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CIMdata News

CIMdata Publishes PLM Trends Market Report

20 June 2017

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces the release of the CIMdata PLM Industry Review and Trends Report, the second of five modules of the CIMdata 2017 Market Analysis Report Series. The MAR Series provides detailed information and in-depth analysis on the worldwide PLM market during 2016. It contains analyses of major trends and issues; revenues of leading PLM providers; and revenue analyses for geographical regions, industry sectors, and historical and projected data on market growth.

The 2017 PLM Industry Review and Trends Report focuses on “digitalization,” a process affecting a wide range of industries. Over the last several years, the information technology world has dramatically changed due to several strong influences including social, mobile, big data/analytics, and the cloud (SMAC). Some would add the Internet of Things (IoT) to this list. The next big thing seems to be digitalization, which leverages solutions addressing the SMAC and IoT trends to help companies fundamentally transform their businesses. According to a recent survey, top-performing businesses are currently spending 34% of their IT budget on digital transformation, with 44% planned in 2018. Product companies are participating in this trend toward digitalization.

In a way, the PLM Economy came to digitalization first. Digital tools were the beginnings of this economy, and today what Economy members do is essential for meeting broad-based digitalization objectives. Product companies want to mass customize their way to markets of one. They can’t get there (and make money) without strong data-related configuration management practices and solutions. Companies are looking to Configure-Price-Quote solutions to speed the bid- or order-to-delivery

CIMdata PLM Industry Summary

process, but again these potential adopters need the ability to configure products digitally and understand their costs so they can accurately price them. Many companies are talking about offering Products as a Service, which means living by the promises in service level agreements (SLAs). Ensuring that a company will make money from SLAs requires that they design to accurate costs and competitive prices and assess these early and often in the design process using simulation and analysis coupled with physical testing. Finally, those smart, connected products don't design, program, and connect themselves. Companies will need to add skills in electronics, software development, analytics, and other areas to reap the benefits of IoT.

This PLM Industry Review and Trends Report is the second of five modules of the CIMdata 2017 Market Analysis Report Series to be released. The MAR Series provides detailed information and in-depth analysis on the worldwide PLM market during calendar year 2016. It contains analyses of major trends and issues; revenues of leading PLM providers; and revenue analyses for geographical regions, industry sectors, and historical and projected data on market growth.

The CIMdata PLM Market Analysis Report Series is packaged as five modules:

1. The CIMdata 2017 Executive PLM Market Report provides an overview of CIMdata's complete global analysis. It includes key charts on PLM market investment statistics through 2016, forecasts of investments for 2017 through 2021, and a summary of PLM solution providers' performance in 2016.
2. The CIMdata 2017 PLM Industry Review and Trends Report is mainly qualitative in nature, and focuses on key issues facing the global PLM ecosystem of solution providers and end user organizations. It highlights changes that occurred in 2016, what effects those changes may have in the short and medium term, and what is on the horizon in the years to come.
3. The CIMdata 2017 PLM Market and Solution Provider Analysis Report details measures of and forecasts for the overall PLM market and its key segments, including Tools, cPDM, and Digital Manufacturing. The Tools section has additional details on sub-segments, including MCAD, NC, S&A, EDA, and AEC. It also includes CIMdata's estimates of PLM solution provider revenues in these segments and sub-segments for 2017 through 2021.
4. The CIMdata 2017 PLM Market Geographic Analysis Report provides an additional view of the 2016 market results, by major geography. CIMdata's 2016 estimates and market forecasts for PLM and the major PLM market segments are provided for the Americas, EMEA, and Asia-Pacific. In addition, the report includes estimates and forecasts for the cPDM segment within specific European and Asia-Pacific countries and regions.
5. The CIMdata 2017 PLM Market Industry Analysis Report provides an industry segmentation view of the 2016 market results. CIMdata's 2016 estimates and market forecasts for PLM and cPDM are provided for eight different industry sectors: aerospace and defense; automotive and other transportation; electronics/telecommunications; fabrication and assembly; process-packaged goods; process—petrochemical; utilities; and construction, infrastructure and shipbuilding.

The CIMdata PLM Market Analysis Report Series is available as a five-module set or each module can be purchased separately. It is also available as part of the CIMdata PLM Community Gold Membership. Further details and pricing information about the report and Community Memberships are available at www.cimdata.com.

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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 at www.CIMdata.com, follow us on Twitter: <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.

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CIMdata Publishes Updated “Tata Technologies PLM Analytics Maturity Assessment Program”

21 June 2017

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces a major update to the white paper describing Tata Technologies' new PLM Analytics Maturity Assessment Program.

Portions of Tata Technologies PLM Analytics were developed in cooperation of CIMdata. The result is a four-component PLM analytics analysis program designed to provide insight and guidance to customers about the maturity of PLM within their enterprise. This four-component approach (PLM Benchmark, PLM Health Check, PLM Impact, and PLM Roadmap) adds PLM Impact to the previous three components and enables a company to start with a quick, low-cost overview assessment that identifies issues and potential directional priorities for their PLM program. At each successive tier, they obtain more extensive knowledge about their current situation, leading ultimately to a detailed execution roadmap. PLM Impact allows companies to measure and unleash the impact of PLM's benefits. Using the results of the four-component PLM analytics program helps companies close their PLM value gap.

“Tata Technologies PLM Analytics Maturity Assessment Program” is available to be freely downloaded from CIMdata's [Publications web page](#).

About CIMdata

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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 at www.CIMdata.com, follow us on Twitter: <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.

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CIMdata's Vice President of Research, Stan Przybylinski, to be Featured in Webinar: How Cloud Platforms, Millennials, and Salesforce Redefine the Use of PLM

23 June 2017

This complimentary webinar, which takes place on June 29, will discuss how building PLM and other enterprise applications on cloud platforms enables tight integration and collaboration during the ideation and product development process.

To secure your seat for this webinar visit: <http://www.cimdata.com/en/events/plm-industry-events/event/327-how-cloud-platforms-millennials-and-salesforce-redefine-the-use-of-plm>

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Acquisitions

Altair has a Bold Vision for IoT Leadership in PLM: Acquires Highly Rated Carriots IoT Platform

20 June 2017

Altair has acquired Carriots S.L, an Internet of Things (IoT) technology company from Madrid, Spain founded in 2011. The company is the developer of Carriots®, a complete IoT application enablement platform (AEP) to rapidly connect and manage devices, collect and analyze data, and build intelligent applications together with enterprise business systems.

“Combining Altair’s software suites with Carriots’ solutions for the IoT will provide our customers with the complete stack of technology they need to create, simulate and manage their new connected products over complete lifecycles”, says Miguel Castillo founder of Carriots. “We are joining forces with a leader in product design and engineering, and as part of the Altair team we can now better help organizations capture the full value of IoT.”

The Carriots platform offers customers the freedom to choose their own hardware or infrastructure provider, tailor and build custom applications, integrate with third party solutions and corporate IT systems or on-board devices directly to Carriots as a turn-key Platform-as-a-Service offering. Carriots offers free trial access for customers to fully develop proof of concept IoT applications, which can be scaled to millions of devices with a commercial agreement. Key advantages of the Carriots platform are the speed of deployment and scalability for broad use cases ranging from smart cities, energy, and agriculture to consumer products and logistics.

James R. Scapa, Altair’s Founder, Chairman and CEO, notes that, “As connectivity and intelligence become part of almost everything with which we interact, performance optimization has evolved to be a continuous process throughout a product’s lifecycle. We are combining Altair and partner technologies

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with the Carriots platform to become a leader in IoT, including applications to support our customers' digital twin strategies.”

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Dassault Systèmes Acquires Majority Stake in Outscale

20 June 2017

Dassault Systèmes today announced that it has acquired a majority stake in Outscale, a global leader in enterprise-class cloud services, thereby strengthening its position as one of the fastest growing cloud companies in the world that is helping industry innovators to digitally transform their business. Financial terms were not disclosed.

Founded in France in 2010, Outscale is an ISO/IEC 27001:2013 security certified company that provides enterprise-class cloud computing infrastructure services (IaaS) to customers through its ten data centers in Europe, North America and Asia. Outscale cloud solutions are certified according to the highest industry standards: Cisco CMSP Advanced, 100 percent Intel Cloud Technology and NetApp AltaVault. The company developed its own secure cloud operating system, TINA OS, which orchestrates and automates cloud resources including calculations, storage and networks, thus helping organizations to easily deploy, manage and increase the availability of their cloud platform, including in the most complex environments.

Dassault Systèmes was an initial investor in Outscale and relies on its services to manage its cloud-based 3DEXPERIENCE platform and portfolio of industry solution experiences – the largest cloud offering for 3D design, simulation and digital manufacturing across 12 industries. With this investment, Dassault Systèmes is now able to adjust and control its cloud resources and services to manage peaks in activity, further diversify its industry segments, deploy new features, and provide advanced on premise, private and hybrid cloud solutions for its customers.

“This investment by Dassault Systèmes provides us with additional resources to support our technology innovation and global commercial development,” said Laurent Seror, CEO, Outscale. “It also affirms our role in helping them bring the unique value of Outscale’s cloud expertise to increase the business agility of 3DEXPERIENCE platform customers.”

“Outscale has demonstrated the success of its unique cloud architecture by offering enterprise-class cloud resources worldwide, with a data sovereignty compliance approach,” said Pascal Daloz, Executive Vice President, Brands and Corporate Development, Dassault Systèmes. “Now, we can bring greater value to our customers by fully leveraging this approach to expand our ability to make the 3DEXPERIENCE platform more affordable and accessible to a greater number of users, as well as extend it to new usages.”

For companies seeking to engage in product innovation across multiple sites for a flexible period of time, cloud computing eliminates the infrastructure and administration needs of a complex on premise environment and offers multiple advantages: instant deployment, elastic computing and storage resources, data security, continuous support, monitoring and operations, real-time collaboration with a single data source, and access anytime, anywhere.

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Warburg Pincus to Invest \$360 Million to Acquire Significant Minority Stake in Tata Technologies

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from Tata Motors and Tata Capital

15 June 2017

An affiliate of Warburg Pincus, a leading global private equity firm focused on growth investing, has committed to invest around US\$360 million for an approximate 43 percent equity stake in Tata Technologies, a global leader in engineering outsourcing and product development IT services. Warburg Pincus will purchase approximately 30 percent from Tata Motors and its subsidiary Sheba Properties, as well as the entire 13 percent stake held by Tata Capital (8.7 percent from Alpha TC Holdings Pte and 4.3 percent from Tata Capital Growth Fund I). Post the transaction, Tata Motors and affiliates of the Tata group will continue to retain a significant minority interest of approximately 43 percent in Tata Technologies, with the remaining ownership held by the management team and other shareholders.

Tata Technologies is a global engineering services and product development IT company, with more than 8,500 employees located in 23 countries. Tata Technologies helps the world to drive, fly, build and farm by enabling blue-chip automotive, aerospace and industrial machinery manufacturers realise better products. Leveraging its balanced onshore-offshore delivery model, Tata Technologies has recently delivered multiple fully outsourced vehicle programmes for automotive clients, a capability that is unique among India-based engineering services companies. Tata Technologies' services portfolio combines engineering, research and development (ER&D); product lifecycle management (PLM) and connected enterprise IT (CEIT) solutions.

“Tata Technologies has developed significant engineering capabilities over the years. The partial divestment is part of Tata Motors' plan to strategically monetise part of the value created while also inducting a valuable partner, together with whom the company can excel in its next phase of growth”, said C Ramakrishnan, group CFO, Tata Motors. Mr Ramakrishnan added, “We look forward to partnering with Warburg Pincus and achieving greater heights for the company and all its stakeholders”.

“Tata Technologies is widely acknowledged for its superior service offerings and its industry-leading engineering capabilities. The company has demonstrated the ability to scale accounts in a competitive industry by becoming embedded in the manufacturing and product development process of its customers. We are delighted to be partnering with the Tata group to support the continued growth and development of the company. We look forward to backing the strong management team at Tata Technologies, and leveraging Warburg Pincus's global network and prior experience in the engineering services space to help grow the business, organically and inorganically, and create value for all stakeholders,” said Vishal Mahadevia, managing director and co-head, Warburg Pincus India.

“This investment is a testament to our achievements to date and, more importantly, of our great potential moving forward,” said Warren Harris, Tata Technologies CEO and MD. “As the engineering services outsourcing (ESO) market has matured from cost arbitrage and staff augmentation to increasingly high-end, strategic work, Tata Technologies has been there leading the charge. With the perspective and insights that Warburg Pincus offers as a premier global private equity firm, we are confident we will not only continue moving up the value chain, but materially accelerate our growth journey,” Mr Harris further added.

“Tata Technologies has demonstrated, over the past six years of our investment, a high-quality engineering services solution appreciated by its marquee client base. The company has scaled as per our expectations and will deliver an industry-leading return profile for the Fund,” said Akhil Awasthi, managing partner, Tata Capital Growth Fund I.

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Company News

Andhra University Partners With TCS iON for Digital Transformation

20 June 2017

Tata Consultancy Services (TCS) today announced a definitive agreement with Andhra University to help transform the Andhra University School of Distance Education (AUSDE) into a digital university enabling easy access to a larger number of students wanting to avail courses offered by the prestigious institute. As part of the agreement, AUSDE will deploy the TCS iON Platform to help bring online all key services offered by the University School including student admissions, academic course content, examination management as well as regular administrative services.

With the services of AUSDE going online, students will be able to enroll onto and access courses of their choice, pay fees, get their examination hall tickets and also see their examination results, all of these, at a click of a button.

The TCS iON Platform provides a comprehensive end-to-end solution that enables a university to digitize all functions and services offered by it. The TCS iON Platform supports in building smarter university campuses with solutions that simplify learning, teaching and support processes to drive educational excellence. The iON Platform manages the Admission to Alumni life cycle of the student processes by providing a digital interface to the student.

Digitization of services offered by the university helps it reach out to a larger section of students at a lower cost without compromising on the quality of education imparted. The AUSDE is offering Certificate, Diploma, Under Graduation, Post-Graduation and professional courses to over 60,000 students currently and the digitization of the university will help provide a superior experience to all the stakeholders.

Commenting on the agreement, Mr. V. Ramaswamy, Global Head, TCS iON said, "In today's context, digitalization of any university is imperative to sustain excellence. We are extremely proud to be the partner of choice for Andhra University in their transformation journey. With AUSDE going digital using the TCS iON Platform, every stakeholder of the university will be able to engage with ease and be confident of getting the highest level of services on-time without any deficiency. Streamlining of the university's services will also ensure that the university can focus more on driving academic excellence amongst students without being distracted by regular administrative functions."

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ANSYS and Synopsys to Partner in Accelerating Robust Design Optimization for Next Generation High-Performance Computing, Mobile and Automotive Products

19 June 2017

ANSYS and Synopsys will enable customers to accelerate the next generation of high-performance computing, mobile and automotive products thanks to a new partnership that will tightly integrate ANSYS' power integrity and reliability signoff technologies with Synopsys' physical implementation solution for in-design usage.

Developers of innovative, cost-effective and reliable smart products need to quickly optimize, validate

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and signoff their designs. While designers have been using ANSYS and Synopsys tools in combination for years, the integrated solution will enable mutual customers to apply power integrity and reliability signoff technologies earlier in the design flow – empowering them to deliver innovative, high-performance and reliable products faster, while reducing power, area and cost.

The integration of ANSYS' industry-leading platform for chip power and reliability signoff, ANSYS® RedHawk™, with Synopsys' best-in-class place-and-route solutions, Synopsys IC Compiler™ II, will provide users earlier signoff accuracy within the Synopsys design environment. This integration will enable rapid design exploration, design weakness detection, optimization and thermal-aware reliability through increased functionality within the place-and-route environment. The in-design power integrity and reliability signoff-driven flow will eliminate late design changes and ensure consistency with final chip-package-system signoff analyses with RedHawk.

“This partnership is a continued step in Synopsys' strategy to bring more physical and signoff technologies earlier in the design flow within our Synopsys Digital Design Platform,” said Sassine Ghazi, senior vice president and co-general manager, Design Group at Synopsys. “Partnering with ANSYS enables Synopsys to quickly deliver a reliability and thermal-driven design flow that is critical for designing the next generation of semiconductors.”

Synopsys and ANSYS will also provide a feedback loop between the two-gold standard solutions, Synopsys PrimeTime® and ANSYS RedHawk. Voltage-aware timing analysis can be performed rapidly to avoid additional guard-banding and design margining.

“As the industry moves to more and more complex chips, signoff-driven rail analysis needs to be available sooner in the physical design flow just like timing and design rule checking,” said John Lee, general manager at ANSYS. “We believe partnering with Synopsys to bring our signoff technology into the Synopsys In-Design approach is the right way to accomplish this objective.”

“TSMC collaborates with our EDA partners on silicon design solutions to enable our customers to achieve competitive performance, power and area for their next generation electronic products,” said Suk Lee, TSMC senior director, Design Infrastructure Marketing Division. “This industry collaboration between Synopsys and ANSYS provides an opportunity for them to take the collaboration a step further by enabling reliability and thermal-driven physical design built on the industry's popular physical implementation and signoff solutions.”

“ARM has been a long-time user of both Synopsys and ANSYS technologies, which have helped in the development of some of the most sophisticated CPU cores available in the market,” said Hobson Bullman, vice president and general manager, TSG, ARM. “This announced partnership will enable our semiconductor partners to optimize our IP within their SoC designs earlier in the flow allowing more time to focus on reliable, robust and energy efficient designs.”

"Both Synopsys and ANSYS have been strong collaboration partners with MediaTek to manage increasing manufacturing complexity and to deliver designs on schedule while realizing aggressive performance, power and area goals," said SA Hwang, general manager of Design Technology, MediaTek. “We believe this new partnership between Synopsys and ANSYS will enable MediaTek engineers to accelerate their pace of innovation while achieving further power, performance and area optimizations.”

ANSYS and Synopsys will be featured at the Design Automation Conference in booth 647 and booth 147 respectively, from June 18-22 in Austin, Texas.

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Artificial Intelligence Leaders Generate Greater Shareholder Value, Finds New Report from Accenture Research

15 June 2017

New research released by Accenture reveals that companies with optimal artificial intelligence (AI) innovation strategies generate greater shareholder value. But less than one fifth of leading companies that leverage AI have achieved this performance in recent years. These companies have demonstrated high 'AIQ' by combining strong in-house innovation and external collaboration.

Accenture's report "Boost Your AIQ: Transforming into an AI Business," published in collaboration with the G20 Young Entrepreneurs' Alliance, assesses both the Fortune Global 100 and Accenture's list of Intelligent 100 pioneers in the development and application of AI technologies, for the period of 2010 to 2016. In order to measure their Artificial Intelligence Quotient (AIQ), the research analyzes the level of both their in-house capabilities and investments in AI as well as their commitment to partnering with outside partners.

The research finds that only 17 percent of companies fall into the high-performing "Collaborative Inventor" quadrant, while most (57 percent) are still seen as "Observers," with relatively low levels of either in-house innovation or external collaboration on AI. Collaborative inventors have seen their enterprise value (a measure based on their market capitalization, debt and cash positions) rise by an average of 4.2 percent since 2013, compared to 2.3 percent for the remainder of the sample. Accenture Research estimates that companies that can move from "Observer" status to "Collaborative Inventor" could see their firm's enterprise value increase by 90 percent, on average.

"Artificial intelligence is one of the most powerful technology innovations we have ever seen – transforming the way we work and live," said Paul Daugherty, chief technology and innovation officer, Accenture. "Many companies are ready to go beyond the experimental phase of AI, leveraging it to improve productivity and create entirely new revenue opportunities. To become a high performer, they will need to both develop their own technology, data and people capabilities as well as become deeply involved in the broader AI ecosystem."

Innovation Strategy to Leverage Artificial Intelligence

The research shows that companies must converge and integrate three main factors to achieve high AIQ:

- **Technology:** Not only do companies need to combine the constellation of sensors, deep-learning algorithms, natural language processing and other technologies – they must choose when to invest in proprietary applications. For example, a chat bot may improve efficiencies, but may not differentiate a brand as much as proprietary AI-based products and services.
- **Data:** AI requires vast volumes of data and securing that data is crucial to enable intelligent systems to learn and improve. Adding to the complexity, most data that is currently available to companies is unstructured or disparate. To overcome these challenges, companies must update their legacy systems to converge the data and embed AI at the intersection to create intelligent products and services.
- **People:** AI calls for a diverse range of expertise in different combinations – mathematics, data

CIMdata PLM Industry Summary

science, neuroscience, behavioral psychology, linguistics and other liberal arts – to both train and work with intelligent machines. At the same time, AI will have an impact on the jobs and roles of existing workers and many of the new skills do not yet exist in the market. The research suggests that companies must strike the right balance between reskilling the existing workforce and hiring external talent. This includes partnering with universities to create a talent pipeline – but also, with the emergence of the gig economy – creating a more flexible working environment to attract specialist freelancers.

“Success in AI cannot happen in isolation,” said Francis Hintermann, global managing director, Accenture Research. “Our analysis shows that creating AI innovations requires incumbents to open up their technology, data and talent to work with specialist startups and entrepreneurs. That requires them to transform their innovation strategies and organizational cultures.

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Autodesk Names Andrew Anagnost President and CEO

19 June 2017

Autodesk, Inc. today announced that its board of directors has appointed Andrew Anagnost, current interim co-chief executive officer and chief marketing officer, as the company's new president and CEO, effective immediately. He will also join Autodesk's board of directors.

"The board and I are delighted that Andrew will lead Autodesk into its next stage of growth," said Crawford W. Beveridge, chairman of the board of Autodesk. "Andrew has been instrumental in the development and execution of Autodesk's successful business model transition, and with his leadership, we are confident that our move to the cloud and subscription will continue to be successful."

Anagnost, who holds a PhD in Aeronautical Engineering and Computer Science from Stanford University, began his career at Lockheed Aeronautical Systems Company and as an NRC fellow at NASA Ames Research Center. After joining Autodesk in 1997, he held various technical and strategic roles.

He led engineering for Autodesk Inventor, the company's 3D model-based product design and engineering tool, growing revenue five-fold during his tenure. As senior vice president of business strategy and marketing, he led the company's successful transition to a subscription business model, and drove adoption of Autodesk's cloud technologies.

"This is an exciting time for Autodesk, and I am thrilled to be taking on the CEO role," said Anagnost. "Autodesk transformed the design industry by bringing CAD to the PC 35 years ago, and in the last 10 years became the clear technology leader. We were first to bring design to the cloud and mobile, and now we're bringing construction and manufacturing to the cloud as well. I can't wait to lead Autodesk into our next phase of growth, where we will combine business and product innovation to become an even more customer-focused company."

Anagnost's appointment follows the February 2017 resignation of the company's former president and CEO, Carl Bass, and a comprehensive search process conducted by the board over the last four months.

"I have worked closely with Andrew over the past 20 years, and I know he will be a great leader for Autodesk," said Bass, Autodesk board director. "His contributions and dedication to the company, our employees, and customers have been immeasurable. I look forward to working with him from my seat on the board and can't wait to see where he takes Autodesk in the future."

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Autodesk also announced that Amar Hanspal, senior vice president, chief product officer and interim co-CEO, has decided to leave the company. Anagnost commented, "I want to thank Amar for his many important contributions to Autodesk's culture and product line over his 30 years with the company. He is a great colleague and friend, and he will be missed."

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Cognizant to Launch Free New York City-Based IT Training Program to Create Employment Pipeline for In-Demand Technology Jobs

19 June 2017

Cognizant is providing a new, no-cost training program to help New Yorkers access career opportunities in the growing IT, digital, and tech sectors. Based in a newly established training center in the South Bronx, the program will deliver no-cost technology skills training and career development resources for as many as 650 New Yorkers over the next 18 months. Cognizant intends to hire as many as 350 of the training program's initial graduates for Cognizant's client sites throughout the five New York City boroughs. Cognizant currently employs more than 2,300 associates across New York State.

Cognizant is partnering with nationally-recognized training and development specialist Per Scholas to deliver the industry and job specific courses at the center. Empire State Development, New York's chief economic development agency, is supporting the \$6 million Cognizant program with \$2 million in performance-based tax credits through the Excelsior Jobs program. The ESD funding will support the recruitment and training of the students who will be able to apply for jobs at Cognizant and elsewhere in the industry.

"We're pleased to be working with Empire State Development to expand in New York City and increase the base of trained IT and digital technology professionals in the broader New York community," said Jim Lennox, Chief People Officer, Cognizant. "The U.S. needs more qualified IT talent and this partnership is just one example of how we continue to invest in our communities to train American workers for next generation digital opportunities."

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EDDR Software Joins the Electronic System Design Alliance

19 June 2017

EDDR Software is a software company specializing in Electronic Design Automation (EDA) solutions, and today becomes a member of the Electronic System Design Alliance (ESD Alliance), an international association of companies providing goods and services throughout the semiconductor design ecosystem.

"The ESD Alliance allows us to collaborate with others in the semiconductor industry to create better tools for customers," says Kevin Nesmith, EDDR Software's chief executive officer (CEO). "We look forward to participating in working groups to help determine the future direction of this market sector."

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Fred Johnson of Ortho Clinical Diagnostics Receives DFMA Supporter of the Year at the 2017 Boothroyd Dewhurst International Forum on DFMA®

21 June 2017

The “Distinguished DFMA Supporter of the Year” award, offered annually at the Boothroyd Dewhurst International Forum on Design for Manufacture and Assembly (DFMA®), was given this year to Fred Johnson, senior technical cost engineer at Ortho Clinical Diagnostics.

The 2017 Forum was held in Providence, RI, June 6-7, and is the foremost conference worldwide on DFMA methodologies and software for product simplification and early costing. This year’s theme, “Designing Difference,” served to highlight how DFMA-integrated teams distinguish their products and organizations through data-driven decisions and subsequent collaboration.

“Our DFMA Supporter of the Year award acknowledges people and teams that work together in exceptional ways to improve products and educate others in industry,” said John Gilligan, president of Boothroyd Dewhurst, Inc. “Fred Johnson and his colleagues moved quickly in the space of only 18 months to redesign and cost-out some 33 projects—identifying and capturing a potential 32.7 million dollars in lifetime savings. This is a remarkable achievement, particularly in that these are low-volume products where cost reduction steps are not amplified by high production counts.”

Further illustrating the power of teamwork and use of DFMA, Kohler Company engineers Bill Devenish, Ben Marotz, Stephanie Freier, Matthieu Da Rocha and Adam Guenther hosted a panel discussion at the Forum titled “The Bold Look of DFMA at Kohler.” The company has succeeded in establishing a strong implementation path across disciplines and product categories that enhances their existing Lean and new product development efforts. The Kohler team reported excellent cost and performance benchmarks.

Dell EMC, Raytheon and Dynisco also addressed DFMA integration across the disciplines of management, manufacturing, design, test and service, which are sometimes called Design for eXcellence (DFX). DFMA is complementary to DFX and they are often undertaken as a whole to ensure that requirements by all stakeholders in an organization are efficiently met.

Rounding out the Forum were presentations by Dymotek and the University of Dayton.

“Each year we encourage presentations on manufacturing processes that help companies reach their part-consolidation goals,” said Nick Dewhurst, executive vice president of Boothroyd Dewhurst, Inc. “Simplifying a product with multi-functional single parts is still the best way to lower costs and increase quality and profits.”

DFMA® is a registered trademark of Boothroyd Dewhurst, Inc.

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Hewlett Packard Enterprise Announces Promotion of Antonio Neri to President

21 June 2017

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Hewlett Packard Enterprise (HPE) today announced that it has promoted Antonio Neri to President effective immediately. Previously, Neri served as Executive Vice President and General Manager, Enterprise Group, responsible for the development and delivery of the IT infrastructure solutions at the core of the world's largest and fastest growing organizations, which includes servers, storage, networking, technology services, converged data center infrastructure, Telco and cloud solutions.

In addition to leading the company's four primary lines of business, in this new role Neri will oversee the company's efforts to streamline and optimize the go-forward company following the completion of the spin-mergers of its Enterprise Services and Software divisions. These efforts, which the company calls HPE Next, are focused on driving growth and profitability, and ensuring the company will be well positioned to win in the markets where it competes.

"Antonio is a veteran technology executive who has led some of the most important businesses and initiatives at HP during his 22 years with the company. From overseeing the reinvention of our Technology Services business and the divestiture of our H3C business in China, to the integration of critical acquisitions like Aruba, SGI, SimpliVity and Nimble, Antonio has been invaluable to me as we have worked to establish the new Hewlett Packard Enterprise," said Meg Whitman, chief executive officer of Hewlett Packard Enterprise. "His promotion reflects the importance of his contributions to the company as leader of the Enterprise Group, which represents more than 80 percent of the go-forward company's revenue."

Prior to HP's separation into two companies—Hewlett Packard Enterprise and HP Inc.—Antonio served as Senior Vice President and General Manager for HP Servers and HP Networking business units, responsible for setting the R&D agenda, bringing innovations to market, and go-to-market strategy execution. Prior to that role, he led the HP Technology Services business unit providing support and consulting services for HP's Enterprise products and solutions. Antonio joined HP in 1995, as a customer service engineer in HP's EMEA call center.

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IBM Advances Unified Governance, Data Science to Give Global Organizations Deeper Insights to Manage GDPR Readiness

22 June 2017

IBM today announced sweeping advances to its data governance and data science initiatives designed to help developers and analysts tap into the power of cognitive computing. Through new solutions and services, organizations will gain greater understanding and control of their data, while facilitating their ability to prepare for rising data regulations, like the European Union's General Data Protection Regulation (GDPR).

As part of the moves, IBM announced new data governance solutions and tools, data science and machine learning advances, and the formation of the Open Data Governance Consortium for Apache Atlas, dedicated to advancing the open framework for data governance.

As more developers harness data science and machine learning, they are able to create cognitive applications and services that lead to greater data visibility and deeper insights to make data-driven decisions. IDC predicts that by 2018, 75 percent of all developers will embed cognitive in their applications – but as data volumes explode, and data protection regulation mounts, the ability to effectively manage and exploit that data diminishes.

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For instance, on May 25, 2018, the European Union will put into effect GDPR, a continent-wide set of requirements designed to protect its citizens' personal information – any data “that can be used to directly or indirectly identify a person,” from a name to a post on social media. Organizations within or outside of Europe, that process or hold such personal data of EU citizens and fail to comply with GDPR could potentially face extremely stiff financial penalties that will range from four percent of the organization's annual global revenue to 20 million euros.

With such profound technical change so imminent, organizations across Europe, and around the world, are reviewing and considering an array of solutions and processes that can help them better handle personal data and meet the requirements.

IBM Spearheads the Launch of the Open Data Governance Consortium for Apache Atlas

At the heart of preparing for regulation, such as GDPR, is data governance, which provides diligent and comprehensive data management practices for data integrity, security, usability, and availability. To make this easier for organizations and drive widespread adoption of data governance, IBM today is announcing the Open Data Governance Consortium for Apache Atlas.

Atlas is the Apache Foundation's data governance framework for Hadoop, one of the leading open source frameworks for distributed data processing and storage. The project is currently in Apache's “incubator” phase of development. One of the goals of the consortium is to collaborate to quickly advance it to “Top Level Project” status, at which point the technology will be available for open development contributions, download and distribution – and making robust governance capabilities open and free to the public.

The Consortium comprises such international members as leading Hadoop distribution provider, Hortonworks, and a dozen other members.

The news of the Open Data Governance Consortium for Apache Atlas follows strategic partnership IBM announced last week with Hortonworks, maker of one of the leading distributions of Hadoop, the Hortonworks Data Platform (HDP).

IBM Unveils New Data Governance Solutions

Also, to further help clients meet their growing data protection compliance demands, IBM today is announcing the following new solutions for helping clients gain greater control of their data:

IBM Unified Governance Software Platform – a new software platform comprising data management capabilities, including many which may be mapped to the GDPR, such as cognitive metadata harvest, lineage tracking, policy enforcement, data integration services and persona-based reporting;

Information Governance Catalog Download & Go – a fast, new software download that lets clients download, install and run specific governance tools directly to their systems, quickly and easily. The software complements, the full, cloud-based version of the catalog.

StoredIQ – the popular data discovery software that helps users identify the types of unstructured data residing across their organizations, has been augmented with new analytics “cartridges,” or software modules, that people can download at no cost to begin recognizing sensitive, personal data, as well. Available for 15 European Union (EU) country-specific downloads, and their 11 languages, these cartridges are designed to help shorten the time it takes to discover personal data and better prepare for rising regulation, like GDPR.

Applying Data Science and Machine Learning to Governance

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Increasingly critical to data governance is the ability to analyze and distill troves of data for insights and compliance. IBM today expanded its data science and machine learning innovations across Europe, to give more global enterprises access to the tools needed to apply data intelligence as they prepare for regulatory compliance. These include:

The launch of the IBM Data Science Experience (DSX) in its London data center. Now, data scientists in the UK and across Europe are able to use the collaborative environment to easily and quickly team on analytic models that drive the creation of intelligent applications and generate data insights. Bringing DSX to the UK, will help organizations begin making more data-driven decisions, prepare for regional data regulation requirements, and provide more robust system performance.

The launch of the Machine Learning Hub in Boblingen, Germany. The Hub presents a unique opportunity for companies in the region to collaborate with IBM on machine learning efforts with hands-on workshops. While many companies offer educational resources on emerging technologies, the Machine Learning Hub puts theory into practice to identify solutions to data science challenges in machine learning. To date, Machine Learning Hub teams have workshopped a wide range of use cases, from patient diagnosis to fraud detection to customer segmentation.

“The potential of data science and big data can only be realized with a unified approach to governance,” said Michael Willette, Executive Director and Technical Fellow, Data and Analytics, at financial services company, USAA. “IBM’s strategy is a good approach to addressing compliance concerns while allowing our users to find and discover data for analysis and data driven decision-making.”

“From the sheer volume and the continued distribution of data across evermore complex network clusters, to the rising tide of data regulations, such as GDPR, the need to organize, analyze and govern that data grows more critical every day,” said Rob Thomas, General Manager, IBM Analytics. “With the governance moves we’re making today, we’re giving organizations more ways to begin to not only understand what they have, but leverage it to make better business decisions and prepare for compliance.”

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IBM Launches New Technology Stack to Simplify Development of Microservices

22 June 2017

IBM announced today it is expanding its portfolio of developer tools to make it easier for developers and organizations to create, deploy and manage apps built with microservices.

IBM’s new Microservice Builder highlights IBM’s focus on aligning its technology to simplify how developers manage their data and build applications. It gives developers the flexibility to deploy microservices on their on-premises systems or any cloud environment.

Microservices are gaining in popularity because they allow developers to work on multiple parts of an app simultaneously without disrupting operations. The new set of capabilities equips developers with an end-to-end solution so they can quickly create these services and better integrate common functions for faster app deployment.

Microservice Builder helps developers with each step of the development process from writing and testing code, to deploying and updating new features. It helps create and standardize common functions, such as runtimes, resiliency testing, configuration and security, so developers do not have to handle these tasks separately. Teams can also build with specific policies and protocols to ensure all services

work together as a complete solution.

For example, a retailer developing a new inventory management app could use Microservice Builder to create a microservice that connects into inventory data to monitor availability of products. A second microservice could be built for a user interface to access inventory information from mobile devices, and a third could be built to analyze shopping trends based on inventory movement. Microservice Builder could help ensure all microservices work together when deployed, regardless of which developer on the team created them.

Microservice Builder works in conjunction with existing tools available via IBM Cloud that further advance microservices development and deployment. It uses a Kubernetes-based container management platform to make it easier to deploy, run and manage applications in any public or hybrid cloud environment. Kubernetes is an open-source project hosted by the Cloud Native Computing Foundation. Microservice Builder also works with Istio, an open platform IBM built in conjunction with Google and Lyft to connect, manage and secure microservices. IBM plans to deepen the integration between Microservice Builder and Istio as the Istio fabric evolves.

“Microservice Builder gives developers the foundation they need to build applications using a full microservices-based architecture and the flexibility they want to deploy these applications where they make the most sense for their business,” said Denis Kennelly, general manager of IBM Hybrid Cloud. “Microservice Builder also takes advantage of other tools, such as Istio, that simplify the integration and management of microservices so development teams can spend more time updating apps with new features and less time manually configuring them.”

IBM’s Microservice Builder uses popular programming languages and protocols, including MicroProfile and Java EE programming models, Maven, Jenkins and Docker. Functions provided can include:

- The MicroProfile programming model, which extends the open standards of Java EE, to help ensure microservices work with each other and provide capabilities to rapidly develop code for microservices
- Integrated DevOps pipeline for automation of development life cycle and integrated log analytics and monitoring to help with problem diagnosis more easily
- Consistent security features through OpenID Connect and JSON Web Token
- Easy-to-use and production-ready runtime environment for cloud or on-premises systems through WebSphere Liberty

A variety of developer resources also are available online at IBM Developer Journeys. These “recipes” provide easy on-ramps for developers to get started with microservices, containers and more.

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Ncode Technologies Announces New Site Launch

19 June 2017

Ncode Technologies announced the launch of its completely redesigned website. The newly launched website is an enhanced and flawless version of the previous one, housing efficient navigation, excellent responsiveness, and robust functionality. It offers quick and hassle-free access to the company’s imperative details and features along with an impeccable user experience. The website lists the company’s services, work portfolio, overview, team details, business models, work culture, vision,

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mission, and testimonials from hundreds of satisfactory customers. The new website went live at 9th June 2017.

“We are very enthusiastic about the novel site launch, and it's clean and impressive layout that will offer customers with enhanced user experience. The rich and detailed information in our site would knowledge our clients, partners, investors, and media about our past, present, and future work prospects to better comprehend Ncode Technologies,” says the Founder and Technology Head of Ncode Technologies. “We believe that our new site will offer our users a highly informative and smooth experience at the same time cater our desire to expand our market presence across geographical boundaries.”

The new website of the company is designed as per the modern trends and is based on latest platforms and technologies, thereby offering existing and new customers with incomparable user experience and rich information about its services, products, and growth avenues. The company follows a flexible business model designed keeping in consideration the ever-evolving demands of the modern businesses. Their new website offers a detailed explanation of the company's systematic work approach, pricing policies, and strategies and practices.

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Siemens Provides University of South Carolina with Technology Grant Valued at \$628 Million

22 June 2017

Siemens and the University of South Carolina announced today an in-kind grant of Siemens hardware and software with a commercial value of \$628 million. As part of this grant, Siemens' product lifecycle management (PLM) software will be used in USC's College of Engineering and Computing, and in combination with Siemens automation and controls hardware in a digital factory innovation lab at USC's McNAIR Center for Aerospace Innovation and Research. By providing students with this hands-on experience on software and hardware across USC's engineering curriculum and in research programs, Siemens is helping USC further prepare a highly-skilled STEM workforce for the advanced manufacturing industry, including the aerospace industry, which has experienced an 11.4% employment growth rate in South Carolina since 2010.

“Today's announcement of a partnership between Siemens and USC advances our state's growing reputation as a top destination for manufacturing,” said South Carolina Gov. Henry McMaster. “By demonstrating that South Carolina is home to one of the most highly-skilled engineering and manufacturing workforces in the world, we can attract even more companies who have yet to discover what we all already know—that there is no better place to do business than in South Carolina.”

Through the in-kind investment, engineering students at USC will now have access to the same PLM software used by more than 140,000 companies throughout the global manufacturing industry – including 35 in South Carolina – to design, develop and manufacture some of the world's most sophisticated products in a variety of industries, including aerospace, automotive, medical devices, machinery, shipbuilding and high-tech electronics. They will also have access to Siemens automation and controls hardware, the same type of automation hardware found throughout industry globally, and used to maintain levels of productivity, efficiency, safety, security, flexibility and uptime. This academic partnership is expected to help students compete for jobs throughout the world, and aid in building a workforce equipped with the skills needed for the high tech jobs of tomorrow.

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“This partnership with Siemens will position USC among the top universities in the nation for advanced manufacturing education and research,” says USC President Harris Pastides. “We’re proud that our researchers and students at the College of Engineering and Computing, McNAIR aerospace center and the entire USC system, will play a role in discovering new manufacturing technologies and will be better prepared to take on the jobs of tomorrow in South Carolina and beyond.”

USC’s McNAIR Center, which offers aerospace education, research, outreach and economic engagement for the more than 500 aerospace-related companies in South Carolina, as well as the rest of the global aerospace industry, will use Siemens hardware and software for student research projects. According to the South Carolina Department of Commerce, the aerospace industry has experienced an 11.4% employment growth rate since 2010. Including the state’s four major military installations, more than 55,000 South Carolinians are employed in aerospace. In total, the aerospace industry has an annual economic impact of more than \$19 billion. The McNAIR Aerospace Center features robotics and machine handling, similar to the type of production line found in aerospace companies as well as a packaging or filling line, assembly line or press line. The new Innovation Lab will feature a host of Siemens hardware supporting three distinct areas. Those areas would include a picker robot for handling applications, a roller picker robot for pick and place applications and a general purpose robot controlled by a Siemens Programmable Logic Controller (PLC).

“In this new era, manufacturers no longer want to just keep up. They are driven to be the trend-setters by being first to market and initiating innovation,” says Raj Batra, President, Siemens Digital Factory Division, U.S. “Few industrial segments have embraced digitalization and technology more than the aerospace sector. Aerospace companies throughout South Carolina are heavily reliant on automation and digitalization as well as well-trained employees. Our partnership with the University of South Carolina will provide valuable experiential training with both software and hardware, providing the next generation workforce with the skills they need to be successful. Siemens is proud to help close the skills gap in South Carolina through partnerships with leading edge academic institutions.”

As software plays an increasing role in the next era of manufacturing, this PLM software grant is designed to help students realize their ideas by providing accurate information as the product moves from design to prototype through a streamlined manufacturing process that provides instant feedback and allows product developers to make adjustments. The software will be incorporated across the engineering curriculum in both the undergraduate and graduate programs at USC, as well as being used for senior capstone projects.

With nearly 500 employees in South Carolina, Siemens has an extensive footprint spanning energy management, building technologies, power & gas, healthcare, and digital factory in the state. The company employs approximately 30 U.S. military veterans in the state and approximately 3,000 U.S. military veterans nationwide. Since 2011, Siemens has hired over 2,500 veterans. In March 2017, Siemens committed to hiring a minimum of 300 U.S. military veterans per year for the next three years, providing them with additional skills training to make them successful at performing roles at Siemens’ various U.S. facilities.

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Taking Circular Economy to the Next Level

15 June 2017

In recent years a growing number of businesses, governments, and environmental advocates have

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embraced the concept of a "circular economy," which aims to achieve greater sustainability by keeping more resources and materials in use for as long as possible -- through strategies such as increased product durability, reuse, and recycling.

Adopted by such businesses as Google, Unilever, and Renault, as well as by the European Union and China, this framework has become an important element of environmental policy and management worldwide and spawned a growing consulting industry.

But in a new special issue of Yale's *Journal of Industrial Ecology*, leading researchers make the case that it is time to take the discussion and analysis to the next level.

With the concept gaining traction globally, five experts write in the lead editorial, there is a growing urgency for shared understandings, a common language, and hard examinations of the complexities and opportunities in the circular economy.

Such discussions, they write, must tackle three fundamental aspects of the circular economy: 1. the challenge of increasing the scale of circularity efforts beyond individual initiatives; 2. the magnitude of potential environmental benefits and impacts in the context of material flows, resource use, and product design; and 3. opportunities for innovative business models, institutional change, and informed policy action.

"As the circular economy gains worldwide attention and as implementation spreads, challenges and tradeoffs are emerging," said Reid Lifset, editor-in-chief of the *Journal of Industrial Ecology* and co-author of the editorial. "Industrial ecology is well-placed to provide insight and guidance on the environmental and resource implications of this emerging framework."

Highlights of the 25-article issue include:

- A provocative examination of whether circular economy activities might promote more production, and thus trigger a "circular economy rebound"
- Assessments of the challenges to circular strategies posed by hazardous materials, including arsenic in treated wood
- Estimates of the current level of circularity in the economy and of the feasibility of running the economy on recycled materials
- A description of why it is critical to address social and institutional forces when promoting circularity
- Product design methods and challenges in a circular economy
- A proposal for circular economy metrics for products
- A rigorous study of how much recycled material actually goes to industry
- Challenges and potential for recovering tantalum -- a conflict resource -- from e-waste

"The effort to close loops and to increase resource efficiency is a key element in the pursuit of sustainability," said Indy Burke, dean of the Yale School of Forestry & Environmental Studies. "This special issue of the *Journal of Industrial Ecology* brings the technical prowess of industrial ecology to the understanding of the environmental and resource dimensions of our production and consumption systems."

The *Journal of Industrial Ecology* is a peer-reviewed international scientific journal owned by Yale

University, headquartered at the Center for Industrial Ecology of the Yale School of Forestry & Environmental Studies, and published by Wiley.

Articles in the special issue are freely downloadable for a limited time.

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Toshiba Tec Demonstrates Sustainable Business Excellence by Achieving Product Life Cycle Assessment Verification from BSI

22 June 2017

Toshiba Tec Corporation announced today that BSI (British Standards Institution) in Japan, the business standards company, has verified Toshiba Tec's new eco-friendly multi-functional peripheral (MFP) the e-STUDIO3508LP, e-STUDIO4508LP, e-STUDIO5008LP, and the paper reusing device e-STUDIO RD301 meets the stringent requirements of the Life Cycle Assessment (LCA) standards ISO 14040 and ISO 14044.

The e-STUDIO3508LP, e-STUDIO4508LP, and e-STUDIO5008LP are Toshiba Tec's unique and eco-conscious product which prints regular black prints as well as erasable blue prints within one device. These products will reduce environmental burden such as CO2 emission from paper production by erasing the erasable blue prints and reusing the paper hence reducing the paper consumption. BSI - the third party organizations verification ensured that Toshiba Tec's calculation method of LCA for its eco-friendly MFP is based on ISO 14040 and ISO 14044 which provides a robust framework for assessing the environmental impact of a product or service from the time of production through to product disposal. The verification process reviewed the LCA calculation method of these new MFPs for a five year period and compared it with that of Toshiba Tec's regular MFP. From this calculation method, printing the paper in erasable blue five times and erasing them to reuse will reduce the CO2 emission by 57% compared to that of five black prints.*

Toshiba Tec strives to be one of the world's leading eco-conscious companies based on the company's Three Greens philosophy: Greening of Products, Greening of Process, and Green Management. Complying with rigorous verification standards is demonstration of Toshiba Tec's commitment to sustainable business improvement. By verifying its products to ISO 14040 and ISO 14044, Toshiba Tec is taking major steps towards addressing the environmental aspects and potential impacts throughout a product's life - from initial raw material acquisition through to final disposal.

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VOQUZ and Tech Mahindra Announce Reseller Agreement in Brazil

22 June 2017

The VOQUZ Group, a German system integrator and provider of software asset management solutions for SAP, today announces a new reseller partnership with Tech Mahindra Brazil. As part of the agreement, Tech Mahindra will be reselling VOQUZ' flagship product samQ throughout Brazil. samQ is a SAM tool (software asset management) for managing and optimizing SAP licenses across multiple systems. The add-on allows an automatic allocation of SAP user licenses based on a user's actual behavior. This way, companies gain overall transparency of their license distribution across all connected SAP systems. In addition, samQ is a cost-efficient and time-saving tool to detect indirect usage of SAP data.

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“We are very excited to announce this partnership. Tech Mahindra is a very strong partner in Brazil, who is an expert for SAP services and business solutions,” says Sebastian Schoofs, Executive Director at VOQUZ. “Partnering with Tech Mahindra is a great opportunity to help even more SAP user companies to optimize their SAP licensing and cut down costs on overspending.”

“The partnership with VOQUZ and its tool samQ will provide our customers with a differentiated service and add value to our offerings and open the possibility of bringing new brands to the list of customers of Tech Mahindra,” says Alexandre Castro, affirmed Head of Pre Sales.

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YES Bank Partners with IBM, SAP For Digital Transformation

19 June 2017

Yes Bank hosted an exclusive Digital Roundtable today in collaboration with Innovation partners, SAP and IBM, as part of its continued focus on developing the digital banking ecosystem in India through collaborations and joint initiatives. Through this collaboration, the bank envisages making a significant impact in digitizing the financial supply chain of its clients.

Yes Bank has been playing the role of a ‘Digital Evangelist’ using technology and innovation to offer a superior banking experience to its customers. In continuation of this philosophy, the bank is creating revolutionary industry solutions towards digitally transforming clients through co-creation using design thinking.

Through this roundtable, Yes Bank engaged with key finance and business leaders on digitizing the financial supply chain, presenting how API Banking can create a unique value proposition for customers, mitigate risks, enhance business productivity and help businesses garner more from their own IT/ERP infrastructure. Yes Bank is the first bank in India to digitize the B2B supply chain with the launch of API banking services.

The discussions with the CIOs and CFOs along with Corporates at the roundtable helped the bank in identifying pain-points and gaps from the participants in financial supply chain. Yes Bank in collaboration with Fintech startups will now come up with innovative, customized solutions through the bank’s Fintech Accelerator program (Yes FINTECH) to address these gaps. As part of YES FINTECH, the bank has partnered with some of the best Fintech firms to deliver unique, innovative banking and financial solutions to customers. Currently Yes Bank has over 100 such partners. The bank is looking at organizing such roundtables in key regions across the country.

Commenting on the collaboration, Rana Kapoor, Managing Director and CEO, Yes Bank, said, “Through this Design thinking workshop, YES BANK with SAP and IBM is assisting our Corporate clientele to digitally transform and leverage the power of Banking from their IT and ERP systems. YES BANK has also been actively collaborating with Fintech startups through our A.R.T. (Alliances, Relationships and Technology) model, which we will leverage to provide innovative and customized solutions to Corporates. We realize that in today’s rapidly evolving digital landscape, it is critical for Corporates to use Banking and technology as strategic enablers by transforming the financial supply chain of their businesses.”

‘Today’s API-powered digital ecosystem presents an unparalleled opportunity for banks to co-create innovative solutions and new business models along with their ecosystem partners. IBM is excited to collaborate with YES BANK, powering the underlying technology that facilitates the delivery of an

agile, secure and best-in-class open banking API infrastructure,” said Karan Bajwa, Managing Director, IBM India.

The sectors in focus were Automobiles & Auto Ancillaries, Manufacturing, Financial Services, FMCG & Retail Services, Healthcare & Education, Hospitality, Media & Entertainment, Pharmaceuticals & Chemicals, Power, Infra & Logistics, Technology & ITeS and Travel & Tourism.

Since inception, Yes Bank has been focusing on digitization and is investing significantly on new-age mediums and digital technologies to achieve a heightened customer engagement and experience through the ART approach to Digital Banking - Alliances, Relationships and Technologies. The ART approach allows Yes Bank to offer Banking as a platform and Banking as a Solution, thereby not only serving retail customers but also allowing Corporates and Startups to use the Bank’s expertise to create differentiated path-breaking solutions.

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Events News

Announcing the Converge 2017 Series: Pushing the Boundaries of Design & Technology

21 June 2017

The solidThinking Converge conference series returns this year to once again host industrial designers, design engineers, architects, and other thought leaders active in product creation from around the globe. Converge 2017 will continue to explore the middle ground shared by design and technology, fueled by new software, creativity, materials, and cutting-edge manufacturing technologies that are changing the way product creators create. The four global events will bring together forward-thinking product designers and experience creators who pride themselves on existing in front of the curve.

“Altair’s focus on bringing together multiple disciplines of engineering and the creative process helps foster creativity and innovation in the design and development of our customers’ products,” said James R. Scapa, Altair’s Founder, Chairman and CEO. “I encourage you to attend our global Converge conferences this year. We are committed to spotlighting product and experience creators of depth and diversity. From entertainment to transportation, architecture, fashion, consumer electronics and beyond. These are the people working on tomorrow’s breakthrough advancements and discoveries, it doesn’t get much more exciting than that.”

Registration is now open for the first event in 2017. Other locations will open registration soon:

Los Angeles, California, USA: September 13, 2017

Essen, Germany: October 17, 2017

China: November 2017

Tokyo, Japan: November 22, 2017

In 2016, six countries worldwide hosted Converge, each with an impressive keynote speaker lineup. Presentations included Head of Design for Fiat Chrysler Automobiles Ralph Gilles’ vision for the future of transportation design. Janine Benyus, Co-Founder of Biomimicry 3.8, brought us hope through calculations, demonstrating how optimization technology has saved the equivalent of 280 Sequoia National Forests since 2000. Making a difference with design at Philips, Arjen Benders and Jens Andersson presented the OneBlade, their new device for facial hair removal. Sathiya Seelan, Head of Styling (product Design) at Ashok Leyland, flagship of Hinduja Group (India's largest bus

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manufacturer) led a hands-on design session and discussed the “Sunshine” project. Lead System Engineer of Legacy Effects Jason Lopes’ discussed his exploration of 3D printing and design in the film industry, Salomé Galjaard from Arup discussed design processes for structural elements printed in metal, and many more.

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ESI Presents at the Paris Air Show 2017 its Software Solutions Supporting Industry 4.0

15 June 2017

ESI Group announces its presence at the International Paris Air Show from June 19 to 25, 2017 in Le Bourget, France. Powering the fully virtual development of future products, ESI’s technology is at the heart of the Industry 4.0 megatrend. ESI offers disruptive Virtual Prototyping solutions to assure the delivery and manufacture of innovative products in less time and at less cost, and to predict the performance of existing products thanks to the use of data they generate in operations. During the Air Show, ESI will hold booth A166 in Hall 4, where visitors will discover ESI’s solutions portfolio and experience ESI’s Virtual Reality solution IC.IDO using Head-Mounted Displays (HMDs). Customer Safran will also offer live demonstrations of ESI IC.IDO using a large scale powerwall system on booth 228-252 in Hall 2A. On June 21, 2017, Dr Alain de Rouvray, co-founder, Chairman and CEO of ESI Group, will deliver a keynote on ESI’s strategic vision.

ESI’s Virtual Manufacturing solutions enable the creation of digital models that represent precisely the various physics involved in most common manufacturing processes for thermoset, ceramic and thermoplastic composite materials, as well as for most high performance aerospace metallic materials.

Using ESI solutions, industrial manufacturers can avoid manufacturing defects and improve part quality, without the need for building and testing physical prototypes. This year at Le Bourget, ESI will showcase its solutions for Additive Manufacturing, an innovative process that brings great potential for producing highly complex aeronautical parts with total freedom of shape but challenging in the context of the need for certification and compliance with the stringent regulations of the aeronautic industry. As technological leader in the field of Additive Manufacturing, ESI has joined the project Aerospace Factory for Additive Manufacturing led by Airbus and German industrials, and takes part in many key research projects such as AMANDE, PALOMA and SOFIA, the last being initiated by the Fives Michelin Additive Solutions joint-venture.

ESI’s Virtual Prototyping solutions support industrial manufacturers in their product development, from product inception all the way to pre-certification. During the International Paris Air Show, ESI will present Virtual Seat Solution, its software solution dedicated to seat design, manufacturing and performance that takes into account the physical behavior of materials. The software has helped the talented French start-up Expliseat gain certification for their revolutionary Titanium aircraft seat; the lightest seat ever certified by the European Aviation Safety Agency (EASA).

Also at Le Bourget, ESI will showcase its industrial grade Virtual Reality (VR) solution: several live demonstrations of ESI IC.IDO are scheduled on ESI’s booth (Hall 4/ A166), where visitors will experience IC.IDO using Head-Mounted Displays (HMDs). Other demonstrations will be held on the booth of customer Safran (Hall 2A/ booth 228-252), where a process review of Safran Nacelles for the A320neo LEAP-1A nacelle and the assembly line of the A330neo Trent 7000 nacelle will be in view, using a larger scale powerwall system. IC.IDO revolutionizes engineering processes by offering an immersive, interactive and collaborative solution that enables users to experience products in real-time

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and real-scale before any prototype even exists. Philippe JAMES, Vice President Continuous Improvement and Risks at Safran Nacelles, comments: “IC.IDO is profoundly changing the way Safran Nacelles employees work. Without waiting for physical prototypes, Virtual Reality allows to validate, early in development, design, tooling as well as ergonomic aspects but also to efficiently train operators. It is a powerful solution to promote live team discussion to reach design and tooling right first time.”

ESI will also present its latest solutions addressing the operational performance of products in real-life, powered by the spectacular progress of Artificial Intelligence, in combination with Machine Learning, Deep Learning, Cloud technologies, and the Internet of Things. Dr Alain de Rouvray, co-founder, Chairman and CEO of ESI Group, will deliver a presentation on June 21, 2017, highlighting the fundamental ‘disruptive’ transformations that move ESI’s offering from Computer-Aided Engineering (CAE) to Immersive Virtual Engineering (IVE). He will expose how IVE empowers organizations to collaboratively innovate around a visually augmented digital representation of the product reflecting its real-life operating performance, in its expected operational environment, leading to a shift from traditional Product Lifecycle Management (PLM) to “Product Performance Lifecycle”™ (PPL), using ESI’s Hybrid Twin™ approach.

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Five Industry Leaders Take on Multiphysics Simulation: Keynotes Announced for COMSOL Conference 2017 Boston

20 June 2017

COMSOL is pleased to announce this year’s keynote speakers at the COMSOL Conference 2017. The event, held in seven major cities, kicks off in Boston on October 4-6 and features the following experts in multiphysics modeling and simulation apps:

Andrew Prudil - Research Scientist - Canadian Nuclear Labs

Pablo Rolandi - Director of Process Development - Amgen

Richard Little - Chief Transducer Engineer - Sonos

Stuart Brown - Managing Partner - Veryst Engineering

Vasudevan Venkateshwaran - Research Scientist - W. L. Gore and Associates

Conference Highlights

The COMSOL Conference brings together thousands of engineers, researchers, and scientists from around the world to discuss and exchange best practices around the use of mathematical modeling and numerical simulation. The event features many parallel sessions on structural mechanics, acoustics, electromagnetics, fluid flow, heat transfer, and chemical reactions. Program highlights include:

- Talks by industry experts on multiphysics simulation
- Hundreds of papers and poster presentations
- Minicourses on modeling, simulation, application design and deployment
- Demo stations that offer one-on-one meetings with application engineers
- Exhibit showcasing products and services available to users of the COMSOL Multiphysics® software

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For more information about the COMSOL Conference 2017 Boston, visit:

<https://www.comsol.com/conference/boston>

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Innovation Leaders Gather to Collaborate on Enterprise Agility, Strategic Planning and Portfolio Governance

20 June 2017

Sopheon today shared the outcome of its annual America's Accolade® User Forum.

Sopheon's annual User Forum was attended by a rich mix of companies spanning a range of industries who came together to share their individual innovation journeys, challenges and aspirations. Some are long-time loyal Sopheon clients of 12 years and longer; others joined the Accolade community as recently as this year. Attendance figures show a 100% increase in the number of client companies represented compared to last year.

Highlights shared:

- Developing business agility is not about applying Agile software development methodology. Rather it hinges on the capability to adjust, pivot and respond quickly to new opportunities for competitive advantage and speed to market.
- There is a marked shift in the focus on using portfolio management to support forward-looking decisions as opposed to the historical focus of reviewing past performance and status.
- A \$19 billion industrial manufacturer shared their use of Accolade for Roadmapping to provide visibility and management of their technologies with a 15 year view into the future.
- One global consumer goods leader shared their use of Accolade software to manage 16,000 product development projects, while another in the same industry manages over 50,000 enterprise-wide corporate initiatives.

The two-day event included a keynote presentation by Andy Michuda, Sopheon CEO, who shared Sopheon's view on the impact of current market trends on innovation models and capabilities, as well as a number of high-level capabilities that will be delivered in upcoming Accolade product releases. The agenda focused on customer experience sharing and best practices, with extensive discussion and Q&A sessions.

"Every user forum we host gets richer with content," said Mr. Michuda. "This year the audience was especially open and willing to share their experiences. I expect many will have created new professional relationships that will deliver reciprocal support for their go-forward ambitions, both professional and personal. It is truly rewarding to bring this unique and experienced peer group together, and watch them share their knowledge, experiences, challenges and learnings. After all, Sopheon simply facilitates these sessions, which are designed to provide a platform for our customers to learn from one other."

A survey of attendees identified the following valuable experiences from the event:

1. Productive time engaging in candid, collaborative discussion on operational topics with other industry leaders who have a common goal to improve innovation performance.
2. Seeing a preview of Sopheon's upcoming Accolade 11.2 release and forward-looking roadmap, which provided good input for internal planning and alignment.

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3. Shared client case studies were informative, providing new insights and exposing applied learnings.
4. A good balance of new and long-time users provided an interesting and helpful perspective on best practices for maximizing the value of both the Accolade software and innovation processes.

“One of the benefits of becoming a Sopheon client is the access to a rich network of experienced innovation thought leaders who are grounded in real operational activities and who are pushing their company forward. As many of us face common company challenges, it is extremely beneficial to learn how others are dealing with them. It is especially insightful to hear Sopheon’s views and how well they connect with the direction we are headed. It is a good validation of our process and of our selection of Sopheon as our vendor of choice. It’s excellent when we have common views of the future.” - Supplier to the semiconductor industry

“These events are great networking opportunities; they are an excellent venue to hear and talk with users and Sopheon about how the system is used, can be used, or will be used in the future. I am looking forward to implementing some of the ideas I saw into our system.” - Ingredients manufacturer

“As a newbie to Sopheon I found the session stimulating and very applicable as we roll out Accolade. I picked up many tips and best practices in addition to developing new relationships with professional peers who I would not hesitate to reach out to for ongoing support.” - Food manufacturer

Planning is underway for Sopheon’s EMEA user forum, which is scheduled for November.

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Visual Next to Participate in PI Apparel Conference

21 June 2017

Visual Next has announced its sponsorship and participation for the third time at the Product Innovation (PI) Apparel conference, related to fashion, apparel, and footwear industry, to be held in New York City, on June 22 and 23, 2017.

The event is a gathering of retail, apparel, and footwear industry professionals to discuss and promote innovation within the industry. Topics for this year includes emerging technologies such as smart fabrics and wearables as well as fit data capturing tools.

Although a wide range of topics will be examined during the conference, discussions concerning the intersection between PLM and the changing retail environment will be given extra attention. Virtual sampling and inventory excess prevention, for instance, are being promised by PLM providers as ways to decrease the overall cost and time required for the development of a new product line.

Special focus will also be given to the importance of proper collaborative tools and processes within PLM systems: a domain where Visual PLM has excelled for years.

VP of research & development, Charles Benoualid said, “PI Apparel showcases the latest advancements in fashion technology and processes. As a supplier of apparel-focused omni- channel business software, we’re excited to both share and discover the ways in which the latest technologies will disrupt the current retail landscape.”

Benoualid said, “Visual Next is always proud to participate at these events. Not only do we get to meet and engage with some of the top global brands and businesses today, but they are able to receive a tour and test the features of Visual PLM and Visual End2End software during the conference. It is always exciting when businesses can witness first-hand how these systems can improve and optimise their own business processes.”

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Financial News

Infor to Hold Investor Conference Call to Discuss Q4 Fiscal Year 2017 Results on Friday, June 23, 2017

20 June 2017

[Infor](#) today announced that it will host an investor conference call to discuss Q4 fiscal year 2017 results for current holders of Infor securities and other interested parties on Friday, June 23, at 11 a.m. Eastern time. Materials and dial-in details will be available at <http://www.infor.com/company/infor-investors-relations/> after 9 a.m. Eastern time on Friday, June 23.

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Implementation Investments

Bamboo Rose Inks Deal with Action NL to Provide PLM, Sourcing Platform

22 June 2017

Bamboo Rose has signed Netherlands-based Action as a customer on its Bamboo Rose product lifecycle management (PLM) and sourcing platform. Action is a rapidly growing international non-food discounter with nearly 35,000 employees and more than 900 stores in Netherlands, Belgium, Germany, France, Luxembourg and Austria.

“We were impressed with the Bamboo Rose team’s retail expertise and their very different approach to PLM and sourcing, which focuses on speed and digital and is in the cloud,” said Simon Hathway, buying & merchandising director at Action. “The Bamboo Rose platform will support our continued international growth and effectively support sourcing surprising products at the lowest prices.”

Action chose Bamboo Rose for its PLM and sourcing solution to speed time to market, reduce manual workload and operations costs and provide the data integrity and visibility needed for its global sourcing operation.

“We’re hyperfocused on helping retailers shorten the product development timeframe, and one important component of that process is digital sourcing,” said Jonathan Baron, president, Bamboo Rose. “By going digital, retailers can cut extra cost and time out of the sourcing phase while gathering critical feedback from the supply chain – all without compromising product quality.”

Action is the latest customer to join Bamboo Rose’s significant value retailing and grocery portfolio, which also includes brands like Auchan, Woolworths, Shoprite and Family Dollar.

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Centric Teams Up with German Backpack Pioneer, Deuter

22 June 2017

Deuter Sport GmbH has selected Centric Software to provide its product lifecycle management (PLM) solution. Deuter was founded in 1898 and began by supplying mailbags and post sacks to the Bavarian Royal Mail. Over the years, the company evolved into a renowned provider of backpacks and sleeping bags for outdoor adventurers, hikers, cyclists and mountaineers, as well as specially designed backpacks for schoolchildren. Deuter is now part of the Schwan-STABILO Group and has its headquarters in Bavaria, as well as a US outpost in Longmont, Colorado. Deuter sells products in 54 countries across five continents.

As Marco Hühn, Quality Manager at Deuter explains, the company has reached a point where they are producing a large number of separate products (over 600 different designs) and the complexity of the products is increasing. Working mainly in Adobe and Excel, Deuter found that data and knowledge was not always available to the people who needed it.

“We currently have 115 people working here in Germany and 24 in the US,” says Hühn. “Our company grew a lot in the past five years and the number of products is also growing. In addition to our 600 products, we have private label business which involves adapting designs from our main collections. The items we produce are becoming more complex because of the rate of technical development in recent years and it is getting more difficult to transport and store information about products in a way that is accessible to everyone. That’s why we decided we needed a form of data management and handling for our products, which led us to research PLM systems.”

“When looking for a suitable PLM system, our main business aims were to stay innovative, keep a high level of quality, maintain a well-balanced production schedule even with more complex and ambitious products, develop partners with sustainable and modern production methods and create transparency throughout the supply chain. Our products are at the heart of Deuter, so the efficient handling of data about them is crucial.”

Deuter began researching PLM solutions more than two years ago. After a period of researching several different systems, attending trade shows, and talking to a current Centric customer, Deuter invited providers to a selection process and eventually chose Centric’s PLM solution.

Hühn says, “We came to the conclusion that we needed a system that could effectively store data, make data available to everyone and make the process of development and design more transparent and not dependent on a small number of people. We thought Centric had the best solution. It is very efficient in handling data and very user-friendly. Centric is quite a modern system so it has not got a ‘development backpack’, a heavy load from old versions, which slows down the flexibility of other systems.”

“Centric’s system is easy to configure and maintain and it handles intuitively. Centric also has great knowledge and understanding of the processes and needs specific to companies that handle textiles. It’s a very flexible solution that we expect will be adaptable to upcoming challenges. Another interesting benefit is that Centric’s future innovations, even when developed with other brands, will be brought into the system for all users to benefit from.”

As Hühn says, “By carefully examining our current processes, we expect to optimize and speed up the different steps of product development. We believe that efficiency will be much higher, especially in special makeups which are adapted from the main collection. The transparency will be much better and knowledge will be more available to everyone, not just the individuals who work with specific products.

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One of the main reasons we decided to use a PLM system was to avoid knowledge loss when someone leaves the company or is not available.”

“So far we have found Centric to be professional, knowledgeable and supportive, and we are looking forward to working with them further.”

“We would like to extend a warm welcome to Deuter, our latest European customer,” says Chris Groves, President and CEO of Centric Software. “Deuter has a renowned heritage as a producer of quality backpacks, sleeping bags and other durable goods to suit the demands of extreme outdoor conditions. We look forward to beginning a new adventure with Deuter this year.”

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LinQuest Corporation Awarded OASIS STS-2 METIS Contract

19 June 2017

LinQuest Corporation is proud to announce that the Air Force Space and Missile Systems Center (SMC) at Los Angeles Air Force Base in El Segundo, CA has recently awarded the One Acquisition Solution for Integrated Services (OASIS) Management Operations, Enterprise Architecting, Test and Validation, Integration, and Systems Engineering (METIS) contract to LinQuest Corporation. For this procurement, LinQuest teamed with A2 Systems Engineering, AT&T Government Solutions, Inc., Booz Allen Hamilton (BAH), ExoAnalytic Solutions, Integrity Applications Incorporated (IAI), Jackson and Tull, and Science Applications International Corporation (SAIC). The LinQuest Team provides SETA support to the Advanced Systems and Development Directorate (SMC/AD) and assists with a wide range of responsibilities including: future requirements; development planning; architecting; science and technology; investment planning; advanced hypersonics; mission planning; mission management; the space test program; the rocket systems launch program; the multi-mission satellite operations center; and planning, programming, budgeting, and execution support at the Pentagon.

“The win of the METIS contract confirms our team’s capabilities and validates the government’s confidence in our abilities to perform the broad spectrum of tasks that are necessary to assist SMC/AD in shaping the future of Space and in being the premier center for advanced systems and developmental planning,” said Christopher Beres, Vice President of LinQuest’s Space Systems Engineering and Integration business group.

Dr. Leon Biederman, LinQuest’s President and CEO, stated, “The AD/METIS contract places LinQuest and its teammates in a position of thought leadership to support SMC at a moment of significant change. We expect the AD/METIS team to assist SMC substantiate the Air Force’s Space Enterprise vision into new programs and initiatives.”

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Rafael Selects aPriori for Product Cost Management

20 June 2017

aPriori has been selected by Rafael Advanced Defense Systems, a leading worldwide manufacturer and provider of military defense products and related services. Rafael will start their implementation of aPriori at their design and engineering center in Haifa, and will be growing their deployment across their enterprise over the course of the multi-year program.

Rafael is one of Israel's largest defense companies, with 2016 sales of \$2,166 million, an order backlog of \$5,651 million and a net profit of \$123 million. They develop and manufacture advanced defense systems for the Israeli Defense Forces and the defense establishment, as well as for foreign customers around the world. Rafael offers its customers a diversified array of innovative solutions at the leading edge of global technology, from underwater systems through naval, ground, and air superiority systems to space systems.

“Rafael has several key objectives they wish to accomplish through this strategic partnership with aPriori,” said Ofer Abraham, Project Manager in R&D and Engineering Division. “Our aim is to reduce cost driven changes late in the design cycle by identifying cost-drivers in the early concept and preliminary detailed design stages. We also work with a large network of suppliers, and we will be using aPriori to generate cost estimates with detailed manufacturing data that allows us to negotiate more cost effective agreements with these suppliers.”

aPriori’s product cost management platform will provide Rafael’s design and sourcing teams with real-time cost estimates on parts and products in design. The software leverages CAD and intelligent cost models to quickly determine feasible manufacturing methods and product costs while generating detailed manufacturing analysis and cost estimates that quantify the impact of changes to product design, materials, manufacturing processes, volumes and location in real time. aPriori will also provide the Rafael procurement and sourcing teams with regional cost benchmarks based on the company’s specific product requirements, enabling it to collaborate more effectively with its suppliers.

“aPriori product cost management software takes the guess work out of what a new product design will cost when it gets into production, or what a sourced part should cost from a supplier in a particular region,” said Stephanie Feraday, President and CEO of aPriori. “What our customers say most often is that our ability to generate an accurate, detailed cost estimate in real-time not only helps them identify and mitigate cost drivers early in the process, but it helps them accelerate time to market by eliminating the latency they historically see with their manual cost estimating systems.”

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Product News

Atos Expands Range of Supercomputers to Include ARM Processors with New Bull Sequana X1310

19 June 2017

Atos announces the Bull Sequana X1310, the first productized supercomputer to use ARM processors. This new model is part of its Bull Sequana X1000 supercomputer range. Bull Sequana is an open range of supercomputers that is ready to support future Exascale technologies – which will make it possible to process a billion billion operations per second.

As datacentres consume ever more power and generate more heat, equipping servers, especially those of supercomputers, with highly energy-efficient ARM processors is a logical choice as it enables them to address performance, power and cost issues. ARM is the industry’s leading supplier of microprocessors, with proven expertise and strong market share (over 90%) in the smartphone industry.

Pioneering ARM technology for HPC with Mont-Blanc project

Partners working on the Mont-Blanc project deployed the world’s first ARM-based HPC cluster a few years ago, a prototype based on Bull blades, demonstrating the viability of using ARM technology for

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HPC. The ARM ecosystem has now reached a maturity with which it can support large HPC configurations, and the HPC community is keen to take advantage of the benefits of ARM processors. With ARM's recent introduction of its energy-efficient 64-bit CPUs targeting servers, ARM-based supercomputing is now within reach.

Atos is coordinating the third phase of the Mont-Blanc project, which aims to define the architecture of an Exascale-class compute node based on ARM, and capable of being industrialized. For their research and evaluations, Mont-Blanc partners will rely on a test platform developed by Atos and will leverage the Bull Sequana X1000 architecture. Atos will integrate and industrialise this platform in its standard product range under the name of Bull Sequana X1310.

"The Mont-Blanc partners are delighted by this announcement. We have long been convinced that, due to their energy-efficiency, ARM processors offer tremendous potential for High Performance Computing. We would like to give special thanks to the European Commission for their support throughout our project" said Etienne Walter, coordinator of the Mont-Blanc project.

"This project is part of our Exascale program for 2020, under which we are developing a new generation of supercomputers. Numerous institutions and private companies throughout the world use Atos technologies to accelerate research and innovation. Atos designed the Bull Sequana X1000 system as an open platform, to offer HPC users a large choice of computer architectures from which to choose, and to support the future processor technologies that will make it possible to reach the exaflops level. It is therefore a natural step to extend the range to include ARM processors, together with the existing CPUs, core processors and co-processors" explained Agnès Boudot, Group VP, Head of HPC at Atos.

Atos supercomputers' high-data volume processing capabilities are also maximized within Atos' Big Data services including "Atos Codex", an integrated end-to-end analytics solution including predictive computing and cognitive analytics.

Availability

The Bull Sequana X1310 blade includes three compute nodes, each equipped with two latest generation 64 bit ThunderX2 processors from Cavium®, based on the ARM® v8 instruction set. The new model will be available in Q2 2018.

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EVERYTHNG Announces Industry-First Connection of GS1 Identifiers with the Internet of Things at Industrial Scale

20 June 2017

EVERYTHNG, an Internet of Things Smart Products Platform for consumer products, today announces the first-of-its-kind integration of EVERYTHNG Active Digital Identities™ with GS1 Standards. The integration enables consumer goods brands to use the billions of existing GS1 identifiers deployed on consumer goods to web-enable their products and drive new digital applications across the product lifecycle. EVERYTHNG is a GS1 US Solution Partner.

In the world's first-ever implementation of GS1 semantics in an Internet of Things (IoT) framework, EVERYTHNG's Active Digital Identities™ now provide operational support for all GS1 identifiers and GS1 data sharing standards. This industry-leading development enables all brands already working with GS1 identifiers to seamlessly and rapidly apply IoT technology to drive new digital product lifecycle management capabilities. GS1 Standards are used globally to identify products—critical to enabling

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products to work with different systems and applications.

EVERYTHNG is the market-leading Internet of Things platform for consumer products, providing digital identities to billions of consumer products via unique and intelligent software identities in the cloud. Through partnerships with global packaging solution providers—including Avery Dennison RBIS in the apparel & footwear industry and Crown and WestRock among others in the consumer packaged goods industry—EVERYTHNG is able to adhere digital identities to products as they're manufactured. EVERYTHNG's integration of Active Digital Identities™ and GS1 Standards further strengthens its market-leading capability to bring speed, convenience, and scale to the digitization of all physical products building on existing standard identification methods.

Leveraging these #BornDigital™ products, consumer goods brands can easily deploy digital applications across the product lifecycle—such as supply chain traceability, quality control and inventory management, direct-to-consumer experiences for product information, e-commerce and CRM, and sustainability. End-to-end digital lifecycle management for products makes supply chains smarter and cultivates more valuable customer and consumer connections.

“GS1 identifiers are the standard in global commerce, and identify billions of products in the supply chain around the world. It's both exciting and important to the digital transformation of the consumer product industry to leverage GS1 Standards with EVERYTHNG's innovative Internet of Things technology, thereby providing a shortcut for brands to switch-on their products as digital assets and manage digital product lifecycle at industrial scale,” said Niall Murphy, Co-founder & CEO, EVERYTHNG.

“As a GS1 US Solution Partner, EVERYTHNG will help our members maximize their existing implementation of GS1 Standards and adapt their digital strategies to a more technology-driven, IoT world,” said Siobhan O'Bara, Senior Vice President, Industry Engagement & Services, GS1 US.

Commenting on the industry implications, Dwight Meyer, former President, Global Sourcing, Logistics, and Distribution for Warnaco, said: “It's clear the market has changed, and brands with the ability to know their customers, form a relationship, and react to demand are winning. Real-time information and transparency throughout the product lifecycle, combined with a speed-to-market capability, are critical to driving profitable growth. EVERYTHNG's digital enablement of GS1 Standards creates an environment where the needed changes to operating models can begin.”

EVERYTHNG and Avery Dennison RBIS are applying this technology standardization to the Avery Dennison Janela™ solution, powered by the EVERYTHNG Smart Products Platform, which assigns unique identities to apparel and footwear products. The new, joined up capability for an RFID tag with a standard Electronic Product Code (EPC) to communicate with the Active Digital Identity™ in the cloud enables a wide range of consumer in-store applications. This allows for self-checkout and better product availability, and enables omnichannel experiences across the consumer shopping journey to drive store traffic and unlock consumer analytics.

Bill Toney, Vice President of RFID Market Development at Avery Dennison, shared: “Janela is one of the first solutions to enable apparel brands and retailers to leverage the power of connected products to drive a seamless in-store shopping experience and reveal consumer analytics, which was once only possible online. This GS1 standardization introduces the extension of the RFID EPC standard with 2D barcodes to unlock in-store consumer experiences, with the goal of enhancing store traffic, in addition to capturing in-store shopping journey data received from the same online customer. This is exciting for both the industry and the advancement of omnichannel strategies.”

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Brands can rely on standards-based GS1 coding to ensure all their applications and systems can interact with product items.

EVERYTHING will be demonstrating its #BornDigital™ solutions at GS1 Connect 2017 (Booth #50) at the Cosmopolitan Hotel in Las Vegas, June 20-22.

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HPE Delivers Faster Business Insights and Industry-Leading Security with New High Performance Computing Solutions

19 June 2017

Hewlett Packard Enterprise today announced a new generation of High Performance Computing (HPC) and artificial intelligence (AI) systems, software and services to accelerate scientific, engineering and business innovation. The new HPE Apollo 6000 Gen10, HPE SGI 8600 and HPE Apollo 10 Series systems are workload-optimized to deliver faster, more efficient insights while reducing vulnerability to cyber-attacks and improving economic control.

The explosive growth in data coupled with increasingly complex HPC and AI algorithms is fueling demand for scalable processing performance. This requires systems that can maximize compute performance, agility, security and flexibility while reducing energy consumption and space utilization, and expertise to manage future technology investment planning.

“Today, customer’s HPC requirements go beyond superior performance and efficiency,” said Bill Mannel, Vice President and General Manager, HPC and AI solutions, Hewlett Packard Enterprise. “They are also increasingly considering security, agility and cost control. With today’s announcements, we are addressing these considerations and delivering optimized systems, infrastructure management and services capabilities that provide A New Compute Experience.”

To help customers meet these needs, HPE is announcing the following:

New Optimized Systems for Extreme Compute Performance

HPE SGI 8600 System – The first co-created system since HPE acquired SGI, the HPE SGI 8600 is a liquid cooled petascale system, based on the legacy SGI ICE XA architecture, purpose-built to solve the most complex scientific, engineering and national security challenges and:

- Delivers industry’s fastest parallel processing performance¹
- Scales to more than 10,000 nodes without additional switches using integrated switches and hypercube technology²
- Offers more choice and flexibility based on industry standards

HPE Apollo 6000 Gen10 System – The next generation of HPE’s large commercial, air-cooled, HPC platform was redesigned to deliver over 300 teraflops per rack, higher rack-scale efficiency and exceptional price performance. The HPE Apollo 6000 Gen10 is also the most secure HPC system in the world³ leveraging a unique “silicon root of trust” technology for security threat protection. Key new capabilities of this system include:

- Industry leading reliability, accessibility, serviceability and manageability
- Greater application licensing efficiency

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- Reduced latency and higher IOPs performance
- Reduced power consumption and cooling requirements

Chemical company BASF, one of the first users of the HPE Apollo 6000 Gen10 system, jointly developed a supercomputer for the digital transformation of chemical research with HPE. This is the largest supercomputer used for industrial chemical research and enables BASF to reduce computer simulation and modeling times from months to days, accelerating time to market and lowering costs.

HPE Apollo 10 Series – New cost effective platforms, optimized for entry level Deep Learning and AI applications that are easy to manage and deploy. The HPE Apollo sx40 System is a 1U dual socket Intel Xeon Gen10 server with support for up to 4 NVIDIA Tesla SXM2 GPUs with NVLink. The HPE Apollo pc40 System is a 1U dual socket Intel Xeon Gen10 server with support for up to 4 PCIe GPU cards.

HPE and Biovista Collaboration – This collaboration will leverage HPE’s Compute capabilities and Biovista's Big Data AI engine, Project Prodigy, to identify and validate new therapeutic options for personalized medicine, and apply this approach at the community hospital setting, including in Biovista’s existing collaborations with community hospitals.

“HPE’s new compute experience is designed to enhance security by reducing vulnerabilities to denial of service and malware attacks while providing more flexible, on-demand infrastructure consumption options for HPC deployments,” said Steve Conway, Senior Vice President of Research, Hyperion Research. “The new performance, scale and efficiency innovations for the HPE SGI 8600 and HPE Apollo 6000 Gen10 demonstrate HPE’s continued systems innovation and the successful integration of the SGI acquisition.”

A New Compute Experience for HPC and AI

HPE’s HPC systems are enhanced by a new compute experience designed to address the data intense needs of HPC and AI customers. The key elements of the HPC experience include:

- Enhanced firmware security – Designed to protect top secret, highly confidential information, HPE offers the industry’s first industry standard servers with firmware anchored into the silicon with the highest level of security, according to the Commercial National Security Algorithms.
- Increased agility with software defined HPC capabilities - The new HPE Performance Software Suite for HPC consists of the following elements:
 - HPE Performance Software - Core Stack 2.2 - pre-built HPC solution that brings together open source, third party and HPE built components into a single integrated distribution.
 - HPE Insight Cluster Management Utility 8.2 and New HPE SGI Management Suite 3.5 – comprehensive system management solutions offering enhanced provisioning, management and monitoring to simplify operations.
 - HPE Performance Software – Message Passing Interface – libraries and optimization tools to enhance HPC application performance.
- Validated, optimized and integrated third party software solutions for workload management and application software development to enhance agility and productivity.
- New and Enhanced Services for HPC and AI – HPE Pointnext is introducing advisory, professional, and operational services that accelerate time to value for HPC and AI. HPE Flexible Capacity will extend to HPC and AI customers to manage unpredictable demand, raise

utilization levels, and reduce total cost of ownership.

HPE Leadership in Top500 and Green500

HPE continues to lead the recently published Top500 and Green500 supercomputer rankings with a significantly larger number of systems compared to next nearest vendor. The HPE SGI 8600 system in the TSUBAME 3.0 cluster deployed at Tokyo Institute of Technology is the #1 ranked system in the Green500.

HPE is showcasing its next-generation HPC and AI solutions, software and services portfolio and exascale program capabilities at the ISC HPC conference in Frankfurt, June 19 to 22, booth E-1030.

Availability

HPE Apollo 6000 Gen10 System, HPE Apollo sx40, HPE Apollo pc40, HPE SGI 8600 System will be globally available via HPE and HPE channel partners in July 2017. HPE Pointnext services for these new HPC and AI solutions will be available later this year.

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IBM Unveils New Ways to Use, Develop for Db2 for Greater Data Control

22 June 2017

IBM today announced several key additions and enhancements to its popular database software, IBM Db2, that bring the trusted enterprise-class data management capabilities to global clients in fast, new, easy ways.

The company launched today Db2 Developer Community Edition, a new offering aimed at developers that can be quickly and easily downloaded, at no cost. This new edition, is a full-featured version of Db2 that is designed to enable developers to rapidly build prototypes of applications that leverage all the capabilities of the Enterprise Edition. Whether to desktops or laptops, users can download the complete software and begin uploading and managing their data usually within 15 minutes or less.

“Among many organizations, we’re witnessing a shift in influence to a new breed of application developer who is looking for agile ways to create apps that their companies can leverage,” said Rob Thomas, General Manager, IBM Analytics. “Through these Db2 innovations, we’re making it easier than ever for developers to get involved with this rich environment and create innovative apps that propel their businesses.”

Additional Db2 Enhancements

Db2 on Cloud – this new version of Db2 on Cloud is a fully managed service, available on the IBM Cloud. Among the service’s new features is a sliding scale for compute power and capacity. With the simple scroll of a mouse, users can slide the scale to increase or decrease the processing power, and associated necessary RAM, instantly. Users can also scroll to increase storage capacity. Eliminated is the laborious process of requesting and procuring more computing resources from IT. The new Db2 on Cloud complements IBM’s Db2 Hosted, a version of the database that is hosted on IBM Cloud for clients looking for greater control of the platform.

A new easy-to-use web console has also been added to Db2 on Cloud that’s designed to help clients get acclimated and up and running faster.

JSON Support – IBM announced that Db2 now supports JSON, the open-standard file format that uses

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“human-readable” language to transmit data objects. JSON, typically used by new applications, can now be integrated into Db2’s relational database system, giving users an easy way to store application data. Developers can now use their existing SQL skills to store, manage, and select JSON data from within Db2. This reduces the need to learn special purpose data stores and provides the opportunity to bring mobile and web engagement data into analytic warehouses for greater user insights. Db2 optimizes retrieval of JSON data with index support, improving query performance.

In addition, IBM is extending Db2 with Hybrid Transactional / Analytical Processing (HTAP) with the rollout of a technical preview of BLU Acceleration in-memory secondary index support. IBM Db2’s use of the BLU Acceleration engine for HTAP avoids the standard practice of replicating data, decreasing memory requirements and latency versus rival databases. Secondary indices will dramatically improve performance of some queries for operational data store and analytic warehouses, as well as OLTP and HTAP workloads. With today’s release, early access program customers can begin testing Db2’s initial capabilities with their application development environment.

DB2 Analytics Accelerator for z/OS has also been enhanced with Hybrid Transactional and Analytics Processing (HTAP) capabilities that provide improved real-time processing and simplicity for applications by removing the need to manage latency in the data replication process.

Db2 on Cloud Benchmark – IBM published a new benchmark test today that demonstrates better overall performance and double the performance/dollar over the leading cloud database competitor, Amazon Aurora.

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International TechneGroup announces CADfix Plant & Process Simplification (PPS) Software

20 June 2017

Global interoperability solution leader International TechneGroup Incorporated (ITI) introduces the CADfix™ Plant & Process Simplification (PPS) software solution. CADfix™ PPS is a new, user-friendly solution – built on a proven CAD model translation, repair, healing, defeaturing and simplification platform – to help plant and process design engineers achieve up to 70% reduction in engineering design labor and costs associated with large MCAD model simplification.

Plant and construction layouts include multiple complex machines and large equipment installations. CAD models of these equipment installations contain much more detail than is needed in the full plant layout. Since field users often receive data over cellular connections, large files are costly and slow. In addition, equipment providers who are contracted to deliver files often want to protect their intellectual property. CADfix™ PPS enables engineers to easily and quickly simplify large CAD assemblies for more efficient integration into their plant design systems.

“Quickly removing unwanted parts or details and simplifying others allows seamless incorporation of equipment models into the overall plant layout and easier file sharing,” stated Andy Chinn, Commercial Director at ITI UK’s CADfix™ development office. “CADfix™ PPS users will experience fast model processing, high levels of data reduction and significantly smaller files. This leads to productivity improvements that are critical to meeting deadlines, achieving profit targets, and moving to commissioning faster.”

“For the plant and process industry, the holy grail of project management is avoiding project delays and financial penalties. Not only can companies achieve file simplification and integration efficiencies with CADfix™ PPS, but they also have an easy-to-use solution which helps them achieve early project

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completion,” added Jamie Flerlage, EVP Global Business Development, ITI. “Once the data is simplified, it can be reused in most plant design systems. In that sense, customers can use CADfix™ PPS to simplify the data once and then reuse it multiple times across multiple platforms.”

Tom Gregory, CEO, ITI, added, “The timing of the CADfix™ PPS launch is ideal. While U.S. construction spending projections for the power and manufacturing industries are optimistic and trending upwards, there will be continued pressure for productivity and profitability. Using CADfix™ PPS, our customers are able to get to commissioning faster and can more easily achieve both financial targets and timeline goals.”

CADfix™ PPS simplification tools can be run in an automated batch process or with manual user interaction. General operations can be run using the “wizard” in the automated environment, with manual interaction when the user requires greater control of the simplification process. The rapid internal detail removal is especially helpful for complex assemblies that are fully enclosed within cabinets, and where only the key locating and connecting points are required. CADfix™ also allows for quick identification and removal of unwanted small details such as nuts, bolts, washers and other small parts unnecessary for full plant layout.

The power of using CADfix™ PPS is in the simplification of large CAD assemblies for integration into plant and process design systems, where productivity improvements make a real difference. “When you use CADfix™ PPS to reduce file sizes you can eliminate import failures, avoid CAD rework and deviation potential, gain greater stability and usability of plant and process systems with large equipment models integrated, and reduce lead times,” added Chinn.

For a limited time, ITI is offering a complimentary software trial of CADfix™ PPS.

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Maplesoft Makes Model Based Systems Engineering Accessible to More Engineers with New MapleMBSE

20 June 2017

Maplesoft™ today announced the release of MapleMBSE, a new product that enables companies to employ a Model-Based Systems Engineering (MBSE) approach to requirements management without requiring every engineer on the project to be an expert in complex MBSE tools. Using an Excel®-based interface, MapleMBSE makes collaboration on requirements accessible to all stakeholders, not just the MBSE tool experts, and provides streamlined interfaces for each task in the MBSE project. This ensures system-wide collaboration on the project, while reducing the time and errors that typically come with using a standard MBSE tool.

The new MapleMBSE advantages include:

- Intuitive, Excel®-based interface for easily entering system definitions without having to go through a complex MBSE tool
- Automatic population of information into the MBSE tool, translating the engineer's inputs into system structures, behaviors, requirements, and constraints
- Integration with standard SysML-based MBSE platforms such as IBM® Rational® Rhapsody® or No Magic™ MagicDraw®
- Rapid impact analysis of design changes to test for conflicting requirements, all from within the

intuitive MapleMBSE environment

- Optimized tool views for common MBSE tasks, such as requirements, failure mode and effects analysis, trade-off studies, and structure analysis
- Simple interfaces designed to reduce many common errors that occur when using MBSE tools directly
- Customized implementations provided by Maplesoft Engineering Solutions experts to ensure that MapleMBSE is tailored to the organization's exact MBSE process

"There is no doubt MapleMBSE saves valuable time," said Masaaki Kubo, General Manager of Nissan Motor Company. "When we compared MapleMBSE with another MBSE tool and measured the time it took to perform common operations, we found MapleMBSE allowed our engineers to complete these tasks four times faster than with the other tool. MapleMBSE has a friendly and effective user interface which enabled Nissan engineers from many different disciplines, including mechanical, electronic, and electrical engineers, to quickly learn the tool and perform tasks very easily."

"MBSE tools offer organizations tremendous value in how they keep a tight connection to requirements in every phase of the project; however, they are notoriously difficult to use," says Dr. Laurent Bernardin, Chief Operating Officer and Chief Scientist at Maplesoft. "Research published during the development of MapleMBSE shows that the use of MapleMBSE resulted in a four-fold reduction in errors compared to a standard MBSE tool, and the elimination of complex, difficult-to-correct errors. It's a practical tool with a quick ramp-up time that makes system engineering easier."

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Modelon Releases OPTIMICA Compiler Toolkit 1.0 - the First Official End-User Release

19 June 2017

Modelon's OPTIMICA Compiler Toolkit is used for the automation, simulation and optimization of systems throughout the model based design cycle. A Modelica and FMI-based platform, OPTIMICA supports transient simulation, dynamic optimization, model predictive control, and steady state simulation. The platform natively supports Python and MATLAB scripting, automation and visualization for easy implementation of custom workflows.

Features of OPTIMICA Compiler Toolkit 1.0 include:

- Compliance with Modelica Standard Library 3.2.2, generating FMUs 1.0 and 2.0 for Model Exchange and Co-Simulation
- Enhancements for intuitive formulation of optimization problems as well as steady-state problems;
- An available API - enabling programmatic access to Modelica library code for analysis and custom applications; and
- State of the art numerical solvers offering high performance and reliability, as well as expert diagnostics tools that isolate and resolve numerical issues.

FMI Toolbox for MATLAB/Simulink is a companion product, complimenting OPTIMICA and extending its capabilities to include simulation of FMUs in MATLAB and Simulink.

The OPTIMICA Compiler Toolkit is compliant with Modelon libraries.

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ModuleWorks and ZEISS Cooperate on a Unified CAD/CAM Solution for Ultra-Precision Machining

20 June 2017

ModuleWorks, the leading supplier of CAD/CAM software components for machining and simulation, and ZEISS, an internationally leading technology enterprise operating in the fields of optics and optoelectronics, are developing a solution that combines conventional CAM and the requirements of ultra-precision machining in a single CAD/CAM system.

Ultra-precision machining is used for parts that need to be machined to an accuracy of just a few μm and a roughness in the range of nm. Optical parts require both types of machining, ultra-precision machining for the optically effective areas of the part and conventional machining for the non-optical areas. Until now, no single CAD/CAM system combines both types of machining in a single, integrated solution.

ModuleWorks and ZEISS are working together to develop new machining cycles for an integrated process chain that enables optical parts to be machined using a single CAD/CAM system. Integrating all machining relevant processes in a unified system is expected to accelerate process programming for cutting complex freeform surfaces and to improve the quality and cost-efficiency of producing ultra-precision parts.

The new system is powered by the ModuleWorks 64-bit optics kernel. The kernel is based on the industry proven ModuleWorks 5-axis technology for toolpath generation and has been specially developed to meet the growing demand for high-precision machining of increasingly complex geometries in the optics industry. The ModuleWorks optics kernel supports multi-threading for fast, ultra-precision machining of optical parts such as lenses, molding tools and lens arrays. It supports grinding and diamond turning as well as grinding patterns for roughing, drilling, chamfering, slotting and contouring. The full 3D machine and material removal simulation software can also be applied to small cutting inserts.

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NEC PLM Templates Enable the Quick and Low-Cost Introduction of Obbligato III

20 June 2017

NEC Corporation today announced the global commercialization of industry-specific Product Lifecycle Management (PLM) templates to enable a quick, low-cost and high-quality introduction of the Obbligato III PLM solution, which consolidates the management of product technology data such as design drawings, specifications and bill of materials (BOM).

The new product provides templates that feature the best practice analysis in a series of steps, from the requirement definition and design to construction and transfer, and systematizes critical functions specific to each industry. This is based on the experience gained from introducing the Obbligato series to approximately 850 companies.

Since the templates enable companies to introduce a PLM system by utilizing deliverables such as

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business models, system models and prototype environments, they can minimize the working hours required for development, as well as the risk of failure for individual customization, while enabling a system to be set up quickly and efficiently.

Initially, NEC is providing two types of templates for industries with strong needs for PLM systems, namely the auto parts industry and the industrial machinery industry. Using these templates, medium-sized companies, in particular, can expect to reduce the construction period for their PLM system by 40%, and halve the introductory cost, when compared to the introduction of a conventional PLM system from scratch.

The template for the auto parts industry efficiently implements the critical functions of a PLM system for this industry, such as global integrated BOM that promotes the sharing and utilization of BOM at domestic and international development and production sites, as well as process and resource management that improves the efficiency of process design by standardizing the information concerning processes and facilities together with BOM. With these functions, it enhances the global quality traceability and improves quality, cost, delivery (QCD) in the preparation for development and production.

The template for the industrial machinery industry efficiently implements the functions that are critical for a PLM system used in this industry, such as integrated BOM management that promotes cross-sector sharing in BOM design and production in standard development and individual order intakes. Moreover, the template enables product definition management that leads to increased efficiency in the module selection for preparing estimates and taking orders by visualizing the relationship between the specifications and modules. With these functions, it seamlessly coordinates a series of operations, from sales to design and production, and reduces the lead time from order intake to production.

"NEC remains focused on the promotion of its social solutions business and continues to work on the provision and expansion of solutions that contribute to the transformation and advancement of the world's manufacturing infrastructure," said Miwako Satou, General Manager, Services and Technologies Division, NEC Corporation.

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New LMS Sound Camera from Siemens Accelerates Acoustic Troubleshooting

22 June 2017

Siemens today is launching the new LMS Sound Camera, a fast and versatile sound source localization system that helps accelerate acoustic troubleshooting for a wide variety of industries, and enhances sound design and brand perception. In the field or in the lab, this modular, high-quality digital microphone array with dedicated software offers instant and accurate visualization of sound sources for any noise-generation object. Part of Siemens' Simcenter™ portfolio of advanced simulation and test solutions for predictive engineering analytics, the LMS Sound Camera™ system can be used in three sizes by utilizing short and long arms. Coupled with additional microphones, it increases its operational capabilities based on customer needs. It covers a range of frequency up to 20 kHz. New digital sensors, scalable design and quick time-to-result provides a more effective and more affordable product that can be used by both novice and expert users.

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“LMS Sound Camera will enable simple as well as highly technical and sophisticated testing to be completed with much less set-up time and training,” said Dr. Jan Leuridan, Senior Vice President of Simulation and Test Solutions for Siemens PLM Software. “This new addition to our Simcenter portfolio offers exciting opportunities in sound source localization across multiple industries including automotive, aerospace, marine, consumer goods, industrial machinery and much more.” Using LMS Sound Camera enables engineers to accelerate acoustic troubleshooting by locating sound sources from different distances and angles. With its short arms, the array can provide reliable results in the near and far field. Its long arms can be used for bigger objects that require measuring from further away.

Utilizing LMS Sound Camera, performing efficient acoustic troubleshooting becomes independent from distance or object size. The same array can be used in the field one day, and in the lab the next. It can also be used by different teams for a multitude of sound source localization tasks. Because all electronics are integrated in the array, there is no need for other external data acquisition systems. It permits instant, reliable localization of any stationary, transient or impulsive sound.

For more advanced applications, LMS Sound Camera can be combined with LMS SCADAS™ hardware and LMS Test.Lab™ software, which are also part of the Simcenter portfolio. LMS Test.Lab offers a complete, integrated solution for test-based engineering that combines high speed multi-channel data acquisition with a full suite of integrated testing, analysis and report generation tools.

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SUSE CaaS (Container as a Service) Platform Makes Applications Easy to Run, Customers More Agile

19 June 2017

SUSE® today launched SUSE CaaS (Container as a Service) Platform, a development and hosting platform for container-based applications and services. The solution is a valuable new piece of SUSE's growing software-defined infrastructure portfolio, which integrates open source technology to drive next-generation innovations that matter to customers. SUSE CaaS Platform lets IT operations and developers provision, manage and scale container-based applications and services to meet business goals faster.

Organizations looking to improve business agility are adopting a software-defined infrastructure approach to support containerization of their applications. Most are either containerizing existing applications directly or using a modern microservices architecture approach. SUSE CaaS Platform supports both tactics, helping customers be more agile and reduce operating costs.

"Container innovation is improving how applications are developed and run, but companies don't want to have to set up and maintain a complex and secure container infrastructure by themselves," said Thomas Di Giacomo, SUSE CTO. "They want to focus on creating applications that bring value to their business. So SUSE is providing an easy-to-use container infrastructure solution that helps them deploy next-generation, cloud native container-based applications and progressively migrate traditional and existing apps."

SUSE CaaS Platform consists of three key components – orchestration using Kubernetes, a purpose-built operating system (SUSE MicroOS) for microservices and containers, and configuration capabilities – that provide the following benefits to customers and partners:

- Reduced time to market using out-of-the-box platform capabilities that enable customers to

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implement orchestration using production grade Kubernetes, deploy resilient container services, maximize portability, and develop in a trusted computing environment.

- Increased operational efficiency with automation of deployment management tasks and full application lifecycle support of containers using the built-in container toolset. It provides capabilities to manage on-premise registry, build container images, securely patch container images, collaborate securely and use trusted images from the SUSE Registry.
- Enablement of DevOps for improved application lifecycle management. It bridges developers and operations using a single, unified container platform that helps save development and operations time. It also makes it easy to deploy microservices and enables coexistence of configuration and code.

"SUSE envisions several key use cases for its CaaS platform, including the enablement of DevOps and microservices implementations for faster and more automated application releases across different infrastructure," said Jay Lyman, principal analyst, Cloud Management and Containers, for 451 Research. "Organizations interested in enterprise-grade security, reliability and scalability with containers are the ones most likely to be interested in the SUSE CaaS Platform."

Partner Statements on SUSE CaaS Platform

Craig Parker, head of Integrated Systems Business at Fujitsu in EMEA, said, "As we endeavor to equip our customers with the latest in container innovations, SUSE's Container as a Service Platform provides us with a strategic choice to adopt a modern container infrastructure solution while saving costs in building and maintaining a proprietary set of container tools. In addition, the integrated SUSE MicroOS and Kubernetes gives us a good option to run container-based applications on Fujitsu hardware and keep them up to date with minimal manual intervention."

Will Ochandarena, senior director of Product Management at MapR Technologies, said, "Stateful application containers are a critical component of next-generation intelligent applications. The end-to-end container management provided by the SUSE CaaS Platform nicely complements the persistent data services provided by the MapR-XD Cloud-Scale Data Store to enable applications that operationalize data-driven insights in real-time."

Tim McIntire, co-founder of StackIQ, said, "In addition to our support for SUSE Linux Enterprise Server 12, we are delighted to partner with SUSE and support their Container as a Service Platform. Our joint customers get the benefit of lightning-speed deployments of container farms on bare metal with Open Source Stacki, and an improvement in performance from running containers directly on bare metal."

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Zuken Improves Team Communication and Strengthens Support for High-speed Design with CADSTAR 18

22 June 2017

Zuken announces enhanced support for communication between multidisciplinary design teams, through the new CADSTAR Redlining markup tool.

The latest version of its CADSTAR desktop PCB design software also supports industry requirements for high-speed design, and includes across-the-board performance enhancements and ease-of-use features. One highlight is developments in the industry-leading Activ-45 router – making the routing

experience even more intuitive and powerful, and giving users more control over their designs.

Redlining for speedy and accurate communication

The new CADSTAR Redlining tool improves communication between multidisciplinary teams to help companies maintain a competitive edge and promote design quality. Users can quickly mark-up designs during review and easily communicate design issues. During production, electrical engineers and PCB designers can feed back changes, such as component swaps. Redlining offers a permanent and accurate record of change activity: who carried out changes, when they happened, what was changed, and why.

To help CADSTAR 18 users test out the benefits for themselves, Zuken is offering free access to CADSTAR Redlining until 30 November.

Jeroen Leinders, CADSTAR Worldwide Sales Manager, said: “The CADSTAR Redlining tool helps companies maintain a competitive edge and promotes design quality by helping manufacturers and engineers of any discipline communicate changes as quickly and accurately as possible.”

Strengthened support for high-speed design

As more applications become high-speed, requiring support for DDR3 and DDR4, it is increasingly important that via length is taken into account. To address this, the calculated minimum and maximum lengths of nets and pin pairs can now include via lengths derived directly from the layer stack. With the via length taken into account change information is communicated as early as possible to engineers managing signal integrity, so implications on impedance are considered. Improved management of net lengths means more control and accuracy is possible over signal speed for high-speed nets.

Enhanced support for high-speed design is achieved through improved accuracy in capacitance calculations for SI Verify. In turn, simulating vias more accurately ensures that board behavior more closely meets design expectations, improving design quality.

Routing enhancements

Zuken’s industry-leading Activ-45 router offers even faster and more intuitive routing, with fewer mouse clicks:

- Flags indicate which pins are swappable, which allows easy intervention during single trace manual routing.
- Layer change/via insertion includes via spiral insertion, for increased routing speed.
- Fan-out now adds teardrops during spiral via insertion, which increases the quality of the board during PCB manufacturing (also available in non Activ-45 mode).

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