CIMdata

PLM Industry Summary

Sara Vos, Editor

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Contents

CIMdata News

CIMdata's Executive Consultant, Frank Popielas, to be featured in a Webinar on Digital Twins

31 May 2018

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces that Frank Popielas, a CIMdata Executive Consultant, will take part in a webinar entitled, "Digital Twins - Changing the way we Engineer, Validate, Market, and Operate Our Products." The webinar will show how digital twin solutions can help your company embrace digitalization and increase competitiveness.

Webinar attendees will learn the answers to some of the core questions related to digital twins and their practical value, including the following:

- What are the new challenges emerging in engineering and manufacturing?
- What are Digital Twins and why do they matter?
- How are Digital Twins already utilized in real-life business cases?

The webinar, which is sponsored by Mevea, will take place on Tuesday, 12 June at 01:00 EEST and will last one hour. To register or learn more, visit https://www.cimdata.com/en/events/cimdata-supported-events/event/396-webinar-digital-twins-changing-the-way-we-engineer-validate-market-and-operate-our-products.

About CIMdata

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

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

Click here to return to Contents

CIMdata's Executive Consultant, Ken Amann, to present at Siemens PLM Connection

30 May 2018

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces that its Executive Consultant, Ken Amann, will make a presentation at Siemens PLM Connection. The event will be held on 4-7 June in Phoenix, Arizona. Mr. Amann's presentation entitled, "The Digital Twin–An Industry View," will take place during a one-day long session on "Realizing the Digital Twin."

In his presentation, Mr. Amann will offer a description of industry challenges and why companies need to use Digital Twins. He will also provide CIMdata's definition of the Digital Twin and what is required to define and successfully use Digital Twins.

Mr. Amann has over 45 years of experience in the development of PLM, PDM, information technology (IT) architectures, computer-based engineering applications, document and information management systems, astrodynamics, and aerospace engineering. He has held senior positions in PLM marketing, development, and consulting; IT systems and architecture; and missile flight dynamics and controls systems. Mr. Amann served 10 years as CIMdata's Director of Research and is currently an Executive Consultant for the firm. As the Managing Director for PricewaterhouseCoopers' Technology Leadership Group, Mr. Amann conducted research into and evaluated emerging technologies as well as applications based on those technologies, and has defined and described how emerging technologies may be applied to enable leading-edge business solutions.

For more information about the presentation please visit: https://www.cimdata.com/en/events/plm-industry-events/event/395-plm-connection-2018.

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Click here to return to Contents

CIMdata's Practice Manager Tom Gill's Feature Article on FoodManufacturing.com:

Innovation, Monetization in Food & Beverage Brands

23 May 2018

The food and beverage (F&B) industry is dealing with accelerating changes, meaning more disruptions and opportunities, and more information to process. These pressures are pushing a shift in F&B's preferred approach to gathering and handling information — a shift away from transaction management, often in the form of Enterprise Resource Planning (ERP), and into innovation and end-to-end brand management via Product Lifecycle Management (PLM).

Food and beverage companies have tried countless ways to improve and monetize the innovation process. PLM solutions have a proven-in-use track record for delivering higher value in brand management and new product introduction.

The most dramatic impact is the new level of connectivity achievable — with greater transparency — throughout F&B's enormous amount of data. Many food and beverage companies are at risk of being buried in the data spawned by the exponential growth of new products. The number of retailers' SKUs

keeps climbing. A typical grocery store has 20,000 to 50,000 SKUs, though not all are F&B related. The biggest stores have far more and no two grocery stores stock the same things. As a peek into the data sprawl of F&B and for all retailers, just one eye opener: Coca-Cola has 500 brands and 3,500 products in its global portfolio.1

Meanwhile, driven by intense competition, F&B business models and strategies are undergoing fundamental change in regard to regulators, retailers and customers. For decades, F&B's approach to managing information was to focus on transactions, specifically the costs of everything sourced, produced and sold.

Development of new products usually had to fend for itself even as F&B data and information expand exponentially. Burdened with inadequate tools and poorly integrated, ad-hoc processes, product developers resort to work-arounds. Work-arounds solve immediate problems but they add complexity and process variation, and do little to resolve underlying shortcomings…

Read the rest of the feature here: https://www.foodmanufacturing.com/article/2018/05/innovation-monetization-food-beverage-brands

Click here to return to Contents

CIMdata's Vice President, Stan Przybylinski, to make a Presentation at Bank of America Merrill Lynch's EU Industry–The Digital Change Conference

29 May 2018

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces that its Vice President, Stan Przybylinski, will make a keynote presentation at Bank of America Merrill Lynch's EU Industry-The Digital Change Conference. The conference will take place on 31 May in Paris.

Mr. Przybylinski's presentation, "Product Lifecycle Management as a Platform to Digitalize Manufacturing," will provide an update on the Product Lifecycle Management (PLM) market, which includes simulation and analysis and a range of other solutions. He will also discuss how changes in

materials and manufacturing methods are making simulation and analysis even more important to design and manufacturing.

Mr. Przybylinski has over 30 years of experience in the development of business-enabling IT solutions for research, engineering, and manufacturing organizations worldwide. He has worked in R&D, marketing, and communications with both Fortune 100 companies and small organizations. Stan is responsible for CIMdata's research agenda, including the CIMdata PLM Market Analysis Report series. Mr. Przybylinski has been directly involved with selection, consulting, integration, and implementation of large-scale PLM solutions, and has worked on projects for both PLM solution suppliers and end-user organizations in the automotive, aerospace, consumer packaged goods, high-tech, and medical devices industries. He has spoken on PLM-related topics in Europe, North America, and Asia.

For more information about the presentation please contact CIMdata at info@CIMdata.com.

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Click here to return to Contents

Dassault Systemes SIMULIA Analyst Briefing 2018: Digitally Accelerating Additive Manufacturing (CIMdata Commentary)

29 May 2018

Key takeaways:

- *CIMdata believes Dassault Systèmes has made significant progress simulating the entire Additive Manufacturing (AM) process. Since their acquisition of ABAQUS, Inc., in 2005, the company has transformed the use of Finite Element Analysis (FEA) tools from evaluating discrete items to simulating the entire AM lifecycle.*

- *The briefing highlighted the significance of simulating everything from raw material to end-use production ready parts, not only prototypes.*

- *Dassault Systèmes is clearly focused on the Industrialization of AM.*

- *Companies are in transition from static-electronic to live-digitally connected processes, and companies need to eliminate silos and unite all functions into a seamless digital thread, bringing into focus not only technology challenges but organizational issues.*

Digitally Connected, Science Based

Mr. Scott Berkey, SIMULIA CEO, kicked off the Briefing day by describing the rich history of the SIMULIA brand, which originated in Rhode Island in 1978 as Hibbitt, Karlsson & Sorensen, Inc. (HKS). At that time the company focused on the development of its sole product ABAQUS, for nonlinear structural mechanics. In the year 2000, HKS changed its name to ABAQUS, Inc. and in 2005, Dassault Systèmes acquired the company and created the SIMULIA brand. Since that time Dassault Systèmes has continued to expand its simulation portfolio through organic R&D and a number of acquisitions.

Dassault Systèmes set the scene for the event by highlighting challenges (see Figure 1) inhibiting manufacture of end-use production ready parts via AM. The main takeaway was that companies are in transition from static-electronic to live-digitally connected processes, and companies need to eliminate silos and unite all functions into a seamless digital thread, bringing into focus not only technology challenges but organizational issues.

Figure 1—AM Design Through Manufacture Challenges
(Courtesy of Dassault Systèmes)

Mr. Berkey then handed the meeting over to Mr. Akshay Narasimhan Senior Technical Consultant, Additive Manufacturing & Materials, who, along with his colleagues, outlined a 5-step strategy (Figure 2) themed: Digitally Connected, Science Based:

1. 3DEXPERIENCE Marketplace

2. In-Silico Material Engineering

3. Function-Driven Generative Design

4. Process Definition & Production Planning

5. Global Production Systems

Figure 2—Digitally Connected 5-Step Process from Atoms to Parts
(Courtesy of Dassault Systèmes)

This 5-step strategy encompasses a holistic end-to-end approach that highlights the scope of Dassault Systèmes comprehensive Additive Manufacturing (AM) solution portfolio and encompasses material, geometry, process, and the environment in which the final part performs. Starting out, the 3DEXPERIENCE Marketplace is not only a procurement marketplace, but an entire ecosystem comprising AM manufacturing experts, AM machine builders, AM service providers (e.g. strategy, materials, manufacturing, labs, and academics).

The second step, Material Engineering, comes before design and simulates materials at microscale level in three stages as defined below. By simulating in three stages, engineers can choose the best material for the target application, such as medical or dental implants or an aerospace high temperature burner nozzle, by simulating the chosen material's behavior at each stage. This helps make better material selection decisions. The three stages are:

1. Material Microscale (before manufacture)

2. Material Evolution (during manufacture)

3. Material Performance (after manufacture)

The third step, Function-Driven Generative Design brings engineers a new concept of designing products starting with functions not features, and then combining these with space and performance constraints under various loading conditions, to create a range of conforming results. These results together with analytics allow the engineer to choose the best solution or do further trade-off iterations before making a final design decision. The engineer may then choose topology optimization and latt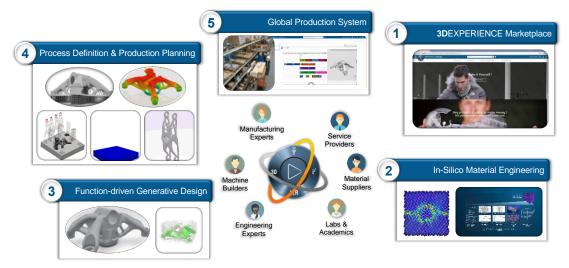icing to improve part performance. CAD engineers need not worry that their jobs are being obsoleted by generative design technology but rather they are now empowered to perform more design iterations in a shorter amount of time and make better design choices.

The Process Definition & Production Planning step provides the essential process planning to simulate the entire AM lifecycle end to end, right from within the 3DEXPERIENCE platform. This includes all process steps; materials; technologies such as powder bed, direct energy deposition, and polymer extrusion; and specific machine capabilities such as slicing, hatching, and build tray nesting. This means customers can simulate actual machine specific capabilities by accessing a specific virtual machine and

its controller codes. Build tray nesting assists engineers to simulate a collection of different parts in the build tray including thermal interactions, effects of cooling such as warpage, residual stresses, service life, and fatigue life including cracking. A Reverse Shape optimizer helps incorporate the effects of distortion back into the original design so that the final AM production part conforms to quality standards.

Finally, step five is the Global Production System. Global production is not a new concept, but AM brings the possibility to disrupt the traditional global production model by allowing on demand relationships between OEM and manufacturer to be created. Manufacturing can occur close to, or at, the location where the final product will go into service. This eliminates traditional costs of machine set-up, logistics, inventory, and potentially reduces time from part demand to in-service part commissioning. On demand global manufacturing is now practical with AM, but digital security is essential.

To further support the industrialization of AM and make end-use production ready parts, Dassault Systèmes showed SIMULIA process reuse which automates proven processes to help make the same or similar parts efficiently next time.

Connecting the Digital Thread

Since AM is driven digitally, comprising geometry, material recipe, and process, it is possible to create a full digital thread. With the 3DEXPERIENCE platform, Dassault Systèmes enables their customers to create a closed-loop digital thread, that includes essential tasks such as versioning, revisioning control, data vaulting, security, state changes, and change management, which provides needed corporate governance.

As shown in Figure 3, Dassault Systèmes has cleverly augmented corporate governance with peer-to-peer (P2P) collaboration, to give the flexibility of P2P in the context of governance and control. This maintains corporate governance yet supports how people prefer to work. Within a simple personal dashboard, symbols such as "6W Tags" helps inform Who, When, What, Where, Why, and How decisions were made. Combining the rigor of corporate governance with the flexibility of P2P social media-like tools, helps overcome some traditional barriers between departments within organizations.
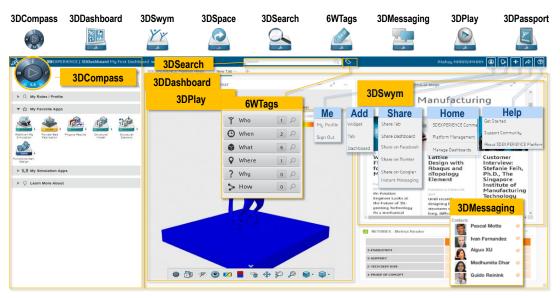

Figure 3—AM Digital Thread, Peer-to-Peer Collaborative, Governed, and Data Driven.
(Courtesy of Dassault Systèmes)

Concluding Remarks

Dassault Systèmes has demonstrated significant progress toward achieving an ideal world; from powder to working parts. Commencing from material microscale analysis to understand material behavior before, during, and after printing, all the way through to in-service part behavior, the 3DEXPERIENCE platform with its brand application and roles, provides a comprehensive robust platform to simulate any process, any material, for any machine.

Dassault Systèmes has carefully understood the needs of both the corporation and the individuals who make products. Corporations need governance, people need freedom to think, create, and explore. Usually these two paradigms don't fit together, but Dassault Systèmes combines the rigor of corporate governance with the flexibility of Peer to Peer collaboration, to give the best of both worlds.

The SIMULIA brand applications are more than a tool suite for discrete simulation tasks, when combined with the 3DEXPERIENCE platform and other Dassault Systèmes brand applications, they enable a transformation of how we go about designing and making everything we use. Industrialization of AM is here.

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Click here to return to Contents

Acquisitions

Hero Electronix buys Zenatix, forays into Internet of Things space

30 May 2017

Hero Electronix, the electronics and technology venture of the Hero Group, on Tuesday forayed into the Internet of Things (IoT) space with the acquisition of Gurugram-based Zenatix for an undisclosed amount.

Founded in 2013 by Indian Institutes of Technology (IIT)-Delhi engineers, Zenatix has built its own proprietary IoT stack, which includes hardware, cloud-based software and big-data analytics.

"If we examine the IoT space in India today, we only see the tip of the proverbial iceberg. As our team drives innovation, we are exploring acquisition and partnerships with start-ups like Zenatix, who are combining technology and data driven insights for sectoral disruption," Munjal said.

With the acquisition, Hero Electronix plans to work closely with Zenatix to introduce new solutions to

its existing clients and enter new segments. One of the aims of the company is to help address business challenges in retail, hospitality and logistics verticals through the deployment of IoT and emerging technologies, Hero Electronix CEO Nikhil Rajpal said.

"Also, Hero Electronix plans to widen the reach of Zenatix by foraying into global markets – countries such as south east Asia with similar challenges as the India market," he added.

Hero Electronix had earlier invested in Tessolve, Malaysia's Spectrum Integrated Technologies SdnBhd and the test lab business of Singapore's Lynxemi Pte Ltd.

In 2015, Hero Electronix acquired MyBox Technologies, one of India's largest multi-operator manufacturer of digital set-top boxes in the country.

Click here to return to Contents

Company News

Accenture Commits US$200 Million to Education, Training and Skills Initiatives Over Next Three Years to Equip People Around the World for Work in the Digital Age

23 May 2018

Supporting its vision to improve the way the world works and lives, Accenture is committing more than US$200 million over the next three years to help equip people around the world with job skills for the digital age.

"As a technology leader, we have an obligation to apply new scalable technology solutions to help solve complex societal challenges," said Pierre Nanterme, Accenture's chairman and CEO. "Our investments will continue to empower Accenture to produce socially minded partnerships and programs that will have a profound impact on the lives of millions of people throughout the world, now and for the future."

Accenture's commitment will help support Skills to Succeed, Tech4Good, Accenture Development Partnerships and related Accenture initiatives.

The company's Skills to Succeed initiative advances employment and entrepreneurship opportunities, leveraging digital innovation to help close employment gaps at scale. Together with a network of nonprofits and other ecosystem partners, Accenture has since 2010 equipped more than 2.2 million people with the skills to get a job or build a business, with a goal of equipping a total of more than 3 million people by 2020. Examples of Accenture's Skills to Succeed partnerships include:

- Helping Youth Business USA develop a platform that uses artificial intelligence and analytics to connect young entrepreneurs from under-represented communities with the resources, skills, training and mentoring needed to grow their business.

- Working with Rede Cidadã and Instituto Ser Mais in Brazil to provide low-income populations with the business and technical skills they need to build meaningful, lasting careers in technology, including the opportunity to be hired by Accenture.

Accenture's Tech4Good projects use advanced technologies to help solve critical challenges facing business and society. For instance, the company collaborated with The Grameen Foundation India, using technologies from AI to augmented reality, to help disadvantaged people improve their financial literacy to enhance their financial and social well-being. In collaboration with Club Egalité, Accenture Labs in Sophia Antipolis, France, is developing a virtual-reality game that helps teen students explore future-proof jobs and develop critical skills for the digital economy, with the goal of encouraging an interest in STEM careers.

Accenture Development Partnerships works across government, business and civil society, applying business and technology solutions to build capacity and strengthen programs for development organizations around the globe. For example, Accenture collaborated with the Spanish Ministry of Employment and a consortium of nonprofit partners and corporations in 2013 to create Emplea+, an online program that helps marginalized individuals develop technical, digital and soft skills needed for employment.

"The opportunity to improve lives requires collaboration across business, government and non-governmental organizations," Nanterme said. "As leaders weigh new technologies and applications, we all must ask ourselves: Does this benefit the next generation? If the answer is yes, it's the right thing to do."

Click here to return to Contents

Accenture Wins Three 2018 SAP® Pinnacle Awards Based on Outstanding Contributions and Dedication to Teamwork

29 May 2018

Accenture has received three 2018 SAP® Pinnacle Awards, bringing the total earned by Accenture to 38. Each year, SAP presents these awards to top partners that have excelled in developing and growing their partnership with SAP and helping customers run more efficiently. This year's accolades include:

- SAP S/4HANA® Partner of the Year – Co-Development
- SAP® Hybris® Partner of the Year – Large Enterprises
- SAP Value Assurance Partner of the Year

"Accenture is honored to be the winner of three SAP Pinnacle Awards for 2018, as it demonstrates our commitment to helping our clients achieve success through our long-standing and deep alliance with SAP," said Christophe Mouille, senior managing director and Global SAP Business Group Lead at Accenture. "By co-innovating and co-developing with SAP, Accenture has helped to accelerate

development of SAP's core products, while also developing new industry cloud solutions. Recognition for our work with SAP Hybris and SAP S/4HANA reinforces the results from our unique collaboration to achieve flexible, intelligent solutions for our clients."

The SAP S/4HANA Partner of the Year – Co-Development award recognizes an alliance SAP partner for its outstanding collaboration to co-develop, extend, and jointly go to market with SAP S/4HANA

Industry Solutions. For more than two years, Accenture and SAP have joined forces in the core and industry development and go-to-market of SAP S/4HANA. Accenture is working with clients including Celsia, Orkla and The Hershey Company to implement SAP S/4HANA as part of a digital transformation.

The SAP Value Assurance Partner of the Year recognizes an SAP partner for its impact on the success of its customers using SAP S/4HANA through SAP Value Assurance service packages. The Accenture Intelligent Enterprise Platform embeds SAP Model Company services - prepackaged, ready-to-use, end-to-end reference services tailored to an industry or line of business. SAP Value Assurance service packages are also delivered in collaboration with Accenture and address all project phases.

Accenture also recently won the SAP® Ariba® EMEA South Partner of the Year award. This award was presented by SAP Ariba to the top-performing partner in the EMEA South region that made outstanding contributions to driving customer digital transformation.

"The open partner ecosystem of SAP has more depth, talent and expertise than any ever created in the technology industry," said Bill McDermott, CEO of SAP. "I could not be prouder of the great partners who earned this prestigious recognition for their commitment to our customers."

Winners and finalists in 29 categories were chosen based on recommendations from the SAP field, customer feedback and performance indicators, including two Customers' Choice awards, which recognize customer-nominated SAP partners.

SAP Pinnacle Awards shine a spotlight on SAP's partners' remarkable contributions, acknowledging their dedication to teamwork, innovative approach and capacity to challenge what is possible to help customers achieve their goals. Award winners will be formally recognized at the SAP Global Partner Summit in Orlando, Fla. on June 4. The SAP Global Partner Summit is held in conjunction with SAPPHIRE NOW® and ASUG Annual Conference, the largest global business technology event, hosted by SAP and ASUG June 5-7.

Click here to return to Contents

Bamboo Rose Opens Belfast Office, Taps Local Engineering Talent to Drive Product Innovation

29 May 2018

Bamboo Rose announced today the opening of a new office in Belfast, Northern Ireland. The project is supported by Invest Northern Ireland and will see Bamboo Rose expand its international presence and create up to 75 new roles in Belfast.

With current offices in Boston, Bangalore, Hong Kong, and Maidenhead, U.K., Bamboo Rose is expanding to meet the needs of its European customers. Just as the Boston office provides support to U.S.-based companies, the Belfast office will support customers in the U.K. and other European cities. The bulk of the Belfast employees will focus on software development and engineering, increasing Bamboo Rose's global support and services.

"By opening this office in Belfast, and tapping the vast pool of tech talent located here, Bamboo Rose is making great strides toward mobile engineering and other software advancements," said Sue Welch, CEO at Bamboo Rose. "The wealth of talent in Belfast will drive significant growth in our tech operations in the next few years, ultimately powering us to innovate further and create better software to

connect the international retail community.

"As well as providing support to help create the new jobs, Invest NI has introduced us to other software companies and helped us understand the local market and culture."

The new Belfast office is the latest in a series of actions focused on continuous product enhancement and innovation. In December, Bamboo Rose announced new capabilities associated with 3D design, augmented reality, and machine learning; in September, Bamboo Rose rolled out the first fully mobile product innovation platform in the industry.

Positioned in a center of technological talent, the Belfast office will draw from nearby educational institutions like Queen's University and Ulster University. The investment in Northern Ireland will allow Bamboo Rose to tap into international resources not previously available, joining the ranks of other Boston-based companies expanding offices into the leading technology hub of Belfast.

As an additional part of its commitment to advancement, Bamboo Rose will also host part of its Innovation Lab in the new office. This lab is the company's testing ground for emerging technologies, functionality, content, and services. It serves to concentrate creativity and the development process to continuously improve the multi-enterprise retail platform. While not all projects in trial in the innovation lab make it to the platform, some examples of projects currently in the lab include: 3D sampling, digital and labor-based services using AI and advanced analytics, and voice recognition.

"Bamboo Rose is joining many other tech companies locating to Northern Ireland, connecting them with the workforce they need to drive forward their business," said Gary Hanley, Senior VP for North Americas at Invest NI. "Our business-friendly environment and availability of highly skilled people is continuing to attract new businesses here. With both an R&D function and a professional services team, the new office in Belfast will offer a variety of roles for software engineers and support staff."

[↑]*Click here to return to Contents*

GROM Achieves SAP Gold Partner Level

31 May 2018

GROM, which offers sales and support for SAP® solutions, today announced that it is now an SAP gold partner. SAP gold partners consistently demonstrate that they have the vision, talent and dedication to guide their customers to higher levels of success using industry-leading and cutting-edge technology solutions from SAP.

"We are proud to achieve the SAP gold partner level and strengthen our partnership alignment with one of the world's most valuable brands, SAP," said Robert Grom, president and CEO of GROM. "We look forward to providing the benefits associated with our increased access to SAP's technology and roadmaps to each of our customers."

It was only three years ago that GROM became an authorized reseller of SAP solutions, adding that capability to a highly successful implementation and business-development practice. It soon became clear that customers running SAP software were benefitting from GROM's demonstrated expertise and business performance, and saw tremendous value offered by its vision.

[↑]*Click here to return to Contents*

Olaf Pietschner is appointed as Head of Capgemini in Australia and New Zealand

29 May 2018

Capgemini announced today the appointment of Olaf Pietschner as Head of Capgemini in Australia and New Zealand, effective immediately. Mr. Pietschner, formerly Chief Operating Officer for the region, succeeds Nicolas Aidoud who has decided to pursue new opportunities.

Luc-Francois Salvador, Executive Chairman of Capgemini in Asia Pacific and Middle East, commented, "Olaf has been a key member of our executive team and is a proven leader with extensive industry experience and operational expertise. As we move forward into the next phase of our continued transformation and growth, Olaf's extensive experience in business, technology consulting and digital transformation will strengthen our innovation agenda to address the business ambitions of our clients, aligning our service portfolio with customer demand for both innovation and competitiveness. Asia Pacific is Capgemini's fastest growing region and a top priority for the Group as we continue to capitalize on the opportunities in this market. I would like to thank Nicolas for his leadership and his contribution to the Australian business."

Olaf joined Capgemini in May 2017 as Executive Vice President and Chief Operating Officer. Since

then, he has played a pivotal role in driving Capgemini's offerings in intelligent technology, shaping a client centric portfolio to drive competitiveness and growth, while providing leadership to the Energy & Utilities; Public Sector; and Telecommunications, Media and Entertainment business units. Prior to joining Capgemini, Olaf held key executive roles in both client and services organisations.

"I am honoured to have the opportunity to lead Capgemini in Australia and New Zealand as we continue to build on our momentum for growth. With over 2000 employees working with our clients in the Top 50 ASX listed companies and major public sector organisations, we will continue to leverage our

investments in Digital and Cloud, taking a client centric approach to drive our clients' innovation priorities for real business outcomes," added Olaf Pietschner, Head of Capgemini in Australia and New Zealand.

[↑]*Click here to return to Contents*

PROLIM Welcomes Mr. Aaditya Vidyarthi as Head of APAC and Europe

25 May 2018

PROLIM Global Corporation is pleased to announce the addition of Aaditya Vidyarthi as Head of APAC and Europe. He is responsible for the overall management and strategic direction of PROLIM's business in these two key geographies, effective immediately.

Aaditya is experienced in several technology domains, including CAD, CAM, Cloud computing, ALM, PLM, and ERP. He has led large consulting engagements.

Aaditya is an accomplished business leader, motivator, and mentor in Multinational PLM and IT Organizations in India. He is an expert in challenger sales, enterprise consultative sales, business conversations, resource optimization, value creation, and competitive differentiation. Aaditya's

professional success is strongly based in his unique formula: "Never lost a Competitive Opportunity, never won it on the Price." He strongly believes in bringing a unique insight to a business opportunity, based on competitive differentiators.

Aaditya has a Bachelor of Engineering degree and Post Graduate degree in Business Management from SP Jain Institute, Mumbai, India.

⬆ *Click here to return to Contents*

South Korea's Industrial Powerhouse Partners with Materialise to Drive Business Growth through Additive Manufacturing

28 May 2018

Ulsan Metropolitan City, South Korea's industrial center, has announced a collaboration with Materialise to drive business growth for the local manufacturing industry by leveraging the transformational power of additive manufacturing. As part of this agreement, Materialise will engage in co-creation campaigns with local manufacturing companies to identify opportunities to optimize the manufacturing process.

Over the past several decades South Korea has positioned itself as a leading manufacturing economy. Ulsan Metropolitan City, South Korea's seventh-largest metropolis, is at the heart of this manufacturing industry, hosting some of the world's largest automobile assembly plants, shipyards and oil refineries. In order to reinforce its competitive position, the Ulsan Metropolitan City government is presenting a roadmap of growth that will focus on the convergence of digital technologies and manufacturing, leading to smarter and better connected production processes and factories.

Additive manufacturing will play a key role in this digital, data-based transformation and that is why the Ulsan Metropolitan City government is teaming up with Materialise. With almost three decades of 3D printing experience, Materialise is a pioneer and a leading provider of Additive Manufacturing software and services for the medical and industrial markets.

"Additive Manufacturing is a transformational technology that has the potential to create fundamental changes in the manufacturing process", says Johan Pauwels, Executive Vice President at Materialise.

"With major improvements in speed, quality and materials, Additive Manufacturing is quickly positioning itself as a complementary or alternative manufacturing technology when solving specific manufacturing challenges. By delivering weight, performance and cost advantages it allows for fundamental design optimizations and functional improvements, such as lighter designs, that are impossible to create with standard manufacturing technologies."

Innovation through co-creation

As part of the agreement, Materialise will help manufacturing companies in Ulsan Metropolitan City to develop applications that generate business growth by enabling significant manufacturing process optimizations. This will happen through intensive co-creation projects, where Materialise will combine its 3D printing expertise with the manufacturing company's industry and product knowledge and manufacturing experience. During this process, both companies will look for elements in the production process that can benefit from the design optimizations and manufacturing flexibility provided by Additive Manufacturing. The results of these co-creation projects will be presented at the Ulsan 3D

Printing Tech Festa on September 13-15 and will serve as a blueprint for other manufacturing companies to adopt Additive Manufacturing as a complementary manufacturing technology.

Tata Technologies to Move North American Headquarters to Detroit's Techtown

29 May 2018

Tata Technologies, a Tata Group company, announced today that it is relocating its North American headquarters from Novi to Detroit in early 2019.

Tata Technologies CEO Warren Harris and COO Sonal Ramrakhiani made the announcement at the company's soon-to-be headquarters at 6001 Cass Ave. in Detroit. They were joined by Mayor Mike Duggan, Platform Executive Chairman Peter Cummings, Platform President and CEO Dietrich Knoer, and Detroit Economic Growth Corp. Executive Vice President Peter Chapman. The building, located in Detroit's TechTown neighborhood, will undergo a complete rehabilitation to accommodate more than 150 Tata Technologies employees.

Harris listed proximity to leading automotive, mobility and tech companies, access to talent, and support from Detroit Mayor Duggan as just some of the reasons for the move.

"North America is a very important market for Tata Technologies," Harris said. "Being part of Detroit's business environment will enable access to automotive, mobility and tech companies, thereby accelerating our growth strategy and, in return, allowing us to reinvest in the city with new jobs. We are thankful to the Mayor, The Platform and the DEGC for their support in helping Tata Technologies

locate its North American headquarters in Detroit."

"For 150 years, the Tata Group has placed community at the core of its purpose," said Sonal Ramrakhiani, Tata Technologies Chief Operating Officer – Americas. "In keeping with that ethos, Tata Technologies has actively contributed to community development since we were founded in Michigan in 1989. We look forward to contributing to the 'resurgence of Detroit' by creating STEM job opportunities."

"We are thrilled that Tata Technologies has chosen Detroit as the site of its North American headquarters and will work with their partners at The Platform to renovate a significant building in our city's core," Mayor Duggan said. "Tata Technologies joins a growing number of global companies in choosing Detroit as a base. This move helps to strengthen Detroit's position as a leader in automotive technology and mobility."

The company's new Detroit headquarters was built in 1927 as the Cadillac LaSalle Sales and Service Building. The 130,000-square-foot building was designed by renowned Detroit architect Albert Kahn and will also house a 6,000-square-foot gallery for Wayne State University's art collection. The building is part of The Platform's larger vision for TechTown, which also includes Cass & York, a 54-unit premier condominium development; an apartment building on Antoinette Street and a 550-space parking garage.

"We have long thought that Detroit's TechTown and Milwaukee Junction areas should be a hub for today's mobility economy," Knoer said. "Tata Technologies' decision to move into 6001 Cass is an important step in the execution of that vision. We are proud to welcome Tata Technologies to our

building."

The DEGC facilitated Tata Technologies' move to Detroit, first connecting with company representatives at a Site Selector Forum held by the Business Development team last year. From there, Chapman and his team worked to identify real-estate options and reinforce Detroit's value proposition.

"Detroit now serves as the nexus of placemaking and talent attraction for companies that want to grow here and abroad," Chapman said. "Tata Technologies' new headquarters will provide the company with a distinct competitive advantage. It also further defines Detroit as a global leader in strategic sectors such as mobility, innovation, technology and global commerce. Detroit is building a critical mass of global companies and foreign-owned enterprises that see the city's value and are contributing to its vibrancy."

Tata Technologies is a global engineering consulting organization with core specialization in the automotive, aerospace and industrial heavy machinery verticals. The company delivers customized solutions for engineering and design, product lifecycle management and enterprise IT system integration for the manufacturing sector. Tata Technologies is a company of engineers, led by engineers, with more than 8,500 associates representing 27 nationalities globally.

Founded in 1989, Tata Technologies has been helping ambitious manufacturers create great products, covering every aspect of the value chain from conceptualization, manufacturing, aftermarket and maintenance repair to overhaul support. This includes a comprehensive, integrated set of engineering services, IT processes and tools to manage the product development process and complete manufacturing ecosystem.

Tata Technologies serves clients in 25 countries, with a delivery model specifically designed for engineering and IT engagements that offers a unique blend of deep, local expertise integrated with six global delivery centers – Detroit (USA), Pune-Hinjawadi (India), Bangalore (India), Coventry (UK), Stuttgart (Germany) and Bangkok (Thailand). The international headquarters is located in Singapore.

⬆️*Click here to return to Contents*

TCS Belgium wins Datanews Award for Excellence for the 8th consecutive year

10 May 2018

Tata Consultancy Services today announced that it received a Datanews Award for Excellence as 'ICT Services Company of the Year 2018' in Belgium.

The Datanews Award for Excellence follow TCS Belgium's recent recognitions as #1 in Whitelane's customer satisfaction survey, as Top Employer by the Top Employer Institute and as top 3 brand in IT services globally by Brand Finance.

Stijn Viaene, chairman of the jury: "This category was open to a broad range of IT service providers in the enterprise segment. Service excellence is defined from a customer perspective and includes the various ingredients of a productive service relationship in view of the requirements for digital performance and transformation: flexibility in contracting, pro-activity in account management, quality of service delivery and the ability to co-transform with customers. The jury observes how TCS is able to consistently deliver at a very high performance. The award is well deserved."

Jipson Mathew, Country Head, TCS Belgium: "We are honored and thrilled to be selected as a winner

of these Excellence Awards. Coming at a time when we are actively supporting and partnering with our customers in their transformation journeys, being recognized as a leader in 'ICT Services' is powerful evidence of our competence, commitment and contribution to the IT services sector in Belgium."

The winners of the Datanews Awards for Excellence are selected based on a public voting process and a jury assessment. The public voting will result in a top 3 per category, after which a professional, specialist jury determines the final winners in each of the categories.

This year, it was the 19th time Datanews handed out the Awards for Excellence. In the past 8 years, TCS had won awards for 'Outsourcing Company of the Year' and was runner up in 'Customer Satisfaction'.

Click here to return to Contents

TCS Welcomes 400+ New Employees to St. Petersburg

23 May 2018

Tata Consultancy Services (TCS) welcomed more than 430 new employees to St. Petersburg, Florida, as part of its groundbreaking agreement with Transamerica to transform the administration of its U.S. insurance and annuity business lines.

TCS will occupy several floors of Transamerica's building at 570 Carillon Parkway in St. Petersburg, as part of a multi-year agreement with Transamerica to rapidly enhance its digital capabilities, simplify the service of more than 10 million policies into an integrated modern platform, and drive growth opportunities through superior customer service. More than 430 former Transamerica employees now work for TCS at this new St. Petersburg facility, as part of TCS recruiting and investing in more than 2,200 Transamerica jobs across the U.S. in multiple locations.

"This is great news, not just for St. Petersburg, but for all of Florida. Through tax cuts and our business-friendly environment, Florida continues to attract and grow world-class businesses like TCS that create jobs for our families and have a positive impact on our communities," said Governor Rick Scott. "The Tampa Bay area is one of the fastest growing areas of our state and is a leader in demand for STEM jobs."

The St. Petersburg office is a new U.S. business center for TCS, adding to the 1,000+ employees already serving American businesses throughout the state. As part of TCS' ongoing investment in the region, the company plans to expand its flagship goIT education program, which was successfully launched last year in St. Petersburg. The program has been inspiring underserved youth to explore app development, design thinking and technology careers, since 2008.

Additionally, TCS plans to bring its Ignite My Future in School program to Florida, providing free professional development and resources for educators to integrate computational thinking – a foundational skill for 21st century careers – into core subjects. Nationally, Ignite My Future in School aims to reach 20,000 educators and one million students over a five-year period.

Over past several years, TCS has also made a tremendous community impact in Florida where our employees work and live. Since 2010, TCS has hosted 177 Corporate Social Responsibility (CSR) events across the state, involving 5,550 employees who donated 14,940 hours at local food banks, schools and community gardens, among others. As a result, TCS has built meaningful relationships with local nonprofits including Hope Lodge, the American Red Cross, the American Heart Association, and

March of Dimes.

"We are excited to welcome more than 430 Floridians to our workforce and new office building in St. Petersburg as we continue to invest in the best local talent and increase our presence across the great state of Florida," said Suresh Muthuswami, President and Global Head, Banking, Financial Services and Insurance Platforms, TCS. "TCS is a leading industry employer in the U.S., striving to help American companies like Transamerica to digitally transform their business and capitalize on rapidly evolving customer demands. We look forward to partnering with St. Petersburg's city, state and local organizations to further build upon our business and community impact."

TCS has invested nearly $3 billion in the U.S. over the past three years and has been among the top two IT services job creators in the U.S. It is also one of America's 50 most community-minded organizations, engaging nearly two million Americans through its extensive nationwide STEM education programs, academic partnerships and endowments to schools such as Carnegie Mellon University, Cornell Tech and Massachusetts Institute of Technology.

⬆️*Click here to return to Contents*

Events News

Avnet to Present at the BAML 2018 Global Technology Conference

1 June 2018

Avnet today announced that the start time for the Company's scheduled presentation at the BAML 2018 Global Technology Conference in June has been updated to an earlier time slot.

Tom Liguori, chief financial officer, will now be presenting at 9:30 a.m. PST on June 7, 2018 at the BAML 2018 Global Technology Conference to be held at the Ritz-Carlton Hotel in San Francisco, Calif.

The Avnet presentation will be broadcast live over the Internet at www.ir.avnet.com. Interested parties should log on to the website 15 minutes prior to the presentation time to register for the event and download any necessary software.

⬆️*Click here to return to Contents*

NTT Group Brings Top Leadership and Award-Winning Teams to SAP SAPPHIRE NOW

30 May 2018

NTT Group, represented by NTT DATA, itelligence, NTT Communications, Dimension Data, NTT Security and Secure-24, today announced its companies will receive recognition for four awards at the SAP Global Partner Summiton June 4 and the SAP SAPPHIRE NOW® conference, June 5-7, in Orlando, Florida, held in conjunction with the Americas' SAP Users' Group (ASUG) Annual Conference. In addition, NTT companies will make six official theatre presentations and 15 booth presentations at booth #701.

"Lending the highest-level corporate support to this major cloud and business technology conference,

NTT Group is eager to share our knowledge and expertise at SAP SAPPHIRE NOW," said Eric Clark, President Applications Services, NTT DATA Services. "Having delivered strong results in SAP integration work and cutting-edge SAP projects across many industries, the leaders of our companies are excited to demonstrate how our combined resources and partnerships are digitally transforming businesses and satisfying customers around the world."

Click here to return to Contents

SpecPage & Koch Foods to Present at GS1 Connect on Addressing Data Quality and Regulatory Compliance

30 May 2018

SpecPage will partner with Koch Foods to lead a presentation on data quality and regulatory compliance at the upcoming GS1 Connect conference.
The presentation, "How to Generate Content to Address Data Quality/Regulatory Compliance," will be led by industry experts Milan Vacval, vice president of professional services at SpecPage, and Gerry Leganski, vice president of operations at Koch Foods.

Key benefits include the assessment of specific processes and solutions for achieving data quality and regulatory compliance in the food and beverage industry. The presentation will specifically examine ways in which Koch Foods was able to leverage SpecPage solutions to manage an accurate and accessible flow of data between internal and external stakeholders to boost key compliance metrics. Attendees will learn how to adapt to growing customer expectations for transparency and traceability in food preparation and handling and accessible nutrition information.

This is the first public collaboration between SpecPage and Koch Foods. Koch Foods is one of the largest growers, manufacturers and processors of poultry in the U.S. SpecPage develops and supplies comprehensive software solutions with central storage and specification management to provide transparency and simplify global regulatory requirements for food and beverage manufacturers.

"There has been a dramatic shift in how consumers approach food and beverage purchases. No longer are they shopping on auto-pilot. Instead, they're more savvy than ever – they search for products by function and attribute," said Vacval. "For this reason, it is especially important for food and beverage companies to provide accurate information to customers – and to improve the overall efficiency of product development and lifecycle management. Our presentation will empower food and beverage executives with the knowledge they need to ensure compliance while boosting speed to market."

GS1 Connect brings trading partners together to network and learn about the value of using standards-based business processes and best practices for optimum efficiencies in managing the supply and demand sides of their value chain. The conference will highlight industry best practices, including how to collaborate to improve business processes and how to strengthen professional networks to foster innovation and growth.

SpecPage and Koch Food's presentation will take place from 2 p.m. to 2:45 p.m. on June 6.

Click here to return to Contents

Implementation Investments

Capgemini signs strategic agreement with Yara to enable its digital transformation

29 May 2018

Capgemini today announced that it has signed a multi-year agreement, to the value of tens of millions of euros, with Yara International ASA (Yara), one of the world's leading fertilizer companies headquartered in Oslo with over 16,000 employees and a presence in more than 60 countries. Under the agreement, Capgemini in Norway will deliver a wide range of services that will enable Yara's global digital transformation.

The new agreement will see Capgemini deliver services including application management of the entire SharePoint and SAP environment at Yara, application development, application operations, and managed hosting services. Capgemini will support Yara with a hybrid cloud strategy combining best-in-class private cloud with Microsoft Azure public cloud. The cost effective new solution will also enable a faster time to market for Yara.

Capgemini was selected after a competitive tender between the incumbent and new vendor, during which Capgemini demonstrated its ability to provide multiple services at scale including market-leading cloud solutions, and large SAP implementations.

"We are very proud and pleased that Yara has selected Capgemini as their new strategic long-term IT partner. Not only will we support them with a seamless cloud solution for SAP and SharePoint, we will also enable their digital strategy and build a foundation for digital evolution," says Anil Agarwal, Head of Capgemini in Norway and Sweden.

[↑]*Click here to return to Contents*

Centric PLM Selected by Lojas Renner

29 May 2018

Centric Software announces that Lojas Renner, the largest fashion retailer in Brazil, has selected Centric Software to provide its Product Lifecycle Management (PLM) solution.

With an illustrious history that stretches back to the foundation of the first A.J. Renner store in Porto Alegre, Lojas Renner incorporated in 1965. Since then, it has grown to become the largest fashion retailer in Brazil. Lojas Renner owns three separate businesses: fashion retailer brand Renner, specialized youth brand Youcom and home and décor brand Camicado. With 512 stores across Brazil, a thriving e-commerce channel and a recent expansion into neighboring Uruguay, Lojas Renner is a giant of the South American fashion retail scene.

"Lojas Renner is expanding and also collaborates with a sourcing office in Shanghai," explains Henry Costa, Product Director at Lojas Renner. "Our core business challenges are related to faster product development cycles and digitalization of processes. In order to meet our development goals, we decided to invest in a PLM solution."

"Before PLM, product development was done with a combination of Excel, Powerpoint, email and even instant messaging," Costa continues. "There were too many issues with using these disparate systems

and there are also differences in operations between the brands. Our main goal with PLM is to improve collaboration in order to reduce time to market and achieve alignment across product development."

Lojas Renner's selection process whittled an initial list of 12 PLM providers down to four, and then two. Users tested the final two competing solutions and scored them on a variety of criteria. Centric PLM came out on top.

As Costa explains, "All users had a checklist to complete and Centric PLM ranked highest for user interface. We also examined the IT side in relation to our existing infrastructure. Centric PLM can integrate well with our other systems, which makes a huge difference."

Costa concludes, "We're looking forward to getting started. The Centric team has been very helpful and available whenever we needed them. Centric are very knowledgeable about PLM for fashion and are responsive to our needs."

"We are delighted to partner with Lojas Renner as our first retail customer in Brazil," says Chris Groves, President and CEO of Centric Software. "As the largest fashion retailer in Brazil, Lojas Renner wanted an innovative, easy to use solution to help drive digital transformation and global expansion. We look forward to working with them now and into the future as they continue to transform and grow."

Click here to return to Contents

Dassault Aviation adopts Dassault Systèmes's 3DEXPERIENCE platform

28 May 2018

Dassault Aviation has signed a cooperation agreement with Dassault Systèmes for the implementation of the 3DEXPERIENCE platform within the Dassault Aviation group.

This multi-year agreement covers the replacement of Dassault Aviation's civil and military aircraft programs with the 3DEXPERIENCE platform for all PLM (Product Lifecycle Management) solutions.

On this occasion, Dassault Aviation took a new step to maintain its lead in digital industrial processes, of which it has been a pioneer for over 30 years.

This approach is part of the transformation plan launched by Dassault Aviation to further optimize its operations in terms of product and service cycles, quality and costs.

The 3DEXPERIENCE platform should enable Dassault Aviation to respond to the challenges ahead: expansion of the Falcon range of business jets, evolution of the Rafale fighter, cooperative development of the future combat aircraft and the MALE observation UAV, etc.

This cooperation agreement is in line with Dassault Aviation's culture of continuous innovation, which has been the crucible of the CATIA software and which then led to the emergence of the virtual model process, then the digital collaboration process between industrial partners for international cooperation programs.

Eric Trappier, Chairman and CEO of Dassault Aviation, said: "As an industrial architect and integrator of complex aeronautical systems, the backbone of a strategic industrial fabric with hundreds of companies in France and abroad, Dassault Aviation has always implemented the best digital processes to design, manufacture and support the products and services expected by our civil and military customers throughout the world. Today, we are convinced that 3DEXPERIENCE is the most advanced solution to

support all our businesses."

Bernard Charlès, Vice Chairman of the Board of Directors and CEO of Dassault Systèmes, added: "Dassault Aviation has chosen an ambitious strategy: to implement the 3DEXPERIENCE platform as a vehicle for business integration and transformation, integrating business model, industrial model, development and support. This illustrates perfectly the multi-faceted dimension of collaborative innovation that enables us to offer unique experiences to our prestigious clients. Digital business twins, enabling the integration of products with services, are a perfect illustration of the industry of the 21st century."

Siemens' Polarion streamlines application management for Energias de Portugal

25 May 2018

Energias de Portugal (EDP) has chosen Polarion ALM™ software, the Application Lifecycle Management (ALM) solution suite from Siemens PLM Software, to streamline its software applications management process. EDP is using Polarion to help achieve agility, traceability and compliance for its complex set of software applications and processes. Implementing Polarion can help EDP to operate more efficiently and transparently, resulting in higher value for its customers.

"Polarion ALM software will provide the important tools we need for our complex business environment, while integrating easily within our IT infrastructure," said Filipe Lucas, IT Architectures Director from EDP. "The ability to have a knowledge base of the requirements for our business processes and applications, and the traceability among all levels of requirements and tests, as well as using an open product architecture were key factors in our decision to use Polarion as our solution."

Polarion will help enable EDP to manage the requirements of over 200 distinct software applications and easily gain a 360 degree view of any project history, status and outlook, as well as the full impact of changes. Using Polarion, EDP can manage requirements by business process, functional and technical application, as well as all acceptance tests, system tests, unit tests, integrated tests and related defects.

The use of Polarion in EDP aims to respond to a continuous evolution of the applications. The software will be used as a knowledge base on all business processes and all supporting software applications.

Using Polarion will increase information accessibility, providing access of all information to EDP users and suppliers. The information is structured by 24 companies with more than 600 business processes, business requirements and respective acceptance tests and defects, and more than 200 software applications with specific functional and technical requirements and respective system tests, unit tests, integrated tests and defects. This information is being used in all EDP geographies by more than 500 users. By implementing Polarion ALM, EDP can streamline information retention and enable developers to reuse information, increasing control over multiple processes, including testing and compliance.

"Polarion ALM software is an ideal solution for EDP and the energy industry as a whole because of its ability to continuously integrate, verify and validate the growing software content built into these businesses," said Joe Bohman, senior vice president, Lifecycle Collaboration Software for Siemens PLM Software. "Using Polarion will help enable EDP to streamline business functions and ultimately increase value to its customers."

Polarion ALM Software is the leading software for a 100 percent browser-based and unified platform

for Requirements, Quality, and Application Lifecycle Management. It helps global organizations in a wide range of industries from automotive to medical device and aerospace - developers of complex products people trust - achieve agility, traceability and compliance. More than 2.5 million users worldwide rely on Polarion to fuel collaboration, integrate ALM and PLM, and more efficiently bring their high-quality products to market.

For more information on Polarion: https://polarion.plm.automation.siemens.com/hubfs/Docs/Fact-sheets/Siemens-PLM-Polarion_ALM_Fact-Sheet.pdf

⬆️*Click here to return to Contents*

Product News

Latest version of Teamcenter delivers more PLM value for lower cost of ownership

30 May 2018

Siemens announces the latest version of the Teamcenter® portfolio, the world's most widely used product lifecycle management (PLM) software. Teamcenter helps reduce the overall cost to manage and maintain PLM through cloud-based deployment options, while providing more convenient web browser access, on any smart device, along with tools to more easily manage and maintain the software itself. New and enhanced solutions extend the technical depth and business-solution breadth of the Teamcenter PLM portfolio, which enables customers to digitalize their business and make informed decisions based on the insights gained from a digital twin of the physical operation or product.

"With the latest version of Teamcenter, we're delivering a modern, adaptable PLM system that is proven to change and grow with our customers as they face the challenges of industry and market disruption," said Joe Bohman, senior vice president, Lifecycle Collaboration Software for Siemens PLM Software. "We're focused on making Teamcenter more cost-effective to deploy and own, while extending access to more users with web-based solutions spanning across the product lifecycle. With this release, our customers will enjoy significantly faster performance across multiple sites – for example, up to 10 times faster data transfers, 5-10 times faster data synchronization, and increased throughout up to 2 million objects per hour."

Teamcenter helps customers realize innovation through greater IT efficiency with modern, adaptable PLM deployment options. Deployment Center, a web-based installer, helps customers more easily manage Teamcenter spanning an unlimited number of environments. The new release offers full platform support, making it easier to set up a Teamcenter environment.

"America Makes Digital Storefront is a secure online platform for additive manufacturing delivered with Teamcenter on the cloud using Amazon Web Services," said Joe Veranese, business systems manager for America Makes. "More than 215 member organizations access the Digital Storefront through Active Workspace, the easy-to-use web client for Teamcenter. It has been easy to configure and extend Active Workspace to make the information not just available, but consumable, so we can provide information to the membership quickly and without the roadblocks of other tools."

Teamcenter gives customers more options to manage the cost of PLM ownership by partnering with a diverse cloud partner base, including Microsoft Azure and Amazon Web Services, and leveraging the cloud expertise of Siemens' global managed services organization and channel partners.

"Joyoung has been named China's most influential small household appliance brand for eight consecutive years. Teamcenter brings together the product information and processes to drive our overall business performance," said Jing Jin, PLM project manager, Joyoung. "The streamlined and intuitive PLM user experience of Active Workspace has made it easier for our executives to review and approve technical documents and manage our supply chain."

Visualization is essential to cross-company collaboration, because it allows people to view and interrogate product designs with the industry standard 3D JT™ data format. Support for low cost virtual reality (VR) devices lets anybody step inside, interact with, and interrogate their products in an immersive environment. By adding the option of client-side graphics processing for Active Workspace users, Teamcenter helps reduces cost and improve performance of the collaboration between MCAD and non-MCAD users -- at a lower cost of ownership -- by taking advantage of existing hardware investments.

Teamcenter delivers ultra-fast, multi-site collaboration by speeding up the transfer and import of large amounts of product data with high throughput during replication and synchronization across sites.

Teamcenter extends web-browser access to more business solutions across the product lifecycle. The new Teamcenter Program Planning solution combines a top-down approach to program planning, determining what should be executed, with a bottom-up approach that validates what can be executed. New smart discovery capabilities for bill of material (BOM) management enable teams and individuals to quickly search and filter across massive amounts of data to find only what is required to fulfill a particular task.

Siemens PLM Software's approach to Systems Driven Product Development (SDPD) and Model Based Systems Engineering (MBSE) brings together multiple design domains – mechanical, electrical, and software -- along with considerations like cost, reliability, and manufacturability. SDPD drives the entire downstream development/delivery process for continuous engineering throughout the entire cross-product lifecycle. Because Teamcenter understands how everything fits together, domain-specific decisions are always made with the big picture in mind.

For more information about the latest release, visit the Teamcenter blog: Teamcenter 12: Adaptable, enterprise product lifecycle management (PLM).

⬆️Click here to return to Contents

New Utopia Solution Introduces Extensive Asset Master Data Reference Library

30 May 2018

Utopia Global, Inc. has announced the launch of the Utopia Asset Data Reference Library (uADRL), which houses over 500,000 models and material data records for new and brownfield assets. This library makes available critical master data for maintenance, planning and scheduling tasks through SAP® Asset Intelligence Network.

The uADRL provides operators with cleansed and accurate information on equipment manufacturers, models, characteristics and failure data compliant with ISO 14224. It also includes over 400 templates for integration with SAP solutions for enterprise data management. uADRL is tightly integrated with SAP Asset Information Workbench by Utopia and SAP Master Data Governance, enterprise asset management extension by Utopia, to allow for ongoing governance and syndication of master data

across multiple systems of record.

"We believe master data is the DNA of an enterprise, and those trusted to maintain and manage that data need a single source of trusted information about their enterprise assets," said Arvind J. Singh, CEO and co-founder of Utopia Global. "The Utopia Asset Data Reference Library enables customers to have comprehensive information on their as-built equipment on Day One of commissioning versus waiting months, in some cases. Depending on facility size, this can help customers save millions in annual costs associated with unexpected downtime for a single production facility."

"Getting asset content to the field is essential and incredibly hard and costly for brownfield plants and equipment," said Patrick Crampton-Thomas, vice president, Digital Product and Asset Management, IoT and Digital Supply Chain, SAP. "This is a great step forward to help operators reduce costs and downtime."

For more information on uADRL and other Utopia solutions, please visit www.utopiainc.com.

⬆️*Click here to return to Contents*

Ray Optics Simulation of Rotating Devices for Aerospace and Defense Applications

30 May 2017

Engineers developing technologies such as laser and fiber ring gyroscopes for civilian and military applications can now test new ideas and configurations in the virtual world using numerical simulation. The Ray Optics Module, an add-on product to the COMSOL Multiphysics® software, supports the ability to accurately trace rays through a moving geometry.

To showcase this capability, COMSOL is excited to announce the addition of a Sagnac Interferometer example model, complete with documentation and solution, to the Application Galleries. The new example provides simulation specialists with a working application of the Sagnac effect, the fundamental operating principle of ring laser gyroscopes, and will help those working with attitude detection to get a better understanding of the sensitivity and accuracy of such complex inertial navigation systems.

"We are very excited to share the Sagnac Interferometer model with the simulation community," says Christopher Boucher, Technical Product Manager, COMSOL, Inc. "Just specify the angular velocity, and then you can accurately trace rays through the interferometer as it rotates, even though the two phenomena happen over vastly different time scales.

This is a real game changer for those working in the aerospace and defense industries. To our knowledge no other commercial software solution is able to execute this." The movement in the example model is simple rotation, but the same capability could be applied to combinations of translation and rotation.

Multiphysics models can also be built coupling ray tracing with structural deformation, including thermal stress.

The Application Galleries features hundreds of example models and apps to help simulation specialists get started using COMSOL Multiphysics®.

⬆️*Click here to return to Contents*

RevolutionInSimulation.Org Public Web Portal Launched to Support Simulation for Everyone

30 May 2018

Today, the new web portal Revolution-In-Simulation.Org (Rev-Sim.org) was launched to support a growing industry-wide movement to make engineering simulation more accessible, efficient, and reliable; not just for CAE experts but also for non-specialists – the "Democratization of Simulation" to accelerate innovation.

The Revolution in Simulation initiative (aka, Rev-Sim) is a collaborative effort among simulation experts, industry end-users, and solution providers, sharing a mission to create an open community to access and share useful, vendor-agnostic information. The portal provides end-users with knowledge and solutions for democratizing simulation – Revolution in Simulation is not yet another forum to market products and services.

The Rev-Sim.org website provides access to the latest success stories, news, articles, whitepapers, thought leadership blogs, presentations, videos, webinars, best practices and other reference materials to help industry democratize the power of simulation across their engineering, manufacturing, service, supply chain, and R&D organizations. Site visitors are encouraged to ask questions and participate in discussions with industry peers and moderators who are identified by their subject matter expertise and to contribute to this community effort. There is also access to simulation specialists, industry organizations, and special interest discussion groups, along with software and consulting service providers, to accelerate the return on a company's simulation investments.

Rev-Sim.org Co-Founding Principal, Malcolm Panthaki comments:
"Extending simulation across the entire product development team is critical for today's compressed product cycles. When it takes days or weeks of experts' time to analyze a design iteration, it is hardly surprising that CAE has not achieved its potential impact on product development. The faster and more automatically new designs can be analyzed by experts and non-experts, the more alternatives can be considered. Rev-Sim.org was developed to fuel this democratization movement. This public website provides educational resources and builds a collaborative community to help significantly increase the value of a company's simulation (CAE) investments through the Democratization of Simulation. Through Democratization, an organization's experts will put the power of simulation safely and robustly into the hands of non-experts including designers, junior engineers and even those on the sales front. This revolution is well underway, join us!

Click here to return to Contents

Senet and Laird Announce Collaboration on Enterprise IoT Gateway

31 May 2018

Senet and global technology leader Laird today announced that the Laird Sentrius LoRaWAN gateway now comes pre-loaded with the Senet LoRa® Packet Forwarder software and provides native support for registration and operation on Senet's network. This out-of-the-box integration allows enterprise organizations to deploy LoRaWAN solutions more efficiently across a variety of markets and rapidly expand as new business opportunities arise.

Designed for secure and scalable Enterprise IoT (EIoT) deployments, the 8-channel Sentrius gateway supports LoRaWAN, dual-band Wi-Fi and wired Ethernet for multi-protocol flexibility. This flexibility expands the number of smart devices that can be connected to enterprise applications and delivers a highly optimized and economical approach to meeting the diversity of real-world EIoT use cases.

Laird and Senet are both members of the LoRa Alliance and will be participating at the 10th LoRa Alliance All Members Meeting and Open House in Vancouver, Canada from June 4-7, 2018. The companies will be hosting a LoRaWAN boot camp session on Thursday, June 7. In this hands-on session, attendees will walk through using both BLE and LoRaWAN to bridge sensor data (temperature, wind speed and direction) via Laird's RG1xx Gateway platform to Senet's Network-as-a-Service. All participants will receive a free Sentrius RM191 development kit.

"Senet's approach to IoT network deployment and operation brings unique value to companies like Laird by creating new customer engagement and gateway deployment models that are accelerating the adoption of low power, wide area connectivity," stated Jonathan Kaye, Senior Director, Product Management at Laird. "We are excited to be collaborating with Senet to combine the utility of the Sentrius gateway with the ease of use and flexibility of the Senet network for our customers."

"The Laird Sentrius is an outstanding addition to our portfolio of qualified LoRaWAN gateways as it delivers the critical features needed to support the demands and diversity of EIoT applications," said Bruce Chatterley, CEO & President at Senet. "We look forward to our ongoing collaboration with Laird to help organizations deploy LoRaWAN networks faster and more efficiently and are excited to be partnering with a like-minded company committed to simplifying IoT connectivity for enterprises around the globe."

Click here to return to Contents

T-Systems to offer SAP applications via Microsoft Azure

30 May 2018

T-Systems is now offering SAP applications on the Microsoft Cloud platform Azure as part of its wider strategic partnership with Microsft. T-Systems' offerings enable customers to integrate these SAP services with other Azure Cloud services as well as the Internet of Things. T-Systems said it will offer these SAP services worldwide, while a standardized operating system will enable customers to obtain SAP systems immediately through a self-service platform. T-Systems experts are also available to help customers with their implementation and transition to SAP services.

T-Systems will also present six digitisation packages covering topics like the transition to the new SAP S/4HANA Business Suite, next generation maintenance and IoT logistics at SAP's Sapphire Now + Asug Conference in June in Orlando, Florida. T-Systems will also host two lectures for companies interested in deploying SAP Hana.

Click here to return to Contents