience and unlock the true potential of their data."

"We are pleased that both new and existing investors have demonstrated their support and we will look forward to using this new cash infusion to significantly grow our product, customer and partner base," said Kumar K. Goswami, CEO Komprise. "We are always looking for new and innovative ways to work, and as organizations continue to store more data, at an unprecedented scale, we are seeing more customers reevaluate their data management system."

"I am impressed by Komprise and the way it solves unstructured data management issues. The solution just works, seamlessly, and this is why end users love it," said Enrico Signoretti, IT Analyst, GigaOm.

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Lectra appoints Gianluca Croci Managing Director of Lectra France

7 February 2019

Lectra announces the appointment of Gianluca Croci as Managing Director, Lectra France. Based in Paris, Gianluca Croci reports to Fabio Canali, President, Southern Europe & North Africa.

Gianluca Croci has more than 20 years of experience in the fashion industry. He began his career in 1998 in the department store chain La Rinascente before joining the Giorgio Armani group in 2002, where he managed, from 2006 to 2015, the Belgian and French subsidiaries. Gianluca Croci later held management positions for major fashion and luxury brands, such as Roberto Cavalli and Marcolin, and was recently the Sales & Marketing Director for Technogym France, a designer of sports equipment.

Gianluca Croci will fulfil Lectra's promise to fashion companies in France: to facilitate the digitalization of their know-how in order to empower them to make a successful transition to Industry 4.0. This ambition is being realized by the 2018 launch of the revolutionary solution, Fashion On Demand by Lectra, which enables fashion companies to customize a garment or make it to measure. This end-to-end personalization offer-the first of its kind-complements a portfolio that is known to solve the pressing challenges confronting the fashion industry. The latest, Kubix Link, developed by Kubix Lab, a start-up acquired by Lectra in January 2018, is an innovative platform for managing product information.

"France is known worldwide for being a leader in fashion and technological innovation. It is a country where brands, retailers and manufacturers have already begun their transformation towards Industry 4.0. I am proud to support our customers' pursuit of greater connectivity and collaboration in their operations, as well as in assisting them to make the shift to personalization," says Gianluca Croci.

Gianluca Croci and his teams are committed to providing their French customers with the high level of expertise and service that characterizes Lectra's value proposition.

Gianluca Croci's efforts are also tied to the dynamic activities of Lectra Southern Europe & North Africa. There are many synergies in the region's fashion industry, ranging from the sharing of expertise between French and Italian companies to the integration into their ecosystem of the Moroccan and

Tunisian subcontractors.

"Our regional organization enables us to be closer to our customers' challenges and to provide them with the support they need to achieve their ongoing targets. Gianluca Croci will lead the French teams and contribute to the region's growth," says Fabio Canali. "His extensive experience with major Italian and French companies brings new energy to the development of Lectra France."

Gianluca Croci is a graduate of the European Institute of Business Administration (INSEAD), Fontainebleau (France), and the Catholic University of the Sacred Heart, Milan (Italy).

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Manufacturers Lead Digital Transformation Efforts Using PTC and Rockwell Automation Technology Suite

5 February 2019

PTC and Rockwell Automation, Inc. announced from the 2019 ARC Industry Forum that in the last three months a dozen manufacturers across a variety of countries and industries have selected the *FactoryTalk InnovationSuite, powered by PTC*, solution as part of their digital transformation initiatives. With the joint solution offering from PTC and Rockwell Automation, these companies are able to connect disparate factory systems and gain actionable insights into their operations.

These strategic customer wins validate the powerful strategic alliance between PTC and Rockwell Automation, which was announced just last year. For PTC, this represents new customers in previously untapped industry verticals, including food and beverage, mining, pharmaceuticals, and consumer packaged goods. The strategic alliance has also deepened the reach of PTC into growing geographic markets, including China, South Korea, the Middle East, and the South Rim. Lavifood, a Vietnamese company that provides fresh fruits, vegetables, and agricultural products to global markets, is one example of how this technology can be deployed to enable companies to make smarter, data-driven business decisions. In addition, Rockwell Automation has implemented *FactoryTalk InnovationSuite, powered by PTC*, in several of its own plants.

"With the manufacturing industry at the forefront of IoT adoption, the strategic alliance between PTC and Rockwell Automation has enabled each company to add value and expertise to a simplified solution, breaking down technological barriers and driving digital transformation opportunities for manufacturers in geographic regions and industry verticals worldwide," said Jim Heppelmann, president and CEO, PTC. "The early successes indicate the industry's readiness and need for more complete IoT solutions, and as we look to the future, we are confident that our combined approach will have a long-lasting and positive impact on the industries we service."

Launched in November 2018, *FactoryTalk InnovationSuite, powered by PTC*, provides customers with an unprecedented ability to grab vast amounts of data from multiple data sources quickly, organize it, and add insights. It improves connectivity to operational technology (OT) devices on the plant floor, natively supporting the rapid connection of legacy and new industrial equipment. By merging this data with data from information technology (IT) applications and systems, decision makers can gain a complete picture on the health and performance of their operations from anywhere in the enterprise.

FactoryTalk InnovationSuite, powered by PTC, will be demonstrated at the annual LiveWorx19® conference, held on June 10-13 in Boston. For more information,

visit www.liveworx.com.

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MSC Software Enables Turkish Engineers of Tomorrow

4 February 2019

MSC Software Corporation, a part of Hexagon, today announced a partnership with major Engineering Universities in Turkey which will kick off the MSC One bundle dedicated to universities. This initiative is supporting engineering education by providing access to the broad array of MSC products through the MSC One licensing system.

Capitalizing on the MSC One licensing system, MSC have invested more than 5 M€ worth of commercial software with major campuses in the Istanbul area. These include Istanbul Technical University, Marmara University and Yıldız Technical University, empowering tens of thousands of students with an easy way to capitalize on a robust digital thread.

Today's engineering student requires a comprehensive education that includes knowledge and experience in industry standard CAE tools to design, test and analyze ideas and solve a variety of problems. Moreover, the landscape of CAE technology is changing rapidly. Therefore, MSC offers targeted academic bundles, designed to provide students with a complete collection of the most current software applications for FEA, Motion, and Multidiscipline CAE Simulation. By making the most up-to-date software technology available to universities at nominal costs as well as numerous free learning resources, MSC makes it easy to keep academic engineering programs engaging, dynamic and, most importantly, relevant.

The MSC One bundle for Universities is based on MSC One - an expanded products token system that allows engineers to take advantage of the breadth and depth of MSC's simulation portfolio within a flexible token-based licensing system. Offered on an annual subscription basis, MSC One provides efficient implementation and access to a suite of multidisciplinary engineering software tools. The academic licenses provide the same capabilities as commercial licenses for the software products in this bundle - but on a reasonable budget.

MSC representatives visited education institutions in Turkey during the last month and introduced the University MSC One bundle. "This is just the beginning," says Olivier Tabaste Director Industry R&D / Academia at MSC Software, "based upon the very warm welcome we received from our new partners, MSC subsidiaries are looking for replications across EMEA."

MSC's Student Editions complement the academic software offering by enabling students to improve software proficiency and use for personal and school projects by downloading the Student Edition limited versions to their personal laptops. "Getting Started" video tutorials help students quickly become familiar with the software interface and application basics. Available from the MSC Student Center, the video tutorials are a great tool for students who are using simulation software for the first time to prepare them for success in the classroom and in their future careers.

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CIMdata PLM Industry Summary

PTC Appoints Bill Brewster as Senior VP and GM, Retail

5 February 2019

PTC is pleased to announce the appointment of Bill Brewster as SVP and General Manager.

In his new role, Bill will lead PTC's Retail Business Unit and will focus on anticipating and responding to PTC's customers' needs in the retail, footwear, apparel, fashion and consumer products industries. Bill will also spearhead the go-to-market and strategic growth plans for PTC's Retail Innovation Platform across multiple geographies and markets.

PTC's Retail Platform combines the industry-leading FlexPLM solution with an award-winning connectivity and artificial intelligence (AI) platform that enables brands and retailers to accelerate product development and gain insights from across the enterprise to drive better merchandising, design, and sourcing decisions.

Brewster's appointment comes at an exciting time for PTC's Retail Business Unit. Over recent years, the need for digital transformation within the retail market has been matched well with PTC's growth and worldwide Retail PLM leadership position. This continued momentum validates the investments PTC has made in its product strategy and technology platform. As a result, brands and retailers can now digitize design and development processes by integrating best-in-class PLM with both 2D and 3D design, AI and augmented reality (AR). PTC's FlexPLM is the most widely adopted retail PLM solution, with the highest number of users globally.

"I am proud and delighted to be appointed SVP and General Manager of PTC's Retail Business Unit, and I'm looking forward to driving worldwide initiatives to further support PTC's customers, strategy and growth goals," said Bill Brewster. "PTC is a truly innovative company, with game-changing products, an exceptional team and some of the most iconic brands in the world as customers. It's an amazing time to be joining PTC and I'm excited to bring my experience, leadership skills and passion to PTC to help them become even more successful".

Bill has more than 20 years of management, sales and marketing experience in PLM, Supply Chain Management, 3D Design and CAD. Prior to joining PTC, Bill held various management positions at Gerber Technology where he oversaw the development of new technologies for the apparel industry and lead the global software sales, marketing and business development teams.

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Royal Enfield Enhances Design and Product Development with Dassault Systèmes Simulation Applications

6 February 2019

Dassault Systèmes is enabling Royal Enfield a unit of Eicher Motors Limited to drive innovation and efficiency across the design and product development lifecycle for all existing motorcycle models and in their recently expanded product portfolio to manufacture genuine motorcycle accessories. Royal Enfield has performed the complete piston durability and high fidelity simulation of critical parts like powertrain and chassis using Dassault Systèmes SIMULIA applications on the 3DEXPERIENCE platform for realistic simulation, before any prototyping.

CIMdata PLM Industry Summary

In the extremely competitive two-wheeler segment in India, product innovation, improved performance and reliability becomes key differentiators for companies. Product innovation, design, and manufacturing with real-time simulation are providing OEMs and their suppliers the confidence to efficiently manufacture and reduce the cost of prototyping and reduce time to market of new products. Powered by the 3DEXPERIENCE platform, Dassault Systèmes SIMULIA application delivers realistic simulation applications that enable users to explore real-world behavior of product under varying usage conditions.

Rod Giles, Lead CAE & CAD, Royal Enfield said “We have been using Dassault Systèmes SIMULIA applications for over five years now to perform realistic simulation, before any prototyping in our product innovation, development and manufacturing processes. We have successfully launched India’s first twin-engine motorcycle Interceptor and Continental 650 performing the complete piston durability using Dassault Systèmes SIMULIA. We have deployed solutions such as Abaqus, Isight, Tosca, fe-safe and Simpack to perform high fidelity simulation of critical parts like powertrain and chassis, at the design stage reducing significant costs and time in prototyping and in manufacturing.”

Pistons in internal combustion engines are subject to gas loads from combustion acting on the crown, inertial forces arising from the piston vertical motion in the bore and thrust forces acting on the edge arising from the action on the connecting rod. However, in order to correctly evaluate the durability of the piston, the effect of piston secondary motion must be taken into account. The piston secondary motion of the newly launched two-cylinder engine has been completed using Simpack. Finite element analysis of the piston was carried out at a number of discrete times using Abaqus and a fatigue analysis carried out using fe-safe, which includes temperature dependent material properties. In this way, the fatigue damage can be calculated for a given engine operating condition. The total damage is found by summing the damage in fe-safe for each engine operating condition for the complete engine durability test.

“Consumer expectations, regulatory bodies, international laws, environment concerns are constantly pushing OEMs and suppliers to innovate new products, designs, systems at much faster pace. This has reduced the time of a design concept, visualization, production manufacturing and supply chain significantly to less than two years. In such circumstances real-time simulation of the vehicle, parts and components are critical reducing the time to market and cost of testing on physical prototypes” said Samson Khaou, Managing Director - India, Dassault Systèmes. “Royal Enfield is regarded as a legend in motorcycling and we are happy that they have trusted our simulation applications on the 3DEXPERIENCE platform to enhance their product innovation journey.”

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SAP Announces 2019 Recipients of Regional Awards for Partner Excellence

31 January 2019

SAP presented 66 regional awards for partner excellence in a variety of categories at recent SAP Field Kick-Off Meetings.

The awards recognize top partners for their excellence in overall sales, innovation, technology and services, as well as in solution-specific areas.

CIMdata PLM Industry Summary

Winners of the regional awards for partner excellence were selected from SAP's wide-ranging partner base, and nominations were based on SAP's internal sales data. A steering committee composed of regional and global SAP representatives determined the winning partners in each category per region according to numerous criteria, such as sales achievement and performance.

SAP congratulates this year's top performers across the globe. Partners are essential to SAP's success, and these awards are a testament to the amazing work and value they deliver. SAP and its partners help customers adopt innovation easily, gain results rapidly, grow sustainably and run more simply with their solutions.

To see the full list of recipients list of SAP Awards for Partner Excellence in 2019, please visit <https://news.sap.com/2019/01/regional-sap-awards-for-partner-excellence-2019/>

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SAP Positioned as a Leader for Data Management Solutions for Analytics for Seventh Consecutive Year

4 February 2019

SAP today announced that it has been positioned as a leader in a global firm's analytics report — where SAP has been positioned as a Leader since 2013.

The evaluation is based on completeness of vision and ability to execute.

“We are convinced that our improvement on the ‘ability to execute’ axis in the Leaders quadrant of [the] report — as compared to the previous year — reflects the success of our customers and the value they create with SAP HANA. It's the only data management platform with a multimodel database, advanced analytics, machine learning and AI capabilities,” said Gerrit Kazmaier, senior vice president, SAP Database and Data Management and SAP Analytics. “Looking ahead over the next year, we are very focused on making enterprises more intelligent through our proven solutions for analytics and our data management portfolios available on premise and in the cloud.”

To qualify for inclusion in this report, DMSA vendors must have had to support one or more of the following four use cases identified as support for analytics: traditional data warehouse, real-time data warehouse, context-independent data warehouse, and logical data warehouse.

Asian Paints, a customer-centric Indian multinational paint manufacturer, worked with SAP to build a data platform that could support the rapid pace of growth of its business. The ability to process transactions and analytics on a single platform has allowed the company to equip its sales force with the latest information at their fingertips to better serve the needs of their customers.

“The biggest advantage of SAP HANA for us has been the speed at which we could adopt the platform,” said Harish Lade, vice president of IT, Asian Paints. “In some data pools, we have been able to achieve a reduction in data load times of around 90 percent, and by investing in SAP HANA, we have been able to scale out our IT architecture to support the growth of our business.”

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TrusTrace and circular.fashion Announce Partnership

4 February 2019

Blockchain collaboration platform TrusTrace and circular.fashion, a sustainable change agency creating product- and system innovation for a circular economy in fashion, have announced a formal partnership to help drive innovation and embed circular practices within textile supply chains.

Via its authenticated data on a consortium Blockchain along with analytics and dashboard applications for specific use cases, TrusTrace offer solutions for consumers, retailers, brands and suppliers in the fields of traceability, transparency, circularity and sustainability.

For fashion brands, the circular.fashion platform offers Circular Design Software that provides an alternative to conventional PLM (product lifecycle management) software, with additional features to help designers create products in a recyclable way.

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Events News

ASSESS Initiative Announces that Aras will be an ASSESS 2019 Congress Platinum Sponsor

4 February 2019

ASSESS Initiative, a broad reaching multi-industry initiative to facilitate a revolution of enablement that will vastly increase the availability and effectiveness of Engineering Simulation, is proud to announce that Aras will be a Platinum Sponsor for the upcoming ASSESS 2019 CONGRESS, to be held at Chateau Elan Winery & Resort, Oct 28th -30th, 2018.

Aras, the leader in open product lifecycle management (PLM) software for the enterprise, provides an open, flexible, scalable, and upgradable PLM platform that enables global companies to modernize and transform systems engineering processes across the lifecycle to connect people and product information throughout the enterprise. Aras brings a Simulation Process and Data Management (SPDM) capability into its open PLM platform to provide a way for organizations to connect simulation, and simulation experts, to mainstream engineering processes for traceability, access, and reuse across the product lifecycle.

“With the recent acquisition of Comet Solutions and its unique simulation automation platform, Aras is committed to bringing the power of simulation to everyone in the enterprise, as part of its open and flexible PLM platform”, said Malcolm Panthaki, VP of Analysis Solutions at Aras. “We are glad to support the ASSESS Congress as part of the collaborative effort of ASSESS to bring together thought leaders from various organizations to take action on improving the awareness, value and use of Engineering Simulation across the enterprise.”

The ASSESS 2019 Congress is the 4th annual congress for ASSESS organized to “enable” both strategies and relationships related to significantly increasing the use and benefit of Engineering Simulation. Key business drivers are forcing a “simulation revolution” to overcome the issue of required expertise which is limiting the expansion of Engineering Simulation usage. The theme of the ASSESS 2019 Congress is “Advancing the Engineering Simulation Revolution.”

Registration for the ASSESS 2019 Congress is by invitation only and is limited to 115 attendees.

CIMdata PLM Industry Summary

Registration will close either when all available seats are taken but no later than October 24, 2018.

“We appreciate the support from Aras and their participation at our annual congress,” says Joe Walsh, CEO and Co-Founder of the ASSESS Initiative.

The ASSESS Initiative was formed to bring together key players, both users and developers of simulation software, to guide and influence the software tool strategies for performing model-based analysis, simulation, and systems engineering with a vision “To significantly expand the use and benefit of software tools for model-based analysis, simulation, and systems engineering in the engineering applications domain.”

The ASSESS Initiative Membership program provides the ability for the ASSESS Initiative to expand its efforts and community benefits beyond the annual congress. The ASSESS Membership Program is appropriate for all organizations engaged in Analysis, Simulation, and Systems Engineering activities related to Engineered products & processes. The ASSESS Membership Program is offered in individual or group memberships. Active ASSESS Initiative Members receive access to Members Only content on the ASSESS website and a discount on the ASSESS Congress Registration Fees.

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Global Industrie Show Features Hexagon Production Software and Measurement Tools

4 February 2019

Virtual reality will immerse visitors to Hexagon’s booth at the forthcoming Global Industrie trade fair, in a complete and autonomous manufacturing process, combining production software with measurement tools.

The different stages of reverse engineering, programming, simulation, programming optimisation, and monitoring all feature in the virtual reality display, which will be accessed through a headset.

Visitors to booth 4E65 at the show, which runs from March 5 to March 8 at Eurexpo in Lyons, France, will also see demonstrations of the latest releases of four flagship brands from the Production Software business of Hexagon Manufacturing Intelligence, detailing items of new and enhanced functionality.

WORKNC handles all types of cutter geometries without any restriction. The latest version frees users from constraints due to the diversity of cutter geometries. Today's "Advanced ToolForm" technology combined with specially shaped tools (such as barrel tools) allows users to reduce machining times by 70 per cent and extend tool life by 20 per cent.

EDGE CAM continues to provide quick toolpath generation while reducing production costs. Its latest version contains three enhancements that improve performance on its calculation engine for both milling and turning operations. Regeneration times were reduced by about 20 per cent when editing angular displacement and indexing instructions. In response to the growth of hybrid manufacturing, EDGE CAM 2019 R1 also introduces a new Additive Machining module.

VISI presents direct translators to a wide range of Hexagon's mobile measuring arms and scanners. Combined with the enhancements of its dedicated module, VISI offers a new Reverse Engineering solution as well as the capability for generating stock models and castings from its existing modeling and machining environment.

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The latest version of WORKPLAN automatically consolidates different data generated on the shopfloor, offering users real time data interrogation in one single application:

- Machine status
- Alarm codes
- Types of time spent: adjustment, productive, nonproductive
- Indicator consolidations: TRS, TRG... Industry 4.0 is no longer a desire but a necessity.

There will also be a live machining demonstration featuring an AKIRA SEIKI CNC machine tool driven by EDGE CAM.

EDGE CAM, VISI, WORKNC, WORKPLAN, booth 4E65, Global Industrie 2019, March 5-8, Eurexpo, Lyons, France.

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ICCG and Infor Partner as Diamond Sponsors for the 4th Anniversary Celebration of CIO KLUB Coimbatore Chapter

7 February 2019

Independent Computer Consulting Group (ICCG), a Global Information Technology Solutions Provider for the Enterprise and Infor Gold Channel Partner announced today that, they will be Diamond Level Joint Sponsors of the 4th Anniversary celebration of the CIO KLUB Coimbatore Chapter. This event will take place on Saturday, March 23, 2019 at The Residency Towers, Coimbatore and will be attended by the members of CIO KLUB Coimbatore chapter, representatives from other chapters across India, governing body members of CIO KLUB and other invitees from the IT fraternity in & around Coimbatore.

“I’m honored to be leading the ICCG presentation efforts and share our deep industry experience with Infor M3, Infor LN and PLM solutions implementations,” said Shiv Kaushik, Founder/CEO of ICCG. “Digital transformation is impacting all manufacturing and distribution businesses. Keeping up with the pace of change, businesses need an agile and modern ERP solution that is flexible enough to handle both the opportunities and challenges they face. During our presentation we’ll present some important case studies demonstrating how we helped our customers address these challenges.”

The CIO KLUB has grown truly national with eight working chapters in India’s most strategic cities (Mumbai, Delhi, Bangalore, Pune, Chennai, Kolkata, Hyderabad and Coimbatore) and is the largest association of CIOs in India with membership limited to IT Heads, CIOs, CTOs and CISOs of enterprises. It is run by CIOs for CIOs with the key objectives being to share experience, enhance knowledge, and explore better business solutions by leveraging the collective wisdom of large number of registered member CIOs.

CIO KLUB is a non-profit and the largest Association of Chief Information Officers in India. CIO KLUB has grown truly national with eight working chapters in India’s most strategic cities (Mumbai, Delhi-NCR, Bangalore, Pune, Chennai, Coimbatore, Hyderabad and Kolkata). From a humble beginning in Mumbai with less than 30 members, CIO KLUB currently has 1200+ members across India. The primary objective is to drive the business benefit to the organizations of the Member CIOs and also help

CIMdata PLM Industry Summary

CIOs in their professional growth as effective leaders. The KLUB also encourages entrepreneurial spirit by providing a platform for sharing and generating innovative ideas in the larger interest of the community.

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Kyvos Insights to Showcase How Business Can Gain Faster Insights From Big Data at MicroStrategy World 2019

4 February 2019

Kyvos Insights, a big data analytics company, today announced the hosting of a session which will showcase how businesses can deliver faster insights from ever increasing amounts of data. The session, to be held at MicroStrategy World 2019, will take place on February 6, 2019 at the Phoenix Convention Center in Phoenix, AZ.

The session, entitled "Kyvos: Making MicroStrategy perform on Big Data," will share how Kyvos integrates with MicroStrategy's platform to deliver instant insights on Big Data stored on cloud or on-premise environments.

Ajay Anand, vice president of products and marketing at Kyvos Insights, will share how some of the largest enterprises are revolutionizing analytics using the combined power of MicroStrategy's powerful visualizations and Kyvos' capability to deliver high performance and unlimited scalability of Big Data. Fei Zhao, business intelligence analyst at Bell Canada, and Ryan Levman, performance analytics at Bell Canada, will join Ajay to highlight how Bell Canada has exponentially scaled BI with Kyvos and delivered faster time to insight for 10K+ employees.

"Enterprises are continuously evolving their BI and analytics programs to ensure they are best meeting customer and organizational needs. However, as businesses generate more and more data, finding a BI solution that supports such massive volumes of data is challenging, and that's exactly the problem we solve," said Ajay Anand of Kyvos Insights. "We're excited to showcase how, together with MicroStrategy, businesses can transform their operations and become truly driven by insights. By combining these two platforms customers have been able to achieve sub-second response times of billions of rows of data and make it accessible across the enterprise."

Kyvos Insights' participation at the conference builds on its partnership with MicroStrategy in helping businesses unleash the full potential of its big data. Kyvos Insights creates an enterprise BI consumption layer directly on the data platform allowing users to enjoy multi-dimensional analytics instantly and better gain insights from its data on the MicroStrategy interface.

Session details include:

- What: Kyvos: Making MicroStrategy perform on Big Data
- When: Wednesday, February 6, 2019 at 8:45 – 9:00am MST
- Where: Exhibit Hall, Demo Theatre

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Placing Humans at the Heart of the Factory of the Future to Achieve Operational Excellence

5 February 2019

ESI Group will exhibit at Manufacturing World Japan 2019, in Tokyo, February 6th to 8th. ESI will showcase its Virtual Reality solution for manufacturers to validate assembly and maintenance processes well ahead of production, to minimize design errors, reduce risks, and successfully scale up production.

The digital transformation is profoundly reshaping the manufacturing industry, from product development to process engineering, structuring the factory environment and planning maintenance procedures. The implementation of digital innovations such as connected objects, robots/ cobots and Augmented Reality (AR) is bringing new value to the factory floor, along with sizable opportunities to maximize product quality and productivity. For engineering teams this often translates into new layers of complexity, creating potential inefficiencies that can impact product assembly, disassembly and maintenance. When these operations involve human interactions, new technologies can be a particular source of operational uncertainty that needs to be mitigated to assure successful production ramp-up and to achieve production targets.

To answer new challenges growing at the heart of the Factory of the Future, ESI has fostered a unique and powerful Virtual Reality solution; one that enables manufacturers to evaluate ahead of time the interaction of people with products and processes.

“Virtual Reality represents a technology of the future that will have an impact on the efficiency of our developments. The factory of the future is already here,” comments Nicolas Lepape, Virtual & Augmented Reality R&T Project Manager, Safran Nacelles.

Boasting real-time and real-scale capabilities powered by realistic physics, ESI’s solution is the established leader in Virtual Reality for the industrial world. At Safran Nacelles, for example, manufacturing process engineers use IC.IDO to experience their process designs – without building full-sized prototypes. In the automotive industry, Fiat Chrysler Automotive Latin America uses the solution to analyze assemblies at different workstations throughout the general assembly production line. They test the real conditions of the product within the process, without investing in physical tooling or a pre-production vehicle. IC.IDO allows them to address ergonomics, to gain visibility in hard-to-see locations, to learn how to access hard-to-reach places, and to validate assembly devices, transfer systems, and installation processes.

Using ESI IC.IDO as early as possible, manufacturing companies can experience, validate and communicate the production process risks across the requirements of multi-disciplinary teams. By doing so, they can reduce risk and inefficiency to reach cost, quality and safety targets while scaling up production to successfully meet customer demand in a timely and cost-efficient manner.

At Manufacturing World Japan 2019, ESI will be located in the 3D & Virtual Reality Expo. Visitors will have the opportunity to experience live demonstrations of ESI IC.IDO running on Head-Mounted Displays (HMD) and powered by finger tracking.

ESI teams look forward to meeting you on booth West 2-73.

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Sigmatix will showcase their precise, easy-to-use mechanical variation and tolerance analysis

CIMdata PLM Industry Summary

software at SOLIDWORKS World 2019

5 February 2019

Sigmatix announced they will be a Silver Sponsor of SOLIDWORKS WORLD 2019 to be held February 10-13, 2109 in Dallas, Texas. The Sigmetrix team will be at booth 429 in the Partner Pavilion to demonstrate their tolerance analysis products and discuss their broad scope of GD&T and MBD Training options. Ed Walsh, VP of Sales, will present ‘Quality, Cost, and Innovation in the Medical Device Industry’ in the Certified Partner Theater on Monday evening at 7:15.

As a SOLIDWORKS Certified Gold Partner product, CETOL 6 σ for SOLIDWORKS couples the power and functionality of SOLIDWORKS’s parametric design capabilities with the precise calculations and advanced mathematical technologies of CETOL 6 σ . CETOL 6 σ uses a direct mathematical method that enables users to see the results of their tolerance changes immediately rather than having to rerun simulations each time. CETOL 6 σ allows companies in virtually all industries to gain profound insight into the behavior of their products. Whether it’s a powertrain being designed in the automotive industry, or a medical device, or a wind turbine, CETOL 6 σ for SOLIDWORKS is the dominant solution for tolerance analysis throughout the world. It is an ideal tool for many other industries as well, including aerospace and defense, heavy industry, HVAC, consumer products, safety, security, and electronics.

“Engineers need the type of functionality that Sigmetrix delivers. This is why Dassault Systèmes works closely with Sigmetrix. They have a strong reputation in the industry for delivering tolerance analysis tools and GD&T training that design engineers need,” said Nick Iwaskow, Director, Alliances & Partnerships, SOLIDWORKS, Dassault Systèmes. “It is all about innovation and successful product development. CETOL 6 σ and SOLIDWORKS give engineers the tools and productivity to achieve that goal.”

“We have been a SOLIDWORKS Solution Partner since 2008 and attained Gold Product Certification of CETOL 6 σ for SOLIDWORKS in 2016. Sigmetrix attained this significant designation by meeting the stringent SOLIDWORKS criteria for fully integrated interoperable functionality, quality, industry expertise, and high levels of customer satisfaction. The tight integration improves the user experience and accelerates the design to manufacturing cycle, allowing more robust products to hit the market sooner at reduced cost,” says James Stoddard, President of Sigmetrix.

In addition to demonstrating CETOL 6 σ , Sigmetrix will be showing the latest addition to their portfolio of products, EZtol. This 1-Dimensional tolerance stackup analysis program is designed to assist in understanding the impact of the accumulation of part-level dimensional variation and part-to-part assembly variation sources and the impact that they have on assembly-level requirements.

Join over 5,000 engineering and manufacturing peers for the largest gathering of SOLIDWORKS users, resellers, employees, solution providers, entrepreneurs, educators and students. For four days attendees can attend keynote presentations from industry leaders, see the latest product developments, learn solutions to business challenges, connect with other experts and visit the Partner Pavilion to preview new technology, and view hundreds of innovative products designed by SOLIDWORKS customers. To learn more and register visit: <https://sww.solidworks.com/solidworks-world-2019/>

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CIMdata PLM Industry Summary

Tacton Is Showcasing Its Newest Design Automation Solution at SOLIDWORKS World 2019

6 February 2019

Tacton today announced that it will be demonstrating Tacton CoDesigner at SOLIDWORKS World 2019, being held February 10-13, 2019 at the Kay Bailey Hutchison Convention Center, Dallas, Texas.

The 21st annual SOLIDWORKS World brings together designers, engineers, managers, and partners to discuss ideas, trends, and technology shaping the future of product design. Show attendees will see how Tacton CoDesigner, a new addition to the design automation product portfolio, and SOLIDWORKS software simplifies custom product design. Now customers can conceptualize the product during each phase of the design process to gain a detailed understanding of it, all the way from initial design to production and delivery.

As a SOLIDWORKS Gold Partner, Tacton delivers a new level of collaboration with cloud-based Tacton CoDesigner driving enormous cost and time savings by empowering product, engineering and sales teams to identify product design concerns and effectively manage approvals throughout the development process.

"In the water treatment industry, lead-time is often more important than price," according to Brian Bartholomew, Environment Senior Project Engineer at ClearStream Environmental, a leading provider of process equipment for the water and wastewater treatment industries. "With the SOLIDWORKS and Tacton Design Automation, once our proposal is accepted, design goes through engineering in just a few days, then out to fabrication. This type of automation has been a key factor in our business growth."

"The power of Tacton CoDesigner and SOLIDWORKS gives engineers the tools and productivity to streamline product development and reduce errors," said Nick Iwaskow, Director, Alliances & Partnerships, SOLIDWORKS, Dassault Systèmes. "At SOLIDWORKS World, attendees can receive a unique glimpse into how they can use Tacton CoDesigner for engineer-to-order automation inside SOLIDWORKS. With a high level of interactivity, ease of use and maintenance, engineers can easily configure designs of complex products and automatically generate complete 2D drawings, 3D models and quote documents."

"Using Tacton CoDesigner and SOLIDWORKS together in a cloud environment is the next step in the evolution of product development for manufacturing," said Tacton CEO Frederic Laziou. "By giving engineering and sales teams early and more powerful insights into every stage of product development, we are giving them a real competitive advantage in the race to get getting the right products to market, while reducing the risks of design flaws and costly engineering order errors by 30 percent."

To see the power of Tacton and SOLIDWORKS working together, please visit Tacton at booth number 828 or hear from end users and Tacton experts during these sessions:

Take Your Design Automation Project to the Next Level

Sunday, Feb. 10, 6:30 p.m.- 6:45 p.m.

Pawel Dabrowski, VP Channel Sales, will showcase how Tacton Design Automation is the preferred design efficiency tool for manufacturing. With web-based Tacton CoDesigner, Tacton brings collaborative configuration and design to sales and design engineers so they can focus on customer needs and innovation at the same time.

Improve Design Time - Test Drive Tacton Design Automation

Wednesday, Feb. 13, 8:30 a.m. - 10:00 a.m.

Jason Jensen, Design Engineer, ClearStream Environmental and Chris Price, Design Automation

Developer, ClearStream will explore the flexibility of Tacton Design Automation. Attendees will learn how to automate SOLIDWORKS parts, assemblies and drawings, and discover the ease and benefits Tacton offers. See layout mode in action for use in teams that provides modular development, and learn how to improve design times without using the API.

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Financial News

Autodesk Extends Invitation to Join Financial Results Conference Call

1 February 2019

Autodesk, Inc. announced that it will broadcast its fourth quarter fiscal 2019 financial results conference call live via its website Thursday, February 28, 2019 at 2:00 p.m. Pacific Time. Autodesk will host a live webcast call at www.autodesk.com/investors. An audio replay webcast and podcast will also be available after 5:00 p.m. Pacific Time on Autodesk's website at www.autodesk.com/investors. For more information, please call Autodesk Investor Relations at 415-507-6373.

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Cognizant Reports Fourth Quarter and Full Year 2018 Results

6 February 2019

Cognizant Technology Solutions Corporation announced its fourth quarter and full year 2018 financial results.

- Quarterly revenue rose to \$4.13 billion, up 7.9% (8.8% in constant currency²) from the year-ago quarter.
- Quarterly GAAP diluted EPS was \$1.12, compared to \$(0.03) in the year-ago quarter.
- Quarterly non-GAAP diluted EPS² was \$1.13, compared to \$1.03 in the year-ago quarter.
- Quarterly Adjusted Diluted EPS² was \$0.98, compared to \$0.96 in the year-ago quarter.

Revenue for the fourth quarter of 2018 rose to \$4.13 billion, up 7.9% from \$3.83 billion in the fourth quarter of 2017. GAAP operating margin was 16.8%, non-GAAP operating margin² was 19.5%, and Adjusted Operating Margin² was 17.0% for the fourth quarter of 2018. Net income was \$648 million, or \$1.12 per diluted share, compared to a net loss of \$(18) million, or \$(0.03) per diluted share, in the fourth quarter of 2017. Fourth quarter 2017 GAAP net loss included the one-time incremental income tax expense of \$617 million related to the implementation of the U.S. Tax Cuts and Jobs Act. Non-GAAP diluted EPS was \$1.13, compared to \$1.03 in the fourth quarter of 2017. Adjusted Diluted EPS was \$0.98, compared to \$0.96 in the fourth quarter of 2017.

¹ On January 1, 2018, we adopted ASC Topic 606, "Revenue from Contracts with Customers," or the New Revenue Standard, using the modified retrospective method. Results for reporting periods

CIMdata PLM Industry Summary

beginning on or after January 1, 2018 are presented under the New Revenue Standard, while prior period amounts are not adjusted and continue to be reported in accordance with our historic accounting policies. For the three months ended December 31, 2018, adoption of the New Revenue Standard had a positive impact on revenue of \$11 million, income from operations of \$30 million and diluted earnings per share of \$0.04 per share.

2 Non-GAAP diluted EPS and non-GAAP operating margin exclude stock-based compensation expense, acquisition-related charges and unusual items, and non-GAAP diluted EPS additionally excludes net non-operating foreign currency exchange gains or losses and the tax effect of the applicable adjustments. Adjusted Diluted EPS and Adjusted Operating Margin exclude only unusual items, and Adjusted Diluted EPS additionally excludes net non-operating foreign currency exchange gains or losses and the tax impact of all the applicable adjustments. Constant currency revenue growth is defined as revenues for a given period restated at the comparative period's foreign currency exchange rates measured against the comparative period's reported revenues. Reconciliations of non-GAAP diluted EPS, Adjusted Diluted EPS, non-GAAP operating margin and Adjusted Operating Margin to the corresponding GAAP measures are included at the end of this release.

"Cognizant executed well in 2018, diversifying our revenue base and client roster, and investing to build distinctive leadership in six advanced digital capabilities," said Francisco D'Souza, Vice Chairman and Chief Executive Officer. "Forming the core of our digital strategy, these capabilities are instrumental in helping clients digitize and transform their entire enterprises, which we call being digital at scale. Digital continues to permeate and power every industry, creating a substantial market opportunity for us across the industries, geographies, and buyer groups we serve. With a disciplined plan for executing our digital strategy, we've set Cognizant up for the next stage of sustainable strong growth and value creation."

Highlights - Full Year 2018

- Revenue increased to \$16.13 billion, up 8.9% (8.5% in constant currency) from 2017.
- GAAP diluted EPS was \$3.60, compared to \$2.53 in 2017.
- Non-GAAP diluted EPS was \$4.57, compared to \$3.77 in 2017.
- Adjusted Diluted EPS was \$4.02, compared to \$3.42 in 2017.

Revenue for 2018 increased to \$16.13 billion, up 8.9% from \$14.81 billion for 2017. GAAP net income for 2018 was \$2.10 billion, or \$3.60 per diluted share, compared to \$1.50 billion, or \$2.53 per diluted share, for 2017. Non-GAAP diluted EPS was \$4.57 in 2018, compared to \$3.77 in 2017. Adjusted Diluted EPS was \$4.02 in 2018, compared to \$3.42 in 2017. GAAP operating margin was 17.4%, non-GAAP operating margin was 20.7% and Adjusted Operating Margin was 18.1% for 2018.

First Quarter & Full Year 2019 Outlook

The Company is providing the following guidance:

- First quarter 2019 year-over-year revenue growth of 7.5-8.5% in constant currency.⁴
- Full year 2019 year-over-year revenue growth of 7.0-9.0% in constant currency.⁴
- Full year 2019 Adjusted Diluted EPS⁵ expected to be at least \$4.40.

"Our full year 2018 results reflect the on-going execution of our long-term strategy, which is expected to drive sustainable revenue and earnings growth," said Karen McLoughlin, Chief Financial Officer. "In 2018, we continued to focus on operational excellence to drive margin enhancement, while continuing to

CIMdata PLM Industry Summary

invest in the business. In addition, we introduced a more balanced capital return program to start in 2019."

3 For the year ended December 31, 2018, adoption of the New Revenue Standard had a positive impact on revenue of \$96 million, income from operations of \$134 million and diluted earnings per share of \$0.19 per share.

4 Based on current foreign exchange rates, we expect first quarter and full year 2019 revenue growth to be negatively impacted by 170 basis points and 70 basis points, respectively.

5 A full reconciliation of Adjusted Diluted EPS guidance to GAAP diluted EPS guidance on a forward-looking basis cannot be provided without unreasonable efforts, as we are unable to provide reconciling information with respect to unusual items, net non-operating foreign currency exchange gains or losses, and the tax effects of these adjustments, all of which are adjustments to Adjusted Diluted EPS.

Executive Changes

The Company announced today that its Board of Directors has appointed Brian Humphries, currently the CEO of Vodafone Business, as its CEO and a member of the Board of Directors, in each case effective April 1, 2019. Following Humphries' appointment, Francisco D'Souza, who co-founded Cognizant and has served as CEO since 2007, will serve as full-time Executive Vice Chairman to facilitate the transition through June 30, 2019. Thereafter, he will remain on the Board as Vice Chairman. The Company also announced that Rajeev Mehta will step down as the Company's President, effective April 1, 2019. Additional information can be found <http://www.cognizant.com/investors/sec-filings>.

"Raj has provided Cognizant with his leadership, operational skills, and passion for clients for more than two decades in a variety of operating roles and has served as our president for the past two and a half years," said D'Souza. "We're grateful to Raj for his countless contributions to the growth and success of Cognizant. On behalf of the Board, I wish Raj well in his future endeavors."

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Dassault Systèmes reports strong 3DEXPERIENCE-driven growth with Fourth Quarter total revenue up 13% and software revenue up 11% at constant currency

6 February 2019

Dassault Systèmes announces IFRS unaudited financial results for the fourth quarter and year ended December 31, 2018. These results were reviewed by the Company's Board of Directors on February 5, 2019. The Company adopted IFRS 15 as of January 1, 2018. This press release includes 2018 fourth quarter and twelve-month financial results under IFRS 15 as well as under the prior IAS 18 standard and includes a summary explanation of the major differences for the Company. In addition, this press release also includes financial information on a non-IFRS basis (both IFRS 15 and IAS 18) with reconciliations included in the Appendix to this communication.

Fourth Quarter and Full Year 2018 Highlights and Financial Summary

CIMdata PLM Industry Summary

(Unaudited, with references to IAS 18 data, all revenue growth at constant currency (exfx))

2018 4th QUARTER and FY RESULTS

- On an organic basis, Q4 total revenue up 10%, software revenue up 8%, license revenue up 11% and services revenue up 26% (IAS 18 exfx)
- Non-IFRS EPS above objectives at €1.10 (+24%) for Q4 and €3.11 (+20%) for FY
- Cash flow from operations up 21% to €899 million in 2018
- 3DEXPERIENCE software revenue up 24% in FY
- Asia and Europe lead Q4 and FY, with notable strength in Japan, China and Western Europe
- Airbus selects the 3DEXPERIENCE platform for its Global Enterprise Digital Transformation Program
- Acquisition of IQMS, a California based manufacturing ERP Software Company, for \$425 million to extend the 3DEXPERIENCE platform to small and mid-sized manufacturing companies seeking to digitally transform their business operations

2019 FINANCIAL OBJECTIVES

- Non-IFRS Revenue Objective: €3.810 to 3.840 billion, about +10-11% in constant currencies
- Non-IFRS Operating Margin Objective: about 32 to 32.5%
- Non-IFRS EPS Objectives: €3.35-3.40, +9-11% in constant currency

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DXC Technology to Report Third Quarter 2019 Results on Thursday, February 7, 2019

5 February 2019

DXC Technology (DXC) announced that it will release financial results for the third quarter of fiscal 2019 on Thursday, February 7, 2019, at approximately 4:15 p.m. Eastern Standard Time (EST).

DXC Technology senior management will host a conference call and webcast on the same day at 5 p.m. EST. The dial-in number for domestic callers is (888) 254-3590. Callers who reside outside of the United States should dial +1 (323) 994-2093. The passcode for all participants is 6249774. The webcast audio and any presentation slides will be available on DXC Technology's Investor Relations website.

A replay of the conference call will be available from approximately two hours after the conclusion of the call until February 14, 2019. The replay passcode is also 6249774.

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Implementation Investments

Airbus and Dassault Systèmes embark on strategic partnership to create the European aerospace industry of tomorrow

6 February 2019

Airbus and Dassault Systèmes have signed a five-year Memorandum of Agreement (MOA) to cooperate on the implementation of collaborative 3D design, engineering, manufacturing, simulation and intelligence applications. This will enable Airbus to take a major step forward in its digital transformation and lay the foundation for a new European industrial ecosystem in aviation.

Under the MOA, Airbus will deploy Dassault Systèmes' 3DEXPERIENCE platform, which delivers digital continuity, from design to operations, in a single data model for a unified user experience, making digital design, manufacturing and services (DDMS) a company-wide reality for all Airbus divisions and product lines.

DDMS paves the way for breakthroughs in new product design, operational performance, support and maintenance, customer satisfaction and new business models, as it represents a move from sequential to parallel development processes. Instead of first focusing on product performance, Airbus will be able to co-design and develop the next generation of aircraft with the manufacturing facilities that will produce them, reducing costs and time to market.

“We are not just talking about digitalisation or a 3D experience, we are rethinking the way aircraft are designed and operated, streamlining and speeding up our processes with customer satisfaction in mind,” said Guillaume Faury, President Airbus Commercial Aircraft. “DDMS is a catalyst for change and with it we are building a new model for the European aerospace industry with state of the art technology. Our target is a robust production setup that offers a reduction in product development lead time.”

“Nothing exemplifies the intersection of technology, science and art more than aviation. When we reflect on how the industry has evolved to where it is today, it’s a blend of technical prowess, digital precision and inspiration,” said Bernard Charlès, Vice Chairman and CEO, Dassault Systèmes. “The Aerospace industry has a proven track record of fast transformation, faster than in most industries. It delivers high quality innovation and new services for operations in highly complex and regulated environments. The 3DEXPERIENCE platform will accelerate the digital transformation of Airbus. Airbus can capture insights and expertise from across its ecosystem to deliver new experiences that only the digital world makes possible.”

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Baby Gear Manufacturer phil&teds Chooses Onshape for Consumer Product Design

7 February 2019

Baby gear manufacturer phil&teds has chosen Onshape as its primary CAD and data management platform. Onshape is an all-in-one cloud design platform that combines CAD, release management, workflow, and real-time collaboration tools to speed up product development.

Based in New Zealand, the company’s innovative baby buggies, travel cribs, bassinets, high chairs, car seats, and other gear are sold in more than 40 countries.

CIMdata PLM Industry Summary

“Even though children aren’t using our products for that long, they do get a hammering,” says Phil Brace, lead designer for phil&teds. “Quality products come from quality designs and Onshape gives me an updated overarching view of everything we have in development. Every morning, I always know the status of our projects and who is working on what.”

“As a designer, what excites me about cloud-based CAD are the opportunities to collaborate with my colleagues and factory partners in real time. Onshape is a huge time-saver. Whether it is making our company twice as efficient or 10 times as efficient, it definitely helps us achieve our goals faster and at a higher level,” he adds.

With Onshape’s real-time data management, whenever an engineer makes a change or edit to their 3D CAD model, everyone on the design team instantly sees it. A comprehensive Edit History also records who made what changes and when, allowing the team to return to any prior state of the design at any time.

“Around the world, parents choose phil&teds baby strollers so they won’t be limited to the sidewalk and can navigate through rough-and-tumble terrain,” says Onshape CEO Jon Hirschtick. “We’re delighted that Onshape helps their engineering team handle tough design challenges so they can be more agile and nimble, too.”

“I’ve used a lot of CAD tools over the years – Pro E, Catia, SOLIDWORKS, you name it,” adds Brace. “The number one thing I love about Onshape is that I no longer have to go hunting for files. I look in one place to find everything I need. Whether it’s a co-worker’s design, an update from the factory or my own work, it’s all there.”

“When we were using a PDM system, the process of checking in and checking out files was a nightmare,” he says. “The factory guys would make some tweaks to a design, but sometimes forgot to update the PDM. With Onshape, we’re always confident we are looking at the latest version.”

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Coalision Transforms Digital Infrastructure with Centric PLM

6 February 2019

Coalision, the Canadian company behind activewear brand Lolë and outdoor clothing brand Paradox, has selected Centric Software’s Product Lifecycle Management (PLM) solution.

As David Turcotte, Retail System Administrator at Coalision explains, competition was the driving force behind the company’s decision to look for a PLM solution.

“Our main challenge involves Lolë, our major brand,” he says. “We needed to upgrade our design processes to be even more effective. Two years ago, we began a complete examination of our IT infrastructure. It became clear that to gain a share in the digital world, we needed PLM. We had been working with a process in our ERP system but the way we were creating wasn’t seamless or collaborative enough. We wanted a PLM solution that could help us work better internally, reduce time to market and analyze our sourcing and materials more effectively.”

Coalision considered several PLM solutions from major vendors but ultimately made their choice based on Centric’s fashion expertise and flexibility.

CIMdata PLM Industry Summary

“We found it really interesting that Centric PLM is a web-based application” . “Our team liked the software’s flexible approach and user-friendly interface. Centric PLM is specifically created for apparel and footwear, whereas other solutions originated in industries such as automotive or manufacturing. The Centric team has deep apparel and footwear knowledge and they were extremely understanding of our business needs throughout the decision-making process.”

“Centric is going to transform the way we think about products,” says David Turcotte. “As Retail System Administrator at Coalision it is my mission to make sure that the company uses the latest technology to meet business needs and to always try to give our employees the best possible technology and tools. Centric PLM will re-centralize our product data and completely overhaul the way our design and product teams work. We expect to see better collaboration and faster time to market”.

“Everything will be more visual,” he concludes. “We’ll be able to get a holistic view of the products in development each season. Because we’ll have a centralized single version of truth, we will reduce errors. We have a really good relationship with the Centric team and we’re looking forward to getting started.”

“We would like to welcome Coalision as our latest partner in Canada,” says Chris Groves, President and CEO of Centric Software. “Like Centric, Coalision is a company focused on innovation, performance and progressive product development. We are delighted to support the evolution of their digital infrastructure with Centric PLM.”

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DeSL Revolutionizes the Way Bortex Approaches Development

6 February 2019

DeSL is pleased to announce its partnership with Bortex Global Ltd. Founded in 1964, by a Maltese entrepreneur, Sunny Borg, Bortex is known as a high-quality manufacturer of men’s tailored clothing. Bortex has expanded into a vast number of sectors in the fashion industry including manufacturing, private label production, and retail.

Bortex’s recognized its need for a single software provider to offer a solution from design to production to sales. Leadership acknowledged the growth it could continue to obtain with DeSL’s full suite of products including, PLM, CRM, PO Management, SRM, Production Control, and WMS. “It is with great pleasure that Bortex Clothing Industry Limited have finalized terms with DeSL for what promises to be a pioneering end-to-end software project,” stated Sam Borg, Chief Operating Officer at Bortex.

After an exhausting search of potential vendors and a grueling selection process, Sam Borg proclaims, “DeSL not only emerged as the preferred PLM partner for Bortex, but excelled in aligning themselves with our vision for an integrated solution which would cover a clothing business in manufacturing, retail, hire, wholesale, made to measure, and corporate wear.”

DeSL is confident its suite of products will bring forth future growth for Bortex as it manages all aspects of its supply chain. Sam Borg said it best for Bortex and DeSL, “we can’t wait to get the project underway!”

DeSL is revolutionizing the way Bortex approaches the design and development processes.

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French Ready-to-Wear Leader Camaïeu Selects Centric Software

5 February 2019

Camaïeu, leading French women's ready-to-wear brand, has selected Centric Software's Product Lifecycle Management (PLM) solution.

Founded in 1984, Camaïeu is a French women's ready-to-wear brand that produces exclusive collections entirely designed by its studio in Roubaix. The company, whose goal is to offer an excellent price to quality and trend value, offers full range of fun, playful, easy-to-wear styles for all occasions. Today, Camaïeu is present in more than 22 countries with over 900 stores in Europe, Africa and the Middle East serving 37 million customers worldwide.

Camaïeu wanted to equip themselves with a PLM solution to streamline operational processes and ensure a collaborative workflow across the entire company.

"We wanted a PLM solution that would improve communication between departments and align our internal processes," explains Mathilde Ichac, Supply Manager at Camaïeu. "Our goal is to reduce the time spent organizing information in order to gain visibility on deadlines and activities throughout the organization."

"Standardization and collaboration are a major issue in our field as we have teams in France, Morocco, Vietnam, Bangladesh and China. It is therefore essential to set up a common platform that everyone can use to work together," she continues.

Camaïeu met several PLM vendors before deciding on Centric Software's flagship Centric 8 PLM solution.

"We met different PLM vendors but it was Centric that proved to be outstanding," says Ichac. "In addition to being the PLM market leader in the fashion and apparel world, Centric offers an extremely ergonomic and intuitive PLM solution that is flexible and fast to implement, making it easy for users to adopt."

"With the help of the Centric team, we will benefit from industry best practices for our ready-to-wear, accessories and lingerie lines," Ichac continues. "We look forward to having a single, reliable view of each product, digitizing our manual processes and driving our business even more effectively. Centric is listening to its customers and has a scalable solution that will adapt to the development of our product offering."

"We are very pleased that Camaïeu has chosen to implement Centric Software's PLM solution," says Chris Groves, President and CEO of Centric Software. "We are proud to embark on this new project with the French leader in women's ready-to-wear and we look forward to supporting the brand's digital transformation now and in the future."

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Infor and ICCG commit to take India Fashion and F&B Industries to the Cloud

8 February 2019

CIMdata PLM Industry Summary

Infor today announced that **Independent Computer Consulting Group (ICCG)** has been selected as a preferred partner to drive digital transformation for the Fashion, and the Food & Beverage industries in India. The alliance will strengthen the delivery of Infor solutions such as Infor Cloud Suite Fashion, Cloud Suite Food & Beverage (Infor M3) including Infor's edge applications like Infor Fashion PLM and Infor Optiva PLM to accelerate the adoption of robust, purpose-built and industry-specific suite of offerings designed to meet the evolving demands of businesses.

“To stay ahead of the digital curve, it is imperative for businesses to be agile and at the same time ensure operational excellence and positive customer experiences. Infor is known for its capabilities in automating critical business processes for diverse industry spectrums to drive business growth,” said Shiv Kaushik, CEO, ICCG. “Infor's business solutions are designed beautifully, keeping in mind the last mile functionality, deep industry domain expertise and added Implementation Accelerators that help eliminate the need for costly customizations and quicker implementations, thus giving Infor's customers a return on their investments. With this collaboration, we aim to address the complexities of the Fashion, and Food & Beverage industries in India in a digital-native business environment.” he added.

With this partnership, Infor and ICCG will jointly invest in sales, marketing, and delivery management to drive digital transformation, in particular in the Indian Fashion, and Food & Beverage industries. In addition, this partnership continues to demonstrate Infor's commitment to building a network of partners with a diverse range of expertise and experience for Infor's focus industries and micro-verticals in India.

Vibhu Kapoor, Director of Channel Sales, India, Middle East & Africa (IMEA), Infor said, “Businesses in India across industries continue to bet big on the adoption of cutting-edge technologies for accelerated growth, and channel partners play a key role in reaching the breadth and depth of the market by offering strategic industry-specific capabilities. ICCG's in-depth industry knowledge and innovative technology solutions will benefit customers by extending support for product deployment and consultancy, and when coupled with Infor's continued drive to deliver industry-specific solutions delivered in the cloud, will combine to meet the exacting needs of the Fashion and Food & Beverage industries in India.”

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Naval Energies Drives its Leadership in Marine Renewable Energies with Dassault Systèmes

7 February 2019

Dassault Systèmes announced that Naval Energies, a leader in marine renewables, is using the 3DEXPERIENCE platform to develop new offshore floating wind turbines and Ocean Thermal Energy Conversion (OTEC) turnkey solutions, and drive its leadership in marine renewable energies.

“The sea represents a source of renewable energy that can help to satisfy the needs of the world's growing population while ensuring a carbon-free footprint,” said Laurent Schneider Maunoury, CEO, Naval Energies. “As we work toward harnessing these possibilities, Dassault Systèmes' 3DEXPERIENCE platform was a strategic choice for accelerating the development of our technological solutions. Thanks to the cloud, we've quickly started to deploy the platform, and can scale its use from the design process to manufacturing and operations when needed.”

Naval Energies will rely on the “Designed for Sea” industry solution experience, based on the 3DEXPERIENCE platform, for program management, engineering and analysis of semi-submersible floaters and OTEC solutions, anchoring systems, underwater cables and connection solutions for

CIMdata PLM Industry Summary

offshore wind farm projects. Naval Energies can securely collaborate with its network of partners, reuse and share existing know-how, and reduce program development cycles and costs.

Programs include the Groix and Belle-Ile floating wind farm, a pilot project to install four 6-megawatt wind turbines off France's Atlantic coast that will produce electricity for 20,000 households. The project aims to optimize floating wind farm technology and infrastructure before full-scale deployments and, ultimately, contribute to energy transition in France. Naval Energies is the prime contractor for semi-submersible floating systems.

Floating wind turbines offer opportunities to harness the energy of offshore winds in deep maritime areas that are not visible from a coastline, through the use of a floating structure fixed to the seabed by an anchoring system that controls its movements. OTEC is a process that can produce electricity by using the temperature difference between deep cold ocean water and warm tropical surface waters. OTEC plants pump large quantities of deep cold seawater and surface seawater to run a power cycle and produce electricity.

Naval Energies' technological solutions for offshore floating wind turbines and OTEC will play a role in the definition of marine renewable energy industry standards that could allow for a more affordable energy alternative in the future.

"The marine marketplace is shifting due to a heightened focus on alternative energy sources. Innovators like Naval Energies are entering new segments with new business models," said Alain Houard, Vice President, Marine & Offshore Industry, Dassault Systèmes. "The 3DEXPERIENCE platform enables them to better address the challenges of this market transformation as well as leverage opportunities originating from the sea with new ways of working."

France, which has the world's second largest maritime surface measuring 11,000 km², seeks to fulfill 32 percent of the country's energy consumption with renewable energies by 2030.

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NLign Analytics Awarded Air Force Contract to Provide Structural Condition Maintenance Tool

4 February 2019

NLign Analytics has been selected by the US Navy to support a structural condition monitoring program on P-8A aircraft in service throughout the US Navy and the Royal Australian Air Force. The program will utilize the NLign Analytics Platform to collect and record airframe defects, inspections, repairs, and modifications to P-8A aircraft structure in order to ensure structural integrity and maximize availability.

Manufactured by Boeing, the versatile P-8A is designed for a broad range of operations including long-range warfare, surveillance and reconnaissance missions. It is capable of wide-area maritime and littoral operations and effective at humanitarian and search and rescue missions.

NLign Analytics CEO, Tom Sharp comments: "The proper recording of structural repairs, modifications, and inspections is pivotal when assessing the condition of any aircraft fleet. Adopting a digital data management solution will deliver measurable improvements to P-8A fleet maintenance data management and aircraft availability. We are naturally pleased to support the US Air Force, US Navy and Royal Australian Air Force on such an important program."

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Product News

C3D Toolkit Powers 3D Modeling in Altium Designer 19 and Altium NEXUS

7 February 2019

Altium LLC has launched Altium Designer 19 with brand new 3D modeling features based on C3D Toolkit components from C3D Labs. As one of the most widely used electronic design automation (EDA) systems, Altium Designer 19 benefits from fast, accurate geometric modeling powered by the C3D Modeler geometric kernel, the C3D Solver constraint solver, and the C3D Converter data exchange module.

Altium was the first to bring 3D modeling to PCB design, and now leads the way in modern electronics design. In its solutions, it combines traditionally separate approaches to electronic computer-aided design (ECAD) and mechanical (MCAD) to create a new way of doing product modeling.

C3D Toolkit delivers MCAD editing functions to the Multi-Board Design tools in Altium Designer 19. The new functions include support for rigid-flex PCB designs, ability to mate objects, and exporting models to STEP and Parasolid formats.

- C3D Modeler handles rigid-flex PCB designs through its sheet metal modeling module. The multi-board assembly editor displays the PCB in its final, folded state, as defined in the PCB editor.
- C3D Solver uses its algorithms to mate objects based on chosen surface locations, manipulation of mates as a single object, and separating mates by a specific distance in the X, Y, or Z directions.
- C3D Converter is responsible for data conversion to STEP and Parasolid X_T formats.

The three components from C3D Labs are also being used in developing Altium NEXUS, the company's new solution for agile enterprise PCB design.

“Altium Designer 19 has introduced new innovative tools for designing especially sophisticated projects,” said Sergey Kostinsky, Chief Technology Officer at Altium. “With the powerful new 3D engine from C3D Labs, our flagship product gains new 3D capabilities that bring together electronic and mechanical engineering. We’re making designing easier, faster, and more accurate from concept to production.”

“For us, Altium’s choice of C3D Toolkit for Altium Designer and Altium NEXUS is evidence of the trust this leading EDA vendor places in our technology,” said Oleg Zykov, CEO of C3D Labs. “For our part, we pay close attention to requests coming from Altium’s developers, and then implement them quickly.”

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DATADVANCE Releases pSeven 6.14.4

4 February 2019

CIMdata PLM Industry Summary

DATADVANCE development team announces the release of the pSeven 6.14.4 update. The hotfix resolves a few immediate issues reported by our customers and is aimed to provide better support for running STAR-CCM+ simulations.

In 6.14.4, the STAR-CCM+ block was updated to integrate more complex simulation projects into a workflow. Namely, we improved handling of inlet boundary conditions. Previously, the block didn't change the values of velocity magnitude and total pressure before running a simulation. Now if such boundary conditions are used in the workflow, the block handles them correctly. We also investigated and resolved the issues resulting in the block's inability to build the project tree for simulations containing boundary conditions and user field functions of unsupported types.

The latest update also contains a couple more of stability fixes. Namely, we addressed a bug in the Design space exploration block due to which the Adaptive design technique and optimization techniques could crash the block in certain configurations on Windows because a memory access violation error occurred. We also fixed a few bugs in the ApproxBuilder block. For a complete list of changes, please refer to the 6.14.4 changelog.

pSeven 6.14.4 is a recommended update for users who integrate STAR-CCM+ with pSeven. This update also contains all recent enhancements introduced since pSeven 6.14. If you are planning an upgrade from a non-recent version of pSeven, it is recommended to update directly to pSeven 6.14.4, skipping the previous versions.

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InfluxData and VMware Collaborate to Optimize Streaming Data Collected from IoT Devices

6 February 2019

InfluxData today announced its technology will integrate with VMware's Pulse IoT Center, an IoT infrastructure management solution. The new solution embeds two products from InfluxData — InfluxDB Enterprise and Kapacitor — optimizing the handling of time series data from connected IoT devices, sensors and infrastructure running at the edge and using VMware Pulse IoT.

InfluxDB Enterprise is a database optimized for time series data. And Kapacitor is the real-time stream processing component of the InfluxData platform – used to analyze large quantities of sensor data in real time.

VMware Pulse IoT Center is a secure, enterprise-grade IoT device management and monitoring solution. It allows customers to onboard, manage, monitor and secure IoT systems and connected devices, bridge the gap between information technology and operational technology organizations, and simplify IoT device management with Pulse IoT Center.

The integration of InfluxDB and Kapacitor with VMware Pulse IoT Center creates a solution that enhances the ability of companies to handle the massive amounts of data associated with industrial and enterprise IoT workloads.

“IoT is a new frontier for the enterprise, and the ability to operate at the edge is non-negotiable,” said Mimi Spier, VP of Internet of Things Business at VMware. “Simply put, there must be edge computing to process data closer to where IoT devices reside, and real-time collecting, visualizing and processing of device metrics and time-series data to deliver insight and competitive advantage. We're thrilled to

CIMdata PLM Industry Summary

collaborate with InfluxData in bringing edge computing capabilities to our mutual customers.”

“With highly capable platforms such as VMware Pulse IoT Center, quickly scaling out an IoT deployment is now easier than ever,” said Brian Mullen, VP of Business Development at InfluxData. “We are thrilled to be working with VMware to bring our open source platform, specifically InfluxDB Enterprise and Kapacitor, to industrial and enterprise IoT developers, enhancing their ability to handle time series data at the IoT edge.”

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International TechneGroup (ITI) releases DEXcenter Version 11

4 February 2019

International TechneGroup (ITI) is pleased to announce the availability of DEXcenter 11. DEXcenter supports the adoption of Model Based Enterprise (MBE) by offering a vendor-neutral, engineering supply chain platform for automating CAD/CAM/CAE/PLM interoperability workflows and the secure transfer of product data.

Some of the new capabilities available in DEXcenter 11 include:

Web GUI

A major refresh has been made to the usability, performance, look, and feel of DEXcenter 11.

Security

Two-Stage authentication has been added, plus architecture/component upgrades for additional security, reliability and performance.

Process Automation

Enhancements have been made to increase the number of CAD model pre-processing tasks that can be automated using DEXcenter.

Reporting

The usability of DEXcenter’s reporting capability has been greatly improved, as well as the user’s experience with error reporting, such as “failed session” feedback.

Technical Data Packaging (TDP)

DEXcenter excels at the task of creating TDPs, a vital function for MBE. DEXcenter V11 TDP functionality now includes the generation of PDF containers, cover sheet templates populated by data from models, the ability to manage TDP file preparation and use (such as saving session files for use in a TDP later) and the ability to select a TDP from a repository.

Interface upgrades

DEXcenter supports all major and neutral CAD and visualization formats. Version 11 adds support for CATIA V5-6R2018, NX 12, and Creo 4 with AP242 semantic PMI support. It also supports ITI’s CADIQ V11, and automatically configures CADIQ during the DEXcenter installation, an efficiency gain for ITI customers with both products.

For more information, visit the DEXcenter product page: www.iti-global.com/dexcenter

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NEC Revamps Obligato Platform to Support Enterprises in Transforming Business Models

5 February 2019

NEC Corporation has revamped the platform of and strengthened the global development environment for its Obligato series of Product Lifecycle Management (PLM) software products used to consolidate management of technical information, such as drawing, specifications and parts lists (BOM), in order to support enterprises in transforming their business models. Sales of this latest version of NEC's Obligato PLM software are scheduled to begin today.

Thanks to the advantages of business functions supporting monozukuri--a manufacturing style unique to Japan--based on NEC's own implementation of the series and the BOM/BOP solutions promoting the linkage of design and production information which is essential in monozukuri, the Obligato series of PLM software has been introduced by more than 900 companies and currently enjoys the top share in Japan.

This revamping of the Obligato platform has significantly enhanced ease of use, creation, and connection in global environments, as well as improved development efficiency by approximately 30% through the realization of user interface improvement, linkage with social media platforms, and the expansion of extension tools. As a result, Obligato will be able to flexibly and promptly support enterprises in transforming their business models as an engineering platform for assisting companies and sales partners in expanding global business and creating ecosystems.

Moreover, to bolster global sales and support systems, NEC plans to launch a sales partner program in April of this year as well as to develop a support system enabling round-the-clock response to inquiries in English going forward.

NEC remains focused on the Social Solutions business and will continue leveraging its advanced ICT technologies to provide and promote the sale of solutions contributing to the transformation of global manufacturing infrastructure and processes.

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Newly Launched ANSYS Cloud Accelerates Engineering Productivity and Business Agility

5 February 2019

Businesses of all sizes can accelerate innovation and reduce time to market with the power of on-demand simulation and high-performance computing (HPC) thanks to ANSYS Cloud. Released today, ANSYS Cloud enables engineers to obtain high-fidelity simulation results and evaluate more design variations in less time and with a smaller information technology footprint — driving top-line growth through superior product designs and improved business agility.

Through Pervasive Engineering Simulation™, ANSYS empowers organizations to deliver more efficient, faster and smarter products to the market in less time. With ANSYS Cloud, engineering teams can now also access virtually unlimited cloud compute resources to increase their simulation throughput

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to solve larger, more complex models instantly and effortlessly. ANSYS Cloud eliminates the need to deploy additional applications, maintain HPC resources or create new business relationships with third party cloud vendors.

ANSYS Cloud provides easy and instant access to on-demand HPC in the cloud directly from within ANSYS® Mechanical™ and ANSYS® Fluent®. Requiring no additional configuration, engineers can access ANSYS Cloud directly from their desktops.

"Altaeros depends on the fast turnaround of dozens of operating points on high-fidelity ANSYS Fluent models to support flight dynamics and mechanical design needs," said Jon Everitt, principal aerodynamicist, Altaeros. "Cloud computing accelerates time to results and the built-in interface to Microsoft Azure within the ANSYS tools presents a compelling case for its adoption."

ANSYS Cloud is a robust and secure environment for running simulations in the cloud that combines Azure's productive cloud computing services with additional encryption methods for enterprise-grade security.

Small and medium-sized businesses now have access to the same simulation throughput previously limited to large engineering enterprises. Larger organizations, with existing investments in on-premise HPC, can also tap into ANSYS Cloud to satisfy peak demand when their on-premise systems are at capacity.

"High-efficiency equipment is critical for improving plant performance in the oil and gas industry," said Luis Baikauskas, process engineer, Hytech Ingeniería. "ANSYS Cloud enables Hytech Ingeniería to calculate large and complicated geometries within hours, instead of days or weeks — resulting in significant time savings."

With access to virtually unlimited compute capacity, ANSYS Cloud delivers elasticity, speed and agility when users need it most. The solution also provides flexibility to select from Azure data centers across the globe that meet varying data privacy requirements. From startups to global corporations, companies can devote their resources to business differentiators instead of procurement or ongoing management of HPC resources.

"ANSYS Cloud puts the power of on-demand hardware and software delivered from the cloud in the hands of ANSYS customers to tackle their largest simulation models and provide unprecedented insights into product designs," said Navin Budhiraja, vice president and general manager, cloud and platform business unit at ANSYS. "ANSYS Cloud uniquely combines ANSYS software with Microsoft Azure services and HPC infrastructure to create completely seamless cloud access, while still providing the robust, secure and high-performance simulation technology our customers expect."

Navneet Joneja, Azure Compute, Partner Program Manager, Microsoft Corp. said, "Organizations around the world recognize Microsoft Azure as a trusted partner for scalable cloud infrastructure and services. We are pleased to see ANSYS bring our mutual customers faster time to results through easier access to on-demand HPC on Azure directly from within ANSYS applications."

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SEAL Systems Helps Customers Reduce Operating Costs with Document Distribution and SAP Maintenance Orders Management Solutions

8 February 2019

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Enterprise organizations that manage large projects and use SAP as an enterprise resource planning (ERP) tool need a secure, automated process to exchange information. Using a manual process is inefficient, and can result in errors and inaccuracies.

SEAL Systems addresses this need by offering its customers a robust cloud-based document distribution solution that is integrated with its Teamcenter integration Document Distribution Platform to enable regulated and traceable exchange of information and documents.

As explained by a SEAL Systems Manager, "Electronic files can be distributed by e-mail, zip files, FTP access, web portals or printed according to the customer's needs. The recipient's confirmation that the document package has been received is stored as proof and response in Teamcenter, which makes the file distribution process transparent, replicable and traceable throughout the process.

He added, "A correct version of the entire package in the right format is produced for each job using a built-in identification system. The system tracks any changes that are made and adds a watermark to authenticate the date and time of the revision."

SEAL Systems also offers an SAP maintenance orders management solution that makes printing and distributing maintenance orders a single-step process. As the manager explained further, "Many of our clients rely on maintenance orders that include detailed information such as pictures, specifications, drawings, prints, and lockout standards. With our solution, they can automatically compile the maintenance order and all associated documents and materials and print them in the correct order."

As a leading provider of document distribution platforms, SEAL Systems helps customers improve productivity and reduce operating expenses with its comprehensive output management, SAP, product lifecycle management (PLM), technical communications, and document conversion solutions.

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Vector Announces Integration With its Award-Winning VectorCAST Test Automation Platform and the IBM® Collaborative Lifecycle Management (CLM) Application

6 February 2019

With the release of the VectorCAST integration for IBM CLM, organizations can quickly and easily link requirements to VectorCAST test cases.

IBM's Collaborative Lifecycle Management (CLM) is a set of seamlessly-integrated application lifecycle management (ALM) tools that work together as one. Organizations use CLM to manage requirements, plan projects, track changes, and manage quality on a single platform.

Through a simple and intuitive interface, engineers can quickly and easily link requirements to VectorCAST test cases using VectorCAST's Requirements Gateway (RGW). With the integration to IBM CLM, developers can import software requirements from a CLM Requirements Management (RM) tool and associate them directly to test cases. The integration allows for creating Quality Management (QM) test cases inside of CLM matching those created in VectorCAST. The relationship between RM requirements and QM test cases is automatically maintained, allowing for complete traceability inside of CLM. Finally, with the VectorCAST adapter for CLM, it is possible to execute VectorCAST test cases from within CLM.

The VectorCAST for IBM CLM integration also eases regulatory compliance by reducing the amount of

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time and effort spent generating full traceability and status reports required to meet industry regulations such as DO-178 (Avionics), IEC 61508 (Functional Safety), IEC 62304 (Medical) and ISO 26262 (Automotive).

"Requirements traceability, data analysis, and reporting are critical components in the development of safety and mission critical applications, and organizations expect requirements management to be a seamless process within their development environment," said Jeffrey Fortin, VectorCAST Product Manager. "The IBM CLM integration was developed in response to the increased use of CLM by our existing VectorCAST customers and provides them with a powerful way to manage requirements with test data."

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