CIMdata

PLM Industry Summary

Sara Vos, Editor

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CIMdata News

CIMdata's Don Tolle to Present at CAASE18

5 June 2018

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, is pleased to announce that Don Tolle, CIMdata's Director for Simulation-Driven Systems Development Consulting Practice & Knowledge Council, will make a presentation at CAASE18, the Conference on Advancing Analysis & Simulation in Engineering, which takes place at the Huntington Convention Center, in Cleveland, Ohio from June 5-7.

Mr. Tolle's presentation titled, Emerging Standards for Model-Based Systems Engineering, will take place on Wednesday, June 6 as part of a breakout session on Emerging Standards. The presentation will provide an overview of the major engineering standards efforts underway and discuss the status of the most promising systems modeling languages and data interoperability standards, those that have the greatest potential to enable the collaboration required across engineering disciplines and support the achievement of the "digital thread" vision across the entire product development lifecycle.

Mr. Tolle has more than 35 years of industry experience in the disciplines of virtual product design, development, and performance validation. He has worked with global manufacturing companies in the automotive, aerospace and defense, industrial equipment, marine, consumer products, medical products, and high-tech electronics industries. Mr. Tolle's current interests center on the definition and adoption of model-based engineering methodologies and tools to connect the disparate and "loosely connected" disciplines involved with systems engineering and conceptual design and the persistent use of robust system models throughout the product development lifecycle.

Mr. Tolle and other members of the CIMdata team will be available to meet with attendees during this three-day event.

For more information on CAASE18 visit: https://www.nafems.org/2018/americas/

About CIMdata

CIMdata, a leading independent worldwide firm, provides strategic management consulting to maximize an enterprise's ability to design and deliver innovative products and services through the application of

Product Lifecycle Management (PLM) solutions. Since its founding in 1983, CIMdata has delivered world-class knowledge, expertise, and best-practice methods on PLM solutions. These solutions incorporate both business processes and a wide-ranging set of PLM-enabling technologies.

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

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CIMdata to Host Free Webinar on Digitalizing Reality

5 June 2018

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces an upcoming free educational webinar, "Digitalizing Reality." The webinar will take place on Thursday, July 12 2018, at 11:00 a.m. (EDT) and will last for one hour.

The digital enablement of key business processes is growing rapidly. At times, these developments seem to be moving at warp speed, are difficult to follow and understand, and are even more difficult to integrate into one's business. The opportunities and their business value are clear, but many have no idea how to enable them to derive real value. This webinar will help attendees:

- To better appreciate that such opportunities apply to the whole company, are true business opportunities, and should be managed as such.
- To understand that PLM is at the core and that a PLM initiative is a business transformation initiative.
- To understand that with a solid strategy for implementing these trends, a company will be much better prepared to gain value from future trends.

According to Gerard Litjens, CIMdata's Vice President for EMEA, and the host for this webinar, "With all the new trends that are presenting themselves in global manufacturing, such as Industrie 4.0, the Industrial Internet of Things, the Internet of Things, Digital Twins, Additive Manufacturing, and Big Data, PLM has another opportunity to take its business transformational value into the corporate boardroom."

Mr. Litjens has over 30 years of experience in information and communication technology, product and plant lifecycle management, and other business-enabling solutions for research, engineering, and manufacturing organizations worldwide. He has held various positions in consulting, management, business development, business analysis, education, and ROI development of PDM/PLM, supply chain management, and ERP solutions. At CIMdata he provides in-depth analysis, strategic and tactical business planning, market and channel development, and training services to a range of IT, PLM,

CAD/CAM, and ERP solution providers, systems integrators, and resellers. He also provides PLM strategy assessments, benefits analysis, system selection, education, training, and implementation planning services to a range of industrial companies.

This webinar will be of interest to senior executives including COOs, CMOs, engineering executives, marketing executives, manufacturing executives, and maintenance executives; product planners, product managers, and product portfolio managers; PLM team leaders, PLM team members, and all PLM users; product managers, IT leadership, and solution providers; and anyone who wants to learn more about how PLM is at the core of the main product and service trends.

During the webinar attendees will have the opportunity to ask questions about the topics discussed. To find out more, visit https://www.cimdata.com/en/education/educational-webinars/webinar-digitalizing-reality.

To register for this webinar please visit
https://register.gotowebinar.com/register/5884130321160767489.

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Digital Transformation with OpenBOM (CIMdata Commentary)

6 June 2018

Key takeaways:

- *OpenBOM's cloud-enabled solution facilitates a company's digital transformation by sharing data across independent silos.*
- *The Bill of Material (BOM) and product configurations are at the core of the product development process and current spreadsheet implementations hold companies back.*

In today's highly competitive marketplace, customer demands are driving product developers toward

more customizable products. This level of complexity puts pressure on product engineering's ability to create and manage more multipart product configurations. Central to product development and the processes surrounding manufacturing is the Bill of Material (BOM). Yesterday's solution of a spreadsheet to capture a product's BOM and those of its numerous variations is holding many companies back and impacting their bottom lines. The OpenBOM (www.openbom.com) solution of a cloud-enabled BOM bypasses the limitations of a file-based spreadsheet with its ability to support complex configurations across geographically distributed design and manufacturing sites. CIMdata's targeted research and industry experience strongly upholds this view.

Today, the most common tool to define and manage a product's BOM is a spreadsheet. While the product BOM is at the core of an effective product development process, a spreadsheet implementation carries with it heavy liabilities of out of date data and error-prone human edits. Changes authored in one location may be late in being communicated to other sites or may not be communicated at all.

The reliance on a spreadsheet is further complicated by the heterogeneous nature of product development tools used in partner companies and in the company's supply chain. Each contributing player may use a different PDM solution for their internal work. The same may be true of the lead product development company itself with design engineering and manufacturing having different systems. Developing and maintaining interaction between each of these systems and a singular, up-to-date BOM spreadsheet is difficult at best. The speed of distributing BOM changes and the coordination between manufacturing sites is critical.

Access to OpenBOM

OpenBOM currently targets their solution towards small to medium business (SMB), suppliers, partners, and small OEMs by providing a collaborative design sharing environment for complex assemblies without dictating a specific PLM solution suite or PDM system be used. With OpenBOM's cloud-based BOM all geographically distributed stakeholders can share the most up-to-date product information in real-time, and without the requirement of an on-premise IT infrastructure. Sensitive to entry cost, OpenBOM's low cost provides easy justification and use in trials, pilots, and small-scale deployments.

Users gain access to OpenBOM through the OpenBOM dashboard web page (Figure 1). Browsers Chrome, Firefox, and Safari are currently supported. Users can create BOMs directly within OpenBOM or import existing BOMs from spreadsheets or part catalogs as spreadsheets. In addition, CAD users can export BOMs into OpenBOM directly from within their CAD solution, including cloud-based CAD tools such as Autodesk's Fusion 360 and Onshape, Inc.'s Onshape, using an OpenBOM plug-in. Given their emphasis on SMBs today, out of the box plug-ins are available for:

- Altium LLC's Altium Designer
- Autodesk's Fusion 360
- Autodesk's Inventor
- Dassault Systèmes' SOLIDWORKS
- Kubotek's Key Creator
- Onshape, Inc.'s Onshape
- Siemens PLM Software's Solid Edge

Because of their success with SMBs, OpenBOM's management indicates they are seeing a growing

interest from larger companies and are now exploring future integrations with high-end CAD, PDM, PLM, and ERP solutions. While a SOLIDWORKS PDM integration is available out-of-the-box, others are available as a paid service. OpenBOM can also be integrated with MCAD and ECAD systems such as CATIA, NX, Creo, Cadence, and Mentor Graphics. These and other custom integrations are available as paid services.

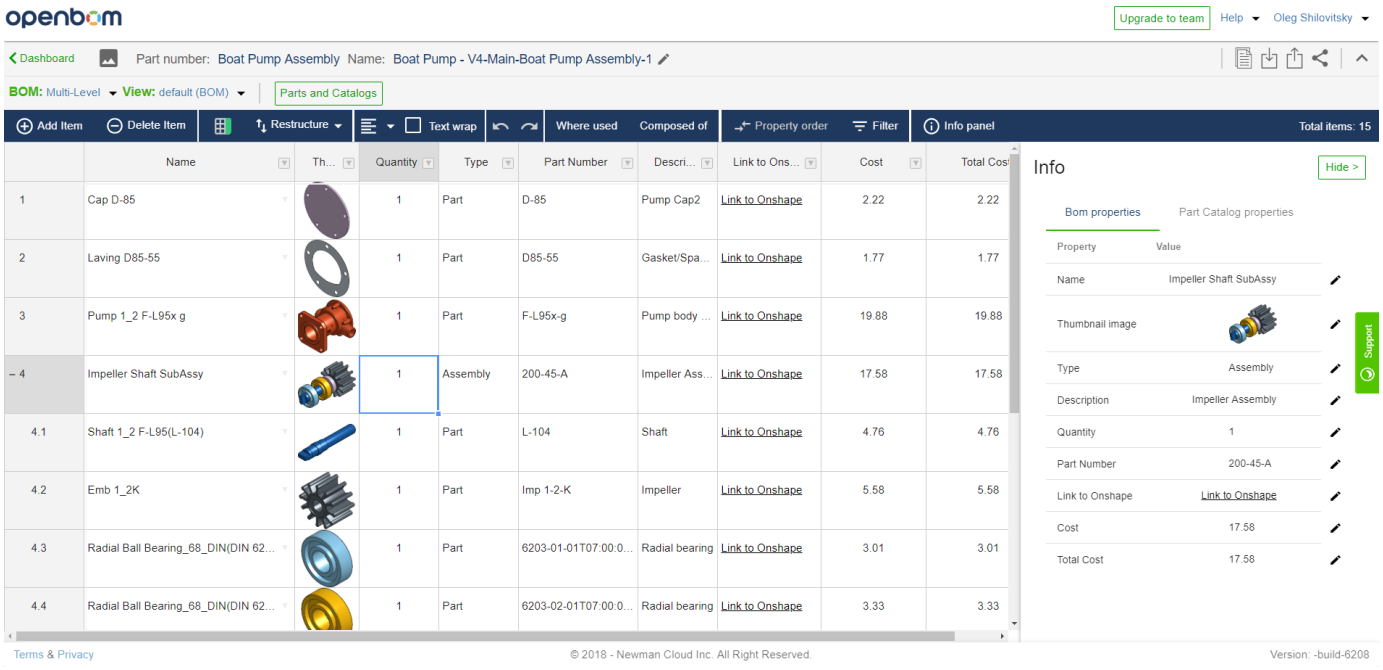

Figure 1—OpenBOM Dashboard Display of BOM
(Courtesy of OpenBOM)

Once a BOM is in OpenBOM it can be continuously updated. CIMdata recognizes this as an important capability since it allows users who currently rely on MS Excel spreadsheets for their BOM support to maintain some portion of their existing processes while they transition to OpenBOM tools at their own pace.

A BOM in OpenBOM can be exported in either Excel, CSV (comma separated values), or PDF formats. OpenBOM also provides access to data via REST API (REpresentational State Transfer Application Programming Interface) available for subscribers. Users can integrate their OpenBOM data with cloud file storage systems. In effect, the BOM can be cloud-enabled using the user's existing account for Dropbox, MS OneDrive, Google Drive, Onshape cloud storage, or Autodesk's A360 Drive cloud storage.

BOM Properties

Tools allow users to customize a BOM by adding or deleting items and add properties and values as well as formulas. Properties are data attributes associated with component parts and assemblies. In OpenBOM they can be Public or Private attributes. A Public property may be created by any user registered to OpenBOM. That Public property can then be used by any other user registered to OpenBOM and cannot be duplicated. A Private property may also be created by any user registered to OpenBOM in a Property Table and is accessible only by that user and any user with whom the Property Table is shared. Part Number is a default Public Property generated with every new BOM.

Within OpenBOM properties are displayed in the dashboard as a matrix similar to a spreadsheet where the Property name is the header and property values displayed down the column for each component in the BOM (see Figure 1). When a BOM is exported to OpenBOM from a CAD system, all its properties are also exported. The user can add additional properties or modify their values.

Part Catalogs

The OpenBOM solution delivers an added bonus to users with the implementation of named Part Catalogs containing information about Parts. A default Part Catalog is automatically created for each OpenBOM user. Once created, a user can assign multiple catalogs (or inventories) of parts to a BOM and control which Properties are added to the BOM. CIMdata sees the OpenBOM Part Catalog concept as a boon to project teams who can work with a shared set of resources.

BOM Types and User Defined Views

OpenBOM supports multiple BOM types: single-level, multi-level, and flattened. It provides flexibility in modeling hierarchical product structures and calculation of quantities across multiple levels. User defined view is a feature allowing the OpenBOM user to define what properties to preset in each view. This capability is useful for people in the organization as well as contractors and suppliers who have a different perspective of the BOM.

Strategy

At OpenBOM, the leadership views the product development landscape as built upon four centers of interest depicted in Figure 2. The first is analog data composed of 3D CAD models and 2D drawings, together with other specifications related to the models.

The second is digital process information and workflows of how the product is designed and manufactured. The third center of interest is the manufacturing value chain across product partners and suppliers. The final center delves into the intelligence that can be generated from the data to assist in decision-making. The four come together to start the digital transformation of product development companies.

CIMdata believes OpenBOM has identified the correct four aspects of innovative product development in an ever more complex world. Companies that can effectively unite data, process, and the manufacturing value chain through the central concept of the product BOM can leverage the intelligence gained from their interaction to produce winning products. Any product manufacturing company that struggles with maintaining accurate product BOMs and especially those that work with partners and suppliers would be well advised to look at OpenBOM as a possible solution.

Figure 2—Starting Digital Transformation
(Courtesy of OpenBOM)

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Dr. Keith Meintjes, a CIMdata Executive Consultant, to make a Presentation at CAASE18

6 June 2018

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, is pleased to announce that Dr. Keith Meintjes, a CIMdata Executive Consultant, will make a presentation at CAASE18, the Conference on Advancing Analysis & Simulation in Engineering, which takes place at the Huntington Convention Center, in Cleveland, Ohio from June 5-7.

Dr. Meintjes' presentation titled, Optimization: From Generative to Human-Assisted Design, and Machine Learning, will take place on Thursday, June 7 in the Advanced Information Technologies breakout session. There is now much interest in combining generative design (topology optimization, in particular) with additive manufacturing. But, the promise of the available technologies is much more than being able to make parts we could not previously manufacture. This presentation will share how the technologies and capabilities will result in a profound change in how products are engineered and developed.

Dr. Meintjes has over 35 years of experience in the development and application of simulation tools to transform product development. His achievements include novel methods for combustion simulation, patents for engine design, and strategic planning for the world's largest commercial HPC facility. Prior to joining CIMdata, he spent nearly 30 years at General Motors and was responsible for the engineering requirements for GM's Global CAE IT infrastructure and was named Senior Technical Fellow.

Dr. Meintjes and other members of the CIMdata team will be available to meet with attendees during this three-day event.

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Is Timeliness a Key to the Democratization of Simulation? (CIMdata Blog)

8 June 2018

CIMdata's Executive Consultant, Dr. Keith Meintjes, recently shared his views on the value of having a fast response time versus having to wait for better results.

He summed it up as follows:

" I now believe that the fastest response time on the devices we have is more important than waiting for better results tomorrow. That is a real challenge for solution providers: Give me the best result now, as fast as you can. That will make simulation much more useful to many more people."
Dr. Keith Meintjes, CIMdata

Learn more by reading the full blog post at: https://www.cimdata.com/en/resources/cimdata-blog/item/10289-is-timeliness-a-key-to-the-democratization-of-simulation

Don't forget to share it with your colleagues and let Keith know what you think!

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Company News

ANSYS and SAP Partner to Unveil Insights from Rich Data Across Engineering and Operations Value Chains

4 June 2018

ANSYS and SAP SE today announced their first solution under a new partnership to drive the Intelligent Enterprise by linking engineering and operations.

The partnership embeds ANSYS' pervasive simulation solutions for digital twins into SAP's market-leading digital supply chain, manufacturing and asset management portfolio. The partnership's first solution, SAP Predictive Engineering Insights enabled by ANSYS, will run on SAP Cloud Platform and empower industrial asset operators to optimize operations and maintenance through real-time engineering insights, to reduce product cycle times and increase profitability. The announcement was made at the annual SAPPHIRE NOW conference being held June 5–7 in Orlando.

Organizations can reap tremendous benefits by harnessing the massive amounts of data created during simulation and from data gathered by sensors on assets. By linking those diverse data sets, engineers can gain valuable insights into product behavior to improve future development and spur innovation. Additionally, they can develop hybrid models that fuse machine learning with deep physics simulation models to accurately predict how an asset can fail after it is deployed.

Connecting these insights to core business processes and to other asset management solutions from SAP — including SAP Enterprise Asset Management, SAP Asset Strategy and Performance Management, SAP Predictive Maintenance and Service and SAP Asset Intelligence Network — represents a significant leap forward in SAP's digital twin strategy.

Enterprises can benefit by the real-time insights driven by tracking how assets are designed, built and operated throughout the product lifecycle. SAP Predictive Engineering Insights enabled by ANSYS replaces time-based maintenance of industrial assets with predictive and prescriptive maintenance. This cloud-based industrial Internet of Things solution delivers accurate insights using a combination of real-time and predictive engineering analyses and ANSYS Twin Builder for building, validating and deploying digital twins.

"The merger of the physical and digital worlds is disrupting the way that products are manufactured, brought to market and operated," said Eric Bantegnie, vice president and general manager, ANSYS. "By harnessing the insights produced by digital twins, our customers will be well positioned to leverage that disruption and leapfrog the competition. SAP Predictive Engineering Insights enabled by ANSYS will help to fuel their innovation," he added.

SAP Predictive Engineering Insights enabled by ANSYS develops an asset's digital twin to simulate its behavior under various environments and stresses, so as to predict problems before they arise. It relies on information from physical sensors and physics-based analysis based on ANSYS simulation models to produce results in 3D visualization.

"The synthesis of the digital and physical asset will enable companies to capture value throughout the entire product lifecycle," said Hala Zeine, president, Digital Supply Chain and Manufacturing, SAP. "This solution will help equipment operators and service providers to predict and improve asset performance and reliability with engineering insights. A digital twin that ties together engineering models, manufacturing details and operational insights including financial information is unique in the industry."

To see a demonstration of SAP Predictive Engineering Insights enabled by ANSYS, as well as of SAP's broader asset management portfolio, visit the exhibition area at the SAPPHIRE NOW conference.

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Carole Ferrand joins Capgemini as Group Chief Financial Officer

4 June 2018

On June 1, 2018, Carole Ferrand joined Capgemini as Group Chief Financial Officer (CFO). In her capacity as Group CFO, Carole becomes a member of the Group Executive Board and reports to Paul Hermelin, Chairman and CEO. She replaces Aiman Ezzat who is Chief Operating Officer alongside Thierry Delaporte since January 1, 2018.

"Carole has a strong track record in both operational and strategic financial matters. She now leads a world-class finance function at Capgemini and I am very much looking forward to the value that she will bring to the Group as a whole, in building further its leadership position in the market," said Paul Hermelin, Chairman and CEO, Capgemini Group.

"I am delighted to have joined the leadership team of a Group that I know well," said Carole Ferrand, Group CFO, Capgemini Group. "I am looking forward to applying my broad experience in finance to play an instrumental role in supporting the Group's focused development strategy across the globe."

Carole Ferrand's biography
Prior to joining Capgemini, from 2013, Carole held the position of Financial Director at Artémis Group, the holding company of the Pinault family (Kering, FNAC, vineyards), where she was also in charge of strategic and financial support for certain investments. Carole is a director of FNAC and sat on Capgemini's board of directors from May 2016 to May 28, 2018.
In 2011, Carole became Group Chief Financial Officer of the Europacorp Group. Prior to this Carole spent over a decade at Sony: in 2000, she joined Sony France, as Financial Director before becoming Secretary General in 2002.
Carole started her career at PriceWaterhouseCoopers in 1992, where she was an auditor and later a financial advisor in the Transaction Services Division.
Carole is a graduate of the Ecole des Hautes Etudes Commerciales (class of 1992).

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ESI Group announces the nomination of Olfa Zorgati as Chief Financial Officer

4 June 2018

ESI Group announces the appointment of Olfa Zorgati as Chief Financial Officer (CFO), effective June 4, 2018. This nomination, key for the company’s transformation, completes ESI’s Group Executive Committee.

“I’m excited to join ESI Group and be a part of a seasoned team at such a pivotal period for the company on the path of transformation” said Olfa Zorgati. “ESI has a great opportunity in the market as the company accelerates its unique positioning in the Product Performance LifecycleTM market with its solution of Hybrid TwinTM.”

Olfa brings almost 20 years of experience in international management roles; both financial and operational. Most recently with MetaPack, a London-based SaaS business and a global leader in e-commerce delivery management systems, she was in the past two years overseeing all the financial reporting for the company. Prior to this, Olfa was CFO, then Chief Operating Officer (COO), at VentureBeat in San Francisco, USA, the leading source for news & research on technology innovation.

There she played a key role in a business model shift (subscription vs advertising revenues) that led to an exponential growth period. Her focus during those years, was to introduce agile practices and transform internal business processes. Among other positions, she spent 3 years with Ventadis, an independent multi-channel retail group (M6 Group) and 7 years with the Vivendi Group where she held various positions in finance and M&A. Olfa started her career at Societe Generale in M&A.

Olfa holds a Master of Business Administration from HEC Paris, an international business school, and has developed a broad experience, as a transformational and data-driven manager, in e-commerce & Media and in SaaS enabler technology businesses. She has worked in high profile roles for global, multi-billion European companies and fast-growing start-ups and delivered outstanding results in these high pressurized environments.

“Olfa Zorgati will bring the benefit of her experience in financial and operational functions, both in France and internationally. We are delighted that she is joining our top management team, and truly believe that her skills and expertise will prove invaluable to ESI Group as we drive our transformation to become the indisputable Virtual Prototyping partner of our clients in their Industry 4.0 journey. She will lead ESI’s ongoing efforts to foster growth, improve performance, and enhance shareholder value.” commented Alain de Rouvray, Chairman, CEO and founder of ESI Group.

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Gerber Leads the Way in Facilitating On-Demand Textile Supply Chain - Showcases Micro Factory with Three Digital Printing Leaders Within 10 Days

7 June 2018

Increasingly in an on-demand world, consumers expect personalization and immediate delivery when they see what they want. To remain competitive, brands and manufacturers are being compelled to re-examine their processes and find ways to become more agile and remain relevant in a time of ever-changing consumer trends. "We have been investing in and developing technology to help our customers transform and connect their workflows to meet the needs of an on-demand world, enabling a seamless digital print and automated cutting workflow to work with leaders in digital textile printing," said Scott Schinlever, president and COO Automation Solutions at Gerber Technology. "Recently we showcased Gerber's textile workflow and automated cutting in a variety of micro factories with Kornit, EFI™ Reggiani and Mimaki. The strong growth trend in digital textile printing can be accelerated by Gerber's integrated eco-system of software and automated cutting systems, delivering value through connectivity and achieving Industry 4.0 expectations from concept to finished product."

Over the last two weeks, Gerber participated in two global industry events, FESPA in Berlin and Texprocess Americas in Atlanta. At the shows, they demonstrated on-demand manufacturing applications that included their Digital Solutions, integrating data from design to finished product leveraging YuniquePLM® and the AccuMark® Platform, digital printing technologies from three industry leaders, Gerber's Z1 single-ply cutter with ContourVision™ automated scan-to-cut system and both robotic and lean loop sewing operations.

Digitalization and the adoption of Industry 4.0 principles are empowering purchase activated, on-demand manufacturing. Brands and manufacturers are able to respond to demand versus producing to supply. The approach eliminates costly inventory and re-defines just-in-time manufacturing, so production adjusts as demands fluctuate – allowing products to be produced more efficiently and sold at

full retail price without heavy discounting.

The Gerber team is passionate about supporting our customers and their needs as the industry changes. "We are empowering our customers to turn their data into speed, helping them be more agile and get their products to market. We back it up with best in class aftermarket support to ensure maximum productivity and lowest total cost of ownership in the industry," stated Schinlever. "We look forward to continuing to partner with key players in the industry to help our customers compete and win."

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Incorta Integrates SAP® Data Services with Enterprise Analytics Engine to Deliver Real-time Analytics and Query Performance to Customers

4 June 2018

Incorta today announced that it has signed an original equipment manufacturer (OEM) agreement with SAP. Through this agreement, Incorta will offer pre-built integrations to SAP® applications using SAP Data Services software to customers for bringing SAP application data into the Incorta platform for analysis.

The integrated solution is designed for enterprise customers needing to analyze data from multiple enterprise sources—including SAP software—in real time because it eliminates the need for legacy star schemas or data cubes. With this approach, enterprises can unlock the value of their data by using a single platform for analytics and predictive modeling.

“Today’s announcement demonstrates that Incorta is committed to providing customers with the ability to access, combine and analyze data at very high query speeds,” said Osama Elkady, chief executive officer (CEO) for Incorta. “We’re thrilled to partner with SAP and utilize SAP Data Services, one of the best enterprise data management software solutions on the market today when it comes to data integration, quality, and cleansing. Through this OEM agreement, we will help customers leverage SAP Data Services as an ideal path for bringing some of their most valuable business data into Incorta.”

SAP Data Services software helps enterprises access, transform, and connect data, so they can deliver relevant and timely information to critical business functions. The software provides an enterprise information management (EIM) foundation that is intelligent, metadata-driven and open. It offers extensible support of any data volume or variety to support structured, text, Big Data, device, the Internet of Things (IoT), social or spatial data. With SAP Data Services, enterprises can support both operational and analytical data-driven initiatives, and access data regardless of type, domain, or source.

Incorta gives business users the real-time reporting and analytic applications they need by aggregating large, complex business data in real time and eliminating the need to reshape data into analytical formats. Utilizing the industry’s first Direct Data MappingTM engine, Incorta delivers unprecedented join performance, making the data warehouse obsolete. With Incorta, business users are empowered to make better decisions faster by readily and securely accessing up-to-the-minute business data stored across multiple databases and enterprise applications.

“We’re very excited to welcome an innovative company like Incorta into our SAP partner ecosystem,” said Brian Brogan, vice president of SAP’s ISV Partnerships. “The company’s breakthrough Direct Data Mapping technology enables easy analysis of enterprise data volumes in real time, letting enterprise customers overcome a well-recognized and painful problem they’ve been unable to solve until now.”

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Multimillion dollar Siemens' grant puts UniSA students in the Industry 4.0 box seat

6 June 2018

The University of South Australia will be providing its students the opportunity to work with Siemens Product Lifecycle Management software, thanks to a Siemens $450m commercial value grant.

The largest software grant of its kind in Australia, it is part of Siemens' commitment to invest more than $1 billion in advanced PLM software to select universities nationally, ensuring students develop the skills needed to successfully participate in what has been dubbed the fourth industrial revolution or Industry 4.0.

Announced today at UniSA's new futuristic museum, MOD., Siemens chairman and CEO, Jeff Connolly, says the grant reflects Siemens long partnership with the state of South Australia and a commitment to working with great educational institutions to build the workforce of the future.

"I'm delighted to announce the grant of Siemens PLM advanced industrial software with a commercial value of $450 million to UniSA," Connolly says.

"It demonstrates the great partnership we have with the state of South Australia and our commitment to working with great educational institutions to build the workforce of the future," Mr Connolly said.

The grant is part of Siemens' commitment of more than $1 billion in advanced PLM software grants to select universities nationally and will enable students and the University to develop the skills needed to successfully participate in the fourth industrial revolution (Industry 4.0).

Linked to the recommendations and work of the Prime Minister's Industry 4.0 Taskforce – an industry led group established to support improved bilateral relations between Australia and Germany – the grant is the only one awarded in South Australia.

University of South Australia Vice Chancellor Professor David Lloyd says the partnership with engineering giant, Siemens Australia, will provide extraordinary opportunities for UniSA students and for local industry in the State.

"It's exciting to think that our students will soon have access to the same software used to design and develop everything from Space X, the Mars Curiosity Rover, Maserati Ghibli and other world leading innovations such as the digital shipyard for Newport News (US) where aircraft carriers are built," Professor Lloyd says.

"Not only will it give our students experience of an industry 4.0 environment, it will also deliver huge benefits for manufacturing research at UniSA and, for the industry partners we work with every day, to support innovation and enterprise.

"Across defence, space, mining, the environment, and biomedical technology – it will allow us to model and prototype new ideas and give our students experience of advanced technology in the production of things, systems and processes.

"This investment is really farsighted, and we are delighted to be working with Siemens to deliver graduates with the skills and knowledge to shape and transform industry in the future."

The Siemens PLM software grant provides a suite of advanced PLM software and ensures UniSA will have access to the same advanced software, processes and best practices that are used to develop some of the most sophisticated global products and systems in industries including automotive, aerospace, shipbuilding, high-tech electronics and more.

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Purdue Polytechnic Institute and Anark Partner to Deliver Best-In-Class Model-Based Enterprise and Digital Thread Curriculum

7 June 2018

Anark Corporation announced today that it has been selected by the Department of Computer Graphics Technology in the Purdue Polytechnic Institute, one of Purdue University's 10 academic colleges, to provide automated Model-Based Enterprise (MBE) publishing and collaboration software and training material that will provide university students and professional education program participants with access to best-in-class tools, technology and courseware materials.

The Department of Computer Graphics Technology offers an academic major in virtual product integration (VPI), the only one of its kind in the U.S., using industry-class tools and methods, including programs about effective techniques and processes that support modern MBE and Product Lifecycle Management (PLM) environments, the Digital Thread concept, and Internet of Things (IoT) implementation for OEMs and their suppliers. Purdue Polytechnic also houses the PLM Center of Excellence, a high-TRL research center that is focused on the study of digital product and process data, as well as PLM methods and tools.

"We are excited to partner with Anark to further extend Purdue's advanced educational and professional training course offerings that prepare students with access to the tools, technology and expertise they need to successfully deploy high-impact MBE-enabled Digital Thread initiatives within their organizations," said Nathan Hartman, Dauch Family Professor of Advanced Manufacturing, director of the PLM Center of Excellence, and head of the Department of Computer Graphics Technology at Purdue University. "Anark Core and MBEWeb are proven solutions that successfully enable the MBE and Digital Thread applications for many industry-leading manufacturing OEMs and suppliers on a global scale, which are exactly the types of companies for whom our students innovate during their careers."

Anark Core and MBEWeb enable OEMs and their suppliers to transform and publish critical engineering, manufacturing and operational data into role-specific 3D PDF documents and HTML5 web content to empower connected, information-rich data exchange and collaboration on virtually any device along the Digital Thread.

Anark's solutions also provide the most advanced and complete support for powerful, MIL-STD-31000A compliant MBE processes, which enable manufacturers to come to market faster, with higher quality products, at substantially reduced costs.

"Anark is very proud to partner with Purdue Polytechnic Institute to support its advanced educational and professional training programs," said Stephen Collins, president and CEO of Anark. "Purdue is a leading educational institute in the field of Model-Based Enterprise, Digital Thread and IoT, and we look forward to working closely with the faculty to ensure that their students and continuing education

professionals work with the state-of-the-art tools and technologies that successfully empower the digital transformation of many industry-leading global OEMs and their suppliers. These same students will provide Anark with invaluable feedback as we continue to evolve and extend the capabilities of our solutions."

Purdue Polytechnic will deploy Anark Core and MBEWeb as incorporated elements to its engineering and continuing education programs, and the software will also be installed and accessible as part of the new Digital Manufacturing Enterprise Testbed facility at the Indiana Manufacturing Institute. Purdue and Anark will work together to develop new courseware offerings that will prepare students and professionals with specific knowledge and experience required to implement effective MBE and Digital Thread processes and solutions.

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SAP Adds New Industry Solutions, Innovation Services with SAP Leonardo Partner Medallion Initiative

4 June 2018

SAP today announced that it has more than doubled the number of digital innovation solutions and significantly expanded design-led engagement services with the launch of the SAP Leonardo Partner Medallion Initiative.

The new initiative enlists an initial 13 SAP partners to develop and deliver new industry innovation solutions to help customers across the globe innovate faster and with less risk. The announcement was made at the SAP Global Partner Summit, being held June 4, 2018.

SAP Leonardo technologies empower enterprises with intelligent technologies for every business process, to create better outcomes.

The SAP Leonardo Partner Medallion Initiative expands the number of solutions and teams available to organizations seeking to innovate with SAP-certified technology from a global network of trusted providers. It is designed for system integrators and technology providers, and includes both global and regional organizations to serve SAP customers worldwide. Initial partners include ABeam Consulting, Accenture, Capgemini, Deloitte, EY, HCL, Hitachi Consulting, KPIT, Mindtree's SAP practice Bluefin, NTT, PWC, TCS and Wipro.

"The number of organizations seeking transformation is immense," said Mala Anand, president, SAP Leonardo and Data & Insights, SAP. "The SAP Leonardo Partner Medallion Initiative brings the strength of SAP's trusted ecosystem to deliver digital innovation to help our customers solve strategic business problems. Together with our partners, we are enabling industry innovation and offering customers easy, progressive paths to achieve specific use cases with quick time to value."

Under the initiative, SAP provides support and certification for new industry innovation accelerators — collections of tools and materials for specific industries and business functions that can be tailored for each customer in a fixed-time, fixed-scope enablement process. Partners already have introduced 35 industry innovation accelerators, with an additional 43 planned. New solutions from partners address innovation scenarios including connected shelves and inventories for retailers, derailment prevention for railway operators, and cold chain logistics for pharmaceutical, food and beverage, and medical device industries. Additional solutions address business process innovation serving multiple industries,

including supply chain and logistics, digital customer engagement, sales forecasting and cognitive controlling.

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SAP to Team with Accenture, Capgemini and Deloitte to Accelerate Customer Adoption of SAP S/4HANA Cloud in Target Industries

4 June 2018

SAP announced plans to collaborate with Accenture, Capgemini and Deloitte to accelerate customer adoption of SAP S/4HANA Cloud in the process manufacturing, discrete manufacturing and service industries.

Together, the companies intend to develop innovative solutions to deliver on the promise of the intelligent enterprise. Customers will benefit from differentiated industry capabilities and fast innovation cycles with SAP S/4HANA Cloud, SAP's flagship intelligent ERP solution.

The co-development initiatives will cover broad aspects, from working together with pilot customers to joint innovation, development and go-to-market strategies. Key focus areas will include support for industry-specific, next-generation business processes powered by artificial intelligence (AI) as well as automation within SAP S/4HANA Cloud.

Today's announcement underscores SAP's commitment to collaborate closely with partners on open and extensible cloud ERP solutions from SAP, with the goal of serving customers better across industries.

"SAP is working closely with Accenture, Capgemini and Deloitte to help customers in the process manufacturing, discrete manufacturing and service industries become intelligent enterprises by implementing support for a new generation of business processes," said Franck Cohen, president, Digital Core and Industry Solutions, SAP. "With a user experience that no longer requires a keyboard, and manual processes that are automated with the help of artificial intelligence, our customers will be empowered to reimagine their business models while keeping cost to a minimum."

With the deep industry expertise of these global strategic services partners, SAP is addressing its customers' industry-specific demands regarding intelligence and business processes in the following ways.

Accenture and SAP have started work to co-develop and jointly go to market with a solution running on SAP S/4HANA Cloud for the oil and gas industry. The solution will provide intelligent insights through public cloud services to help oil and gas companies significantly cut operational costs and open new revenue opportunities. Accenture will apply its experience from its accomplished multiyear program, which focuses on core and industry development and a go-to-market strategy for SAP S/4HANA. The objective is to develop end-to-end solutions that simplify and fast-track customers' journeys to digital business.

Capgemini and SAP are accelerating a long-term co-development and co-innovation road map for SAP S/4HANA Cloud in discrete manufacturing industries with initial focus on the automotive segment to help customers remain agile in a fast-changing market. The agreement extends the companies' current collaboration in discrete manufacturing industries through the "Fast Digital 4 Discrete" industries initiative to increase focus on SAP S/4HANA Cloud. The initiative is designed to deliver benefits and

value to customers in the areas of the Industrial Internet of Things, smart automation, machine learning and digital twins.

Deloitte and SAP are expanding their collaboration by accelerating market adoption of SAP S/4HANA Cloud in the subsectors of the service and process manufacturing industries. Using early customer validation and investments in SAP S/4HANA and Deloitte's Reimagine Platform, SAP and Deloitte intend to combine cutting-edge technologies – such as machine learning and artificial intelligence – with Deloitte's expertise in industry, business transformation and technology. By doing so, the collaboration plans to deliver innovative solutions to manage exponential data growth, transform digital core capabilities and accelerate customers' digital transformation journeys.

Accenture, Capgemini and Deloitte will be part of a partner panel at the SAPPHIRE NOW conference on Tuesday, June 5 at 3:30 p.m. Eastern Time.

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SORACOM and Mnubo Announce Global Partnership to Bring End-to-End IoT Solutions to Leading Enterprises

5 June 2018

SORACOM Inc. today announced a strategic, global partnership with Mnubo Inc. accelerating the delivery and deployment of turnkey IoT solutions for global enterprises. This alliance will help IoT companies realize faster time-to-value through actionable business use cases on top of an end-to-end, scalable and flexible IoT solution.

SORACOM's platform for IoT applications provides over-the-air connectivity to cloud services via cellular and Low-Power Wide-Area (LPWA) networks. Seamless integration of the SORACOM platform with the Mnubo SmartObjects solution, which transforms IoT data to business outcomes, allows companies implementing IoT to securely connect their equipment and immediately gain business value from AI-driven IoT insights.

Earlier this year mnubo was recognized as a certified partner in Japan and now both companies are taking the partnership to a global level. This partnership will build on the two companies' joint global presence and highly complementary IoT solutions to enable compelling business use cases such as optimizing operational costs by analyzing asset health, improving after-market services based on product usage and performance, boosting satisfaction by understanding customer experience, and enhancing business value through predictive maintenance. Both companies are already working with customers globally such as Yanmar Corporation and others.

"We are delighted to partner with Mnubo and bring AI-based IoT insights to our growing customer base," said SORACOM CEO and co-founder Ken Tamagawa. "Our customer-centric vision strongly aligns with Mnubo's ability to transform IoT data to business outcomes. Together, we are accelerating business value for leading IoT enterprises."

"SORACOM is a strong IoT brand with a market-leading platform for cloud-native IoT connectivity and a broad portfolio of solutions - Mnubo is proud to be a trusted partner," said Mnubo CEO and co-founder Frederic Bastien. "With this partnership, SORACOM and Mnubo will help companies get to market faster with a data-driven IoT strategy focused on business outcomes, ROI-enablement and high-value use cases."

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Events News

Cloudleaf to be Featured in Multiple Presentations at SAPPHIRE NOW® and ASUG Annual Conference

4 June 2018

Cloudleaf, Inc. announced today that it is taking a prominent role at this week's SAPPHIRE NOW® And ASUG Annual Conference, the world's premier business technology event and the largest SAP customer-run conference. The June 5-7 event takes place in Orlando, FL.

Cloudleaf will be demonstrating their Cloudleaf Sensor Fabric™, an end-to-end intelligent sensor network providing location, condition monitoring and path flow analysis for a variety of assets. Organizations & enterprises use Cloudleaf to track their supply chains in real-time.

"Cloudleaf is proud to be presenting Cloudleaf Sensor Fabric™ at multiple forums at one of the world's most important business technology gatherings," said Cloudleaf Chief Revenue Officer David Parker. "Cloudleaf has a leadership presence throughout this event, and we look forward to demonstrating our unsurpassed solutions for enterprises requiring continuous management of assets in motion."

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Experience Smart Virtual Prototyping at the Autonomous Vehicle Technology World Expo

30 May 2018

Who? ESI Group is a leading innovator in Virtual Prototyping software and services for manufacturing industries. Specialist in material physics, ESI has developed a unique proficiency in helping industrial manufacturers replace physical prototypes with virtual prototypes, allowing them to virtually manufacture, assemble, test and pre-certify their future products.

What? Autonomous Vehicle Technology World Expo, event dedicated to autonomous vehicle technologies and services, will take place from June 5-7, 2018 in Stuttgart, Germany.

ESI will attend World Expo to demonstrate how a combination of advanced simulation capabilities and innovative Verification & Validation methods significantly improve the current process for automotive OEM and Tier 1 companies, to support the rapid development of safe and autonomous cars at reduced cost. This Smart Virtual Prototyping methodology also enables testing of autonomous systems via a Virtual-Human-in-the-Loop, anticipating issues linked to human-machine interface to achieve a safe and reliable driving experience. Perception systems are key to developing Autonomous Driving systems without the need for costly physical prototypes, as is the ability to create high-fidelity synthetic data to simulate the output from multiple sensor systems for outdoor scenarios that combine vehicles, obstacles, pedestrians, weather, and road conditions.

Furthermore, when developing new vehicles, Interior Design and Seat Engineers must consider occupant thermal comfort and interior thermal management, as these are key to the efficiency of the

vehicle (especially for an electric vehicle) and to the perceived comfort of the occupant. ESI's solution for Interior Engineering addresses thermal management in addition to occupant safety, opening new doors for innovative car layouts and setting the scene for tomorrow's mobility.

ESI has been working with leading automotive OEM's and their suppliers for over 40 years, delivering solutions that support the development of safe, smart and connected vehicles. At this event, ESI will be located on booth AV 5010, offering visitors and journalists live demos of its sensor design solution and Interior Solution, dedicated to autonomous vehicles.

The ESI team will deliver 3 presentations during the World Expo.

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Keep up with the Latest Innovations Enabling Industry 4.0 at ESI Forums

7 June 2018

ESI Group announces its upcoming ESI Forums 2018, taking place on all continents. In the context of global disruption across industries, OEMs, suppliers and start-ups alike are racing to reap the benefits of digital transformation in their move towards Green, Smart and Connected products. Now more than ever, ESI Forums are an opportunity for Program Managers, and Decision-Makers to learn from their peers, who face similar challenges as they transition into the Industry of the Future. Join us to find out how Smart Virtual Prototyping is enabling successful transformations for the likes of Volkswagen, Renault Nissan, Fiat Chrysler Automotive, Boeing, Airbus, Safran, Framatome, EDF, Caterpillar, Bombardier, and many more.

The season will start with the ESI Forum in China: a two day event held in Beijing that will outline the keys to a successful product engineering strategy; from product inception to manufacturing right-first-time, improving product performance, and piloting performance in operation throughout the entire product life. This Forum will feature no less than 60 customer presentations bearing witness to the successful implementation of Virtual Prototyping throughout China, across all engineering domains and all industrial sectors. Presentations will be delivered in Mandarin Chinese and English, with simultaneous translation provided for the keynote speeches of the plenary session.

The ESI Forum in China will be followed by ESI Forum in Korea, on September 11 in Seoul, ESI Forum in Russia, September 13-14 in St Petersburg, and ESI Forum in Japan on November 15-16 in Tokyo. The last will be ESI's 29th Forum in Japan, best known locally as "PUCA". All events will be open to international visitors and presentations available in English or translated.

ESI will showcase its solutions during worldwide conferences

On September 18-20, in Chicago, IL, USA, the ESI IC.IDO Summit 2018 will demonstrate how engineering teams leverage collaborative "immersive design reviews", to take into consideration the full scope of their industrial product development and evaluate Human-Centric process interactions. Thanks to Virtual Reality, organizations recognize potential assembly or maintenance risks that may arise and adjust the design when needed to prevent issues from escalating during production and subsequent servicing. As a result, engineering teams can make better informed decisions early and ultimately realize significant reductions in late and costly engineering change orders. Through presentations, conversations and demonstrations, attendees will discover how VR helps leading industrial players ─ such as Boeing, Safran, Ford, and many more ─ eliminate unexpected design errors and their consequences, deliver

innovation, create safer work environments, improve on time delivery, deliver repeatable quality, and ultimately improve product profitability. The event will end with a visit and tour of the Caterpillar facility in Peoria, Illinois.

On October 23-25, in Hamburg, Germany, ESI will host the 6th OpenFOAM Conference. Meet there if you are an aficionado of the popular, open-source CFD code, OpenFOAM®, or seek support to implement the software at an industrial scale. Interact with users and developers across the OpenFOAM community.

On November 8-9, in Dresden, Germany, the ESI ITI team will host ESI SimulationX Conference 2018. Attendees will get an overview of many different applications of the system simulation software, SimulationX, in diverse industries. SimulationX provides efficient analysis from concept to detailed, real-time simulations, to support its customers in decision making during product development process, sales, operations and training.

Finally, on Nov 20, in Paris, France, ESI will close its program of conferences with the Scilab Conference 2018, previously known as ScilabTec. Scilab is a powerful, free, open source programming language with a rich collection of associated numerical algorithms that address many aspects of scientific computing. Join the event and meet the team responsible for the software and learn how they are building on 20 years of R&D to deliver and deploy powerful simulation applications.

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Financial News

Dassault Systèmes Schedules its Capital Markets Day 2018 on June 15, 2018

8 June 2018

Dassault Systèmes will host its Capital Markets Day 2018, on Friday, June 15, 2018, to present the Company's strategy and growth objectives.

The on demand webcast of the event will be available in the afternoon of June 15, 2018 by accessing Dassault Systèmes' website at http://www.3ds.com/investors/

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Implementation Investments

Centric PLM Helps Blue Sky Soar

5 June 2018

Centric Software announces that Blue Sky, creator of planners and notebooks sold through major retailers, has successfully gone live with Centric Software's Product Lifecycle Management (PLM) solution.

California-based Blue Sky produces stylish, high quality paper products to help people plan their day and organize their time. Blue Sky products are sold in thousands of locations across the US, including Target, Staples, Walgreens, Amazon, FedEx Office, Walmart and Office Depot. Blue Sky offers hundreds of products and continues to grow rapidly.

To help manage the increased complexity that comes with growth, Blue Sky chose Centric SMB, Centric's cloud-based, SaaS PLM solution for small and medium sized brands, because they knew it would not only suit their current needs but that the solution can be evolved as the company continues to grow.

"When I arrived at Blue Sky two years ago, one of my first tasks was to create a master data Excel sheet of all our products, past and present," explains Jennifer Vanderburg, Planning and Merchandising Manager at Blue Sky. "This would have been a mammoth task and the Excel sheet would have to be constantly updated by different users. After some discussion, we decided that it would be better to implement a PLM system rather than rely on a spreadsheet to effectively manage and update our product database."

Blue Sky began their search for a PLM solution and chose Centric because their level of support and customer service stood out against other suppliers.

Echoing the experience of other Centric Software customers, Vanderburg explains, "An important part of the selection process was the attention to detail that the Centric team brought to the table. Centric was consistently available to answer our questions, listen to suggestions, make recommendations and field our ideas."

Second to Centric's commitment to customer service, scalability topped the list of attributes that Blue Sky needed.

As Vanderburg says, "Centric PLM helps us adhere to our mission, which is to deliver high quality merchandise on time and with style, by improving the product development process, increasing our speed to market and making information crystal clear to everyone who touches each product, while eliminating unnecessary meetings and emails. This speed gives us an edge in a competitive market. We're growing fast, and it's important that we'll be able to scale up when the time is right."

As Vanderburg concludes, it was clear from the beginning that Centric offered a long-term partnership, rather than a quick sale.

"Centric has been a partner every step of the way, making sure their product is tailored to our organization and supports the way we work. We're very excited about the project and the partnership," she says.

"We're delighted Blue Sky chose Centric SMB and we are proud to partner with them," says Chris Groves, President and CEO of Centric Software. "Blue Sky witnessing streamlined product development, even faster time to market and also improved productivity are a testimony to Centric's capabilities and the strength of our partnership. We look forward to continuing to partner with them as they continue to grow."

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Tractor Supply Selects CBX Software to Scale Private Label Growth

5 June 2018

Tractor Supply Company has selected the CBX Cloud platform to streamline global product development, sourcing operations and vendor collaboration.

Tractor Supply Company (also referred to as TSC) owns and operates over 1,600 stores in 49 states supplying basic maintenance products to home, land, pet and animal owners. With a focus to scale private label, increase digital sales and enhance the customer experience, the company was seeking a solution to electronically bridge the gap between Product Lifecycle Management (PLM) and their existing Product Information Management (PIM) system, to allow complete data accuracy in all channels of the business. The CBX platform will benefit members across several departments including product development, merchandising, sourcing, master data management, as well as the extended vendor community.

"With the growth of our private label assortments, we're excited to have the CBX platform be the system of record, to simplify and automate our product development and sourcing operations resulting in a smarter supply chain for product development, vendor collaboration and quotation, all the way to a final vendor commitment," said, Ken Strait - Tractor Supply Company Vice President, Product Development and Strategic Sourcing.

To ensure rapid adoption and time-to-value, Tractor Supply will implement the CBX platform out of the box configuration designed for General Merchandise and Do-it-Yourself (DIY) retailers. CBX allows Tractor Supply to dynamically track the product development critical path, resulting in a faster more robust supply chain, saving hours of manual data entry and eliminating the sending/tracking of Excel attachments through multiple emails.

"Speed to market and data accuracy are both key factors in today's retail landscape. Utilizing the CBX platform, key product data and attributes are available much earlier in the planning and design phases. Data flows electronically into the PIM system leaving Tractor Supply with no data entry and no redundancy which ultimately compresses the supply chain ensuring products to become available to customers faster," says Eric Linxwiler, CBX Software Senior Vice President, Americas.

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Product News

Aras Introduces Flexible Effectivity to Solve How Manufacturers Manage Complex Effectivity at Scale

6 June 2018

Aras®, the leader in open product lifecycle management (PLM) software for the enterprise, today announced availability of version 11 SP14 of the Aras PLM Platform, which features Effectivity Services. Aras delivers a flexible, multi-factor approach to effectivity to enable manufacturers to manage complex effectivity at scale. Using Aras' Effectivity Services, organizations are able to create and apply customized effectivity rules and manage all variants in a single, dynamic product structure. The result is a massively simplified approach for engineering teams to specify and manage large

numbers of variants and customized product configurations, collaborate on designs, and incorporate effectivity into the Digital Thread.

Flexible Effectivity a Requirement for Complex Products

For low-volume manufacturers developing individual tail numbers and hull numbers to high-volume manufacturers tracking date or batch, effectivity – when and how engineering change goes into effect – is critical for managing product complexity, coordinating design and manufacturing teams, and customizing products to meet customer requirements. Each organization also requires the ability to customize the way effectivity is implemented and apply it differently depending on its business.

To date, managing effectivity has been a stumbling block for organizations due to inadequate and disconnected tools. Existing enterprise software in the market has been inflexible and unable to support organizations' individual requirements. As a result, manufacturers have resorted to manual processes and spreadsheets that expand rather than reduce complexity. These manual approaches lead to extensive reconciliation and increase risk of error, delays, and impact to quality and customer satisfaction.

Platform Approach for Scalable Effectivity Across Disciplines

The Aras PLM Platform approach overcomes these problems by offering flexible Effectivity Services that are inherently integrated with configuration, change, and variant management. A single platform increases cross-functional collaboration by improving visibility for teams, bridging process gaps, and eliminating inefficiencies in managing data in multiple applications and tools. Aras simplifies how organizations manage effectivity by allowing it to be managed as part of a single data structure rather than multiple disconnected structures.

Aras' flexible effectivity delivers to teams:

- Support for modeling effectivity factors, e.g., date, unit, factory, region or custom criteria in a generic way for application to products, product lines, or batches
- Ability to apply designated effectivity factors to any data structure, including BOMs, variability rules, technical documentation, etc.
- A common product structure – and its effectivity – to validate engineering changes and decisions across design domains during development and into manufacturing
- An effectivity engine that quickly resolves structures for any given effectivity criteria

Using Aras' flexible Effectivity Service, organizations can enable engineer-to-order (ETO), configure-to-order (CTO), and assemble-to-order (ATO) development and manufacturing.

To learn more about Aras' flexible Effectivity Services, teams can view the Aras Demo Series Effectivity Services and download the sample application.

Availability

Aras Innovator V11 SP14 software is available immediately to enterprise subscribers for no additional charge. All software upgrades, regardless of customization, are also performed by Aras as part of enterprise subscriptions.

Supporting Quote:

"Effectivity is a critical overlay of configuration and variant management and is a centerpiece for manufacturers developing complex products on a custom basis. The hard-coded way that legacy systems

handle effectivity is impractical, and customers have been asking for a new approach. With our platform-based approach, effectivity is inherently integrated with configuration, change, and variant management and provides the flexibility organizations require to manage effectivity at scale." – John Sperling, VP of Product Management, Aras

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Arena Solutions Partners with eBOM to Launch Doc Connect for Arena, Streamlining Document Management

6 June 2018

Arena Solutions *today announced its partnership with* eBOM *to launch Doc Connect for Arena and help streamline document management. Doc Connect for Arena is an easy to deploy and use solution that seamlessly integrates Arena with Microsoft Word® to enable users to quickly create, edit, review, and release Word documents controlled in Arena.*

"As organizations strive to accelerate new product introduction and improve quality, document management can be a bottleneck to innovation," explains Craig Livingston, CEO of Arena Solutions. "Microsoft Word is the most widely used authoring tool in product development and delivery. Our partnership with eBOM creates an elegant connection between Arena and Word that allows product teams to efficiently author and manage critical product and quality documentation while staying in Microsoft Word."

Doc Connect key benefits include:

- Ensure product and quality document standardization: With Arena revision-controlled Word templates, teams can quickly author new product and quality documentation in Word, add new files in Arena, and continue the document collaboration process.
- Increase productivity: Improve team efficiency with easy, fast transitions between Microsoft Word and Arena for document control and collaboration.
- Improve document management processes: Connect with Arena's document management capabilities for formal review and release and enable full product team access to the Word documents and their release status.

"This integration with Arena makes it easier to control critical product and quality documentation," notes Daniel Nihlén, CEO at eBOM. "Doc Connect for Arena, now available in the Microsoft Office Store®, reduces personnel training and connects the user to robust documentation management capabilities."

Doc Connect for Arena is currently available in the Microsoft Office Store®.

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Collaboration Between Oracle CPQ Cloud and Atlatl's Visual and Augmented Reality Product

5 June 2018

Atlatl Software today announced a collaboration with Oracle Configure, Price, Quote (CPQ) Cloud, part of the Oracle Customer Experience (CX) Cloud Suite. Atlatl's product offerings simplify the manufacturing sales process through rules-based engineering software and visual configuration of manufacturing product offerings.

Atlatl is leading the evolution of manufacturing sales with their innovative Visual, 3D and AR configurator solutions. Atlatl is working with Oracle to provide customers a near-seamless visualization product integration with Oracle CPQ Cloud in order to create an immersive, interactive sales environment.

"We're excited to work with Atlatl to offer our customers integrated 3D and augmented reality configuration with Oracle CPQ Cloud. Our collaboration allows our customers to deliver a compelling visual configuration experience with game-changing augmented reality," said Christopher Shutts, vice president CPQ cloud development at Oracle.

"Working with Oracle CPQ Cloud is an exciting step for Atlatl. Our product offerings complement Oracle's already robust software to provide customers with one of the most comprehensive sales enablement solutions currently on the market," said Susan Burris, vice president of enterprise at Atlatl Software.

Atlatl has been mentioned in Inc.com [and other outlets], solidifying their place among Visual, 3D and Augmented Reality Configurator industry giants. Being a new, growing company listed alongside mature, established vendors is an incredible opportunity and solidifies Atlatl's offering as industry leading.

"The recent attention Atlatl has garnered is both validating and motivating. The visual shift in the B2B market is coinciding with the advent of new technology, like Atlatl's," added Marc Murphy, CEO of Atlatl Software.

Oracle CPQ Cloud is part of the Oracle CX Cloud Suite, which empowers organizations to take a smarter approach to customer experience management and business transformation initiatives. By providing a trusted business platform that connects data, experiences and outcomes, Oracle CX Cloud Suite helps customers reduce IT complexity, deliver innovative customer experiences and achieve predictable and tangible business results.

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FARO® Introduces As-Built Software Platform for 3D Digital Modeling

8 June 2018

FARO announces the availability of the FARO® As-Built™ software platform that enables efficient and cost effective transfer of 3D reality capture into Autodesk® design tools to create ready to use CAD and Building Information Modeling (BIM) deliverables. As-Built is specifically designed to minimize the effort and time required to create as-built documentation, which is the main task across AEC professionals in the building, facility and infrastructure design phases.

This comprehensive and innovative platform seamlessly integrates processed 3D data coming from the FARO SCENE software platform and can then support point cloud modelling (*i.e. the set of data points acquired by a 3D laser scanner that are then displayed as a visual representation of an object or area*)

for the latest 2019 Autodesk design tools. The FARO As-Built platform offers three powerful options:

- *As-Built™ for AutoCAD® Software*
- *As-Built™ for Autodesk® Revit®*
- *As-Built™ Suite – includes both As-Built for AutoCAD® Software and As-Built for Autodesk® Revit®*

The full functionality of PointSense for AutoCAD solutions, all previous standalone AutoCAD plug-ins and PointSense for Revit, respectively are now migrated into the As-Built platform. Additionally, As-Built is available across a broad series of languages, including French, Italian, Spanish, Portuguese, Chinese, Japanese, English and German.

As-Built for AutoCAD Software

- *Best in Class Usability:* Users now have access to a common graphical user interface that provides a single entry point for all FARO features and functionality across the entire AutoCAD platform. This enables new users to get up to speed quickly and immediately begin to leverage the power of As-Built.
- *Unique Performance and Value:* AEC professionals benefit from a single point cloud-modelling platform that not only offers versatile tools that span different industries such as Architecture, Civil/Survey, Oil & Gas, and Facility Management but also total stations and UAV sensors. There is no longer a need to purchase or support separate total station software. Additionally, it is now easy to combine a terrestrial view with an aerial view that provides an even better digital representation of the real world.

As-Built for Autodesk Revit

- *Confidence in Accuracy: As-Built for Autodesk Revit* , like its predecessor PointSense for Revit, accelerates Scan-To-BIM workflows and includes powerful features such as surface analysis by *Levels of Accuracy* standards as defined by the U.S. Institute of Building Documentation, which enables users to more confidently validate the accuracy of the as-built model compared to the relevant point cloud.

“We have been uniquely focused on delivering 3D digital modeling solutions that address the key pain points of AEC professionals; specifically waste and project delays that lower productivity and increase operational costs,” stated Andreas Gerster, Vice President Global Construction BIM. “As-Built is both a powerful tool for Autodesk users who use FARO Focus and Freestyle solutions and also for other 3rd party 3D imaging hardware products.”

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HP and Siemens expand opportunities for 3D design and additive manufacturing innovation

4 June 2018

Today at Siemens PLM Connection Americas 2018, one of the largest events for Siemens’ PLM software users, HP Inc. and Siemens expanded their longstanding collaboration to enable even more advanced functionality across a broader set of Siemens PLM software to change the way users can design and manufacture with HP’s Multi Jet Fusion 3D printing technology.

Siemens' NX and Solid Edge Software deliver support for Full-Color 3D Printing Capabilities through HP Multi Jet Fusion

With the latest releases, Siemens, a leader in digital innovation software, and HP, the global industry leader in 3D printing, will enable users of Siemens' NX™ software and Solid Edge®software to design and produce full color 3D-printed parts. HP's Jet Fusion 3D 300/500 series is the industry's first 3D printing solution for the production of engineering-grade, functional parts in full color, black or white – with voxel-level control – in a fraction of the time of other solutions. The Jet Fusion 3D 300/500 series also supports the leading color file formats including 3MF, enabling designers to easily produce the color parts they want with a reliable workflow. Users taking advantage of NX and Solid Edge for HP's Multi Jet Fusion technology will have access to 3MF files ready for HP's entire portfolio of printers including the industrial-grade HP Jet Fusion 4200/4210 and 300/500 solutions.

"Our users will now be able to apply the power and flexibility of Siemens' NX and Solid Edge product design software to HP's groundbreaking 3D printing technology, opening a world of new design possibilities with the availability of full-color parts," said Tony Hemmelgarn, president and CEO, Siemens PLM Software. "We share HP's vision that 3D printing is empowering companies to reinvent their product lifecycles to prosper and thrive in manufacturing's all-digital future. Expanding our partnership with HP allows us to continue to elevate additive manufacturing for end-use parts at industrial scale."

The combination of the two leading digital manufacturing technologies dramatically expands the potential applications for Siemens' market-leading digital innovation software and HP's disruptive Multi Jet Fusion 3D printing technology. Customers will have the ability to quickly and economically prototype and produce new designs and end-part applications with advanced voxel capabilities. In addition, the collaboration creates new opportunities to accelerate the adoption of 3D printing at an industrial scale for customers and partners that participate in Siemens' Additive Manufacturing Network.

"Adding the full-color capabilities of HP's expanded Multi Jet Fusion platform to Siemens' market-leading design and manufacturing solutions creates an immense new set of possibilities for products and applications," said Stephen Nigro, President of 3D Printing, HP Inc. "It is exciting to deliver the power of our technologies to customers large and small, fundamentally changing the 3D printing end-to-end process, from design to prototyping and ultimately manufacturing. This is another pivotal step not just for our companies, but for the entire global manufacturing ecosystem, as together with Siemens we change the way the world designs and manufactures."

Multi Jet Fusion 3D Technology Showcased in Siemens' Additive Manufacturing Experience Center

HP's Multi Jet Fusion 3D printing technology will also be showcased as a foundational 3D printing platform in Siemens' Additive Manufacturing Experience Center in Erlangen, Germany, which invites customers to discover the latest additive manufacturing technologies and their applications first-hand in a design and manufacturing showroom environment.

Siemens and HP share the objective to accelerate the digital transformation of the manufacturing industry, providing all of the necessary capabilities, from generative design for product innovation through 3D printing for industrial-scale manufacturing. Through generative design, companies can automate innovative designs directly from functional requirements which can result in enhanced functional performance for parts and products. Using HP Multi Jet Fusion technology, companies can manufacture these innovative parts more economically at larger production volume. Together, HP's 3D

printing solutions and Siemens' technology combine in a single integrated solution that enables businesses to reimagine products, reinvent manufacturing and rethink business models.

Changing the Way the World Designs and Manufactures
Stephen Nigro, president of HP 3D Printing, will join Robert Jones, executive vice president of global sales and services for Siemens PLM Software, on the PLM Connection mainstage on Monday, June 4 at 5:00 p.m. to share more about these expanded offerings for Siemens' PLM users.

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IMAGINiT Technologies Develops New Pulse Platform to Integrate Disparate Systems

6 June 2018

Laborious and manual processes to share data between independent software programs is not ideal. Today, IMAGINiT Technologies' new Pulse integration platform enables design engineers and architects to share data from any on-premises or cloud product such as Autodesk Vault and Autodesk Fusion Lifecycle.

"With IMAGINiT Pulse, we leveraged our team's deep experience in systems integration consulting to create a cost effective, yet highly robust middleware platform to improve communication between software systems," says Bill Zavadil, senior vice president of professional services, IMAGINiT Technologies. "Integrations connecting software such as Autodesk BIM 360 Operations and BuildingLink enable our customers to focus on high value tasks instead of worrying about how to export or re-enter data between their systems."

IMAGINiT Pulse Features
IMAGINiT Pulse is the result of continuous innovation, research and development providing Product Lifecycle Management (PLM) and Building Lifecycle Management (BLM) professionals with smart, intuitive system integration. IMAGINiT Pulse connects many types of business systems with different platforms, programming languages or Application Programming Interfaces (API).

IMAGINiT Pulse benefits include:

- Connectors for Autodesk Vault, Autodesk Fusion Lifecycle, Autodesk BIM 360 Operations and BuildingLink and other systems, allow users to automatically flow information from one software program to another. For example, individuals involved in enterprise resource planning and PLM may need to seamlessly transfer certain data in a specific format from Fusion Lifecycle to Vault.
- Real-time visibility of data, through an easy to read dashboard, allows users to understand exactly what information is being transferred, monitor each step in the transfer process and ensure the security and consistency of the data between the two systems.
- Configurability gives users control over information being transferred, the systems it is being transferred between and the format in which it is being transferred – all without needing a dedicated development resource on staff. IMAGINiT technical professionals can assist Pulse users to define what data must move, in what direction, the format, and the reaction it triggers upon arrival at the destination software system.

IMAGINiT Pulse Live Demonstrations

Learn about the value IMAGINiT Pulse provides to project teams during a live webcast on June 21 at 1:00 PM (Eastern Time). Attendance is free, but advanced registration is required.

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IMAGINiT Technologies Releases 2019 IMAGINiT Clarity Family of Products

7 June 2018

IMAGINiT Technologies' latest release of the IMAGINiT Clarity 2019 suite of products accelerates success for Building Information Modelling (BIM) teams in today's data driven world and provides a new way for project teams to access and manage Autodesk Revit software model data. A new dashboard and integration with Autodesk Dynamo allows BIM teams access to more than 55 metrics across multiple projects enabling collaboration between project partners.

"Our team took a hard look at what insights customers truly need to quickly address potential issues within the model and to improve their team's productivity," says Bill Zavadil, senior vice president of professional services, IMAGINiT Technologies. "By unlocking access to important model data and offering integration with Autodesk BIM 360, our latest release of IMAGINiT Clarity gives BIM coordinators more control over their projects."

Key New Features

IMAGINiT Clarity is now compatible with Revit 2019 and previous versions of Autodesk Revit, as well as BIM 360 software, and includes several new features.

- A New High-Level Dashboard allows BIM coordinators to view meaningful data on one screen to understand and address problems quickly. On the dashboard, user-defined ranges identify issues in red and yellow allowing BIM Coordinators to easily see trends across multiple models and projects and address any anomalies.
- Clarity/Dynamo Integration uses customized Dynamo nodes to access model metrics that are not currently in IMAGINiT's list of 55 metrics and draws them into the Clarity 2019 dashboard. Customized Dynamo scripting can also make the metrics available to every user directly on the opening page of the Revit model.
- Integration with BIM 360 offers flexibility to project partners by giving each team a designated area to store their updates to the model. Teams can then decide whether they want to pull in work from other project partners or share their work with them based on key milestones.
- Additional Task Management Enhancements such as the ability to print a hard copy as well as new integration with SharePoint streamline the Clarity environment and enrich ease of use for BIM team members.

On Demand Product Demonstration

Learn about the value that IMAGINiT's Clarity software provides in this one hour on-demand presentation. During the session, IMAGINiT experts demonstrate the latest enhancements and hottest features.

For more information on IMAGINiT's Clarity software as well as a complete range of BIM technology solutions, visit www.imaginit.com/clarity.

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Innovit Launches GDSN Multi-Connector to Achieve Global and Local GS1 Data Syndication

4 June 2018

Innovit today announced the launch of its GDSN Multi-Connector solution for the Global Data Synchronization Network. The GDSN Multi-Connector overcomes complex global challenges faced by multi-national suppliers by allowing these companies to implement a "single global system" that is fully integrated to internal source systems for publishing product data to multiple GDSN data pools simultaneously.

Innovit's GDSN Multi-Connector is a solution that is certified by the major GDSN-compliant data pools. With Innovit's GDSN solution, suppliers and brand owners automatically get a pre-packaged list of attributes, code lists and validations for publication to their chosen data pools and target markets. This helps reduce operating costs, improve data quality, and streamline data governance processes by replacing the multitude of individual "connectors" to different data pools with a single, global GDSN solution that validates, converts and publishes item and pricing data to the respective data pools operating in different target markets across the globe.

"Most global suppliers today find themselves publishing to multiple data pools to support different regions. This means they need to manage separately the different local attributes, code lists and validation rules of their trading partners and publish the data using each data pool's local data dictionary and messaging formats," said Bang Chau, Co-Founder and Vice President of Business Development. "Our solution paves the way for multi-national organizations to achieve compliance with both global and local data requirements while improving trading partner collaboration and supply chain efficiency."

Innovit's GDSN Multi-Connector automates the publication of item and price data in the specific local data dictionary and messaging protocol of each data pool. A complete message exchange history is also stored in Innovit's solution to provide organizations full visibility and traceability of their data syndication history with their trading partners.

The company will be showcasing the new solution at their booth 32 during GS1 Connect 2018 in Phoenix, Ariz. June 5-7. GS1 Connect 2018 is the industry's annual conference to discuss best practices and showcase GS1's benefits across the data standards landscape. For more information on Innovit's GDSN Multi-Connector solution, visit here: http://www.innovit.com/how-we-can-help/gdsn-connectivity/.

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Lantek MES Manager provides companies with an easy way to trace production and get on the road to Industry 4.0

6 June 2018

Implementing Industry 4.0 can seem daunting for sheet metal companies. However, Lantek has some software tools which provide the first steps, delivering practical and relevant solutions at an affordable cost, aimed at producing an immediate impact on efficiency and customer satisfaction.

With Lantek MES Manager manufacturing execution system, engineers can upload a bill of materials for the products being manufactured including parts and subassemblies. Parts are then filtered according to material type and thickness ready for nesting in Lantek Expert CAD/CAM software. At this stage additional parts from other jobs or remanufactured parts can be added to the nest, optimising material utilisation.

Within Lantek MES Manager, the full sequence of operations required for the manufacture of each part or subassembly is stored. This can include for example, laser cutting, punching, bending, assembly and painting.

On the shop floor Lantek MES Wos resides on standard touch screen computers or tablets for data capture and to provide operators with details of the sequence of manufacturing operations. Links to the machines record start and finish times for cutting, while for other tasks employees can log on to jobs and operations recording the progress of each part around the workshop in a paperless environment.

Links back to Lantek MES Manager make this information available in report form so that managers can see exactly where parts are in the production process in real time. With this live information, companies can assess and improve the efficiency of machinery and processes, ensure parts are delivered on time, quickly detect delays and cost overruns and provide customers with accurate information about the progress of their orders.

For manufacturers with an existing ERP or sales order processing system, data can be transferred into and out of Lantek MES Manager, making use of the investment in existing technology. However, companies also have the option of expanding the system with Lantek's Integra software. This system provides wide ranging functionality including quotation and CRM capabilities, highly accurate costings, using the intelligence of Lantek Expert CADCAM, as well as stock management, documentation and invoicing and control of multi-site operations.

Taking the first steps towards Industry 4.0 with Lantek MES Manager and Lantek MES Wos is easy and will deliver traceability and transparency in manufacturing. Areas for efficiency improvement will be easier find and test for effectiveness, customers will be kept better informed and hence more loyal and the headache of controlling production will be a thing of the past.

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Materialise Announces Partnership with HCL Technologies on Platform for Hybrid Manufacturing

4 June 2018

Materialise has partnered with HCL Technologies (HCL) to develop a platform that provides increased integration for hybrid manufacturing. With this collaboration, CAMWorksR software from HCL will be Powered by Materialise AM technology to facilitate the production of metal parts, combining the benefits of AM freedom of design with the speed and accuracy of CNC machining. The partnership also represents the first initiative to provide an integrated CAD/CAM solution for hybrid manufacturing in a SOLIDWORKSR environment. This new technology is expected to be available for release later this year.

Hybrid manufacturing is a technology that bridges the benefits of subtractive and additive processes to produce parts of complex design and close tolerance. The integration of AM and CAM (Computer Aided Manufacturing) software in one platform will facilitate the traceability of the production process while saving redundant manual work. Users of the new CAMWorks AM module Powered by

Materialise, will be able to create support structures directly in CAMWorks and interface with the main metal printers via the Materialise Build Processor.

"The market space and applicability of the Additive Manufacturing technology has been growing dramatically in the past 5 years. Integration with current manufacturing systems is the next step to unlock digital transformations in manufacturing," says Stefaan Motte, Vice President of Software at Materialise. "This requires in-depth understanding of both subtractive and additive processes. We are certain that companies adopting hybrid manufacturing will benefit greatly from this collaboration, which combines our 30 years of experience in AM with the CAM expertise of HCL."

GH Rao, President of Engineering and R&D Services (ERS) at HCL Technologies said "We are very excited with the new partnership and the potential hybrid manufacturing offers to the future of computer-aided design and manufacturing. By combining advanced integrated CAM technology from HCL with the innovative 3D printing technology from Materialise, we look forward to enabling companies to create innovative products which can be brought to the market faster and at a lower cost."

Materialise, a global leader in 3D printing software and services, was founded in 1990 and has been enabling companies all over the world to explore the extraordinary potential of 3D Printing. The Materialise Magics 3D Print Suite provides users with tools of unparalleled functionality to prepare, optimize, and manage the full Additive Manufacturing (AM) process to get the most out of their 3D printers. Materialise is also a leading additive manufacturing service provider and offers design and engineering, co-creation, and rapid prototyping services as well as additive software solutions for specific medical applications.

The portfolio of HCL Technologies includes IP products such as CAMWorks®, DFMPro®, Glovius, etc. Recently released SOLIDWORKS® CAM is Powered by CAMWorks and is a powerful, fully embedded CAM (Computer Aided Manufacturing) system included in the latest release of SOLIDWORKS® 2018. CAMWorks extends the SOLIDWORKS Smart Manufacturing ecosystem by providing the most advanced technology available for 3, 4, and 5 axis milling, turning, and mill-turn CNC programming directly inside SOLIDWORKS; and DFMPro is the most advanced automatic design for manufacturability assessment tool available.

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Mentor extends Capital for efficient design of SAE J1939-based CAN networks

4 June 2018

Mentor, a Siemens business, today introduced Capital® Systems Networks™ – an advanced software tool engineered to speed and simplify the creation of in-vehicle Controller Area Network (CAN) communications networks based on the SAE J1939 standard. The solution provides proven, powerful technology to help engineers rapidly develop, optimize and validate J1939 networks.

Commonly deployed in heavy-duty commercial vehicles such as trucks, buses and off-road vehicles, SAE J1939 is a data networking standard used for in-vehicle communications and diagnostics. Commercial vehicles may incorporate as many as six separate CAN networks, requiring new designs and rework for each new vehicle model.

As the number of processors, sensors, and electronic actuators deployed in commercial vehicles rises with each model-year, so too does the complexity of designing the data networks used to connect them.

Despite this rising complexity, a lack of robust network design tools often forces engineers to rely on rudimentary, maintenance-intensive technologies such as spreadsheets incorporating in-house macros.

Designed to address these challenges, the Capital Systems Networks product enables holistic network development. As part of the extensive Capital tool suite, the new Mentor tool integrates network and electrical design within a single environment, streamlining development of functional and physical designs for J1939 networks. By supporting a generative design process within a coherent electric and electronic (E/E) architecture, Capital Systems Networks helps dramatically speed network design, validation and optimization.

The Capital Systems Networks tool includes a robust library and unified dictionary of SAE J1939 signals, functions and features. This allows designs, ECUs, and even entire networks to be reused and tailored for specific vehicle models and variants.

“Capital Systems Networks is a sophisticated tool that addresses the massive complexity associated with today’s automotive network designs,” said Martin O’Brien, vice president and general manager of Mentor’s Integrated Electrical Systems Division. “Designed for optimal scalability and re-usability, Capital Systems Networks’ model-based solution enables a generative design approach offering the potential for 90 percent design efficiency improvement for J1939-based CAN networks, while at the same time handling several thousands of signals.”

“Capital supports advanced platform architecture exploration, allowing us to generate rapid iterations and evaluate different implementation options directly within the design environment,” said Rosa Talarico, CVPD ES system integration, networking & methodologies manager for CNHi. “This functionality, together with Capital’s data reusability and scalability across multiple abstractions, allows us to dramatically reduce design cycles and speed time to market.”

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New Addition to C3D Toolkit Transforms Meshes to Solids

4 June 2018

C3D Labs is pleased to announce that it is developing a new product to transform polygonal models into boundary representation (b-rep) bodies. The new module, named C3D Mesh2Brep, will be added to the C3D Toolkit and is designed to work together with the C3D Modeler geometric kernel.

The new development was first revealed during the C3Days conference, held in May in Moscow. C3Days is the annual conference for engineering software developers, and is organized by C3D Labs. Among the international and Russian customers in attendance this year were Altium, ASCON, Nanosoft, Eremex, LEDAS, Renga Software, and Skoltech.

B-rep is the primary representation method for most existing geometric modeling systems. Polygonal models are most often obtained from 3D scanning and non-CAD design systems. With C3D Mesh2Brep, CAD developers will be able to transform polygonal models into b-rep bodies. The resulting b-rep model then allows users to employ CAD tools to make changes (such as Boolean operations and chamfers), and to generate additional data, such as through projections and sections.

There are many useful applications of C3D Mesh2Brep. One possible use is in the area of reverse engineering, which involves 3D-scanning a part and then turning it into an editable CAD model. In CAE

systems, developers could use the Mesh2Brep module to process the results of topological optimization. Computer graphics designers could use the new module for grid smoothing, decimation, and applying compression algorithms.

"Our new C3D Mesh2Brep module has two main modes: fully automatic, and interactive", said Andrey Tumanin, Lead Developer of the C3D Modeler geometric kernel. "Automatic mode generates acceptable results for high-quality polygon grids, which are triangulations of CAD models that mostly contain elementary surfaces. If, however, a polygon grid is constructed from 3D object scans and so contains general surfaces, then the user will have to be involved in the process."

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SAP Galvanizes the Enterprise with Intelligent New Products and Choice

6 June 2018

SAP today announced new products and partnerships to enable enterprises to become more intelligent, with expanded capabilities from advanced technologies such as conversational artificial intelligence (AI), blockchain and analytics. SAP also announced that SAP Cloud Platform is now available on all major cloud infrastructure providers, living up to its promise to be the agnostic cloud platform to better serve customers.

- Since launching a year ago, SAP Leonardo technical capabilities have helped hundreds of customers innovate. With SAP Leonardo, customers have embedded cutting-edge technologies into their processes to improve workflows and make enterprises more efficient.
- SAP Conversational AI enables companies to develop intelligent chatbots. The service includes a powerful end-to-end toolkit for training, building and monitoring chatbots. These chatbots can be integrated with SAP and non-SAP systems and are available as preconfigured industry-specific bots. So far, users have built 60,000 SAP Conversational AI chatbots. France's railway company SNCF and telecommunications provider SFR already are using SAP Conversational AI to improve customer service and target younger audiences.
- SAP Leonardo Machine Learning capabilities are now embedded in applications across the SAP portfolio, including SAP S/4HANA Cloud, SAP C/4HANA and SAP Ariba solutions.
- SAP Leonardo Machine Learning Foundation, which allows customers to develop individual applications, has five new services, including object detection, text recognition in images and text classification, which analyzes and automatically categorizes text documents. It now supports the software library scikit-learn, in addition to TensorFlow.
- SAP Cloud Platform Blockchain is a new blockchain as a service enabling enterprises to easily build and extend business solutions with blockchain technologies, such as Hyperledger Fabric and MultiChain. About 65 companies participate in the SAP blockchain co-innovation initiative to help customers use manufacturing and supply-chain products augmented by blockchain to enhance transparency, safety and collaboration in industries such as transportation, food, and pharmaceuticals. To ensure quality, U.S. sausage maker Johnsonville LLC is using blockchain to trace the origin of products across the supply chain.

To expand and accelerate global adoption and best practices of blockchain in the transportation industry,

SAP has started a global blockchain consortium with seven founding members, including Intel Corp., Hewlett Packard Enterprise Co. (HPE) and A3by Airbus SE.

To help customers easily embed advanced technologies into their solutions, SAP released SAP Leonardo-based innovation kits for specific industries, including retail, life sciences, manufacturing and automotive. SAP also launched the SAP Leonardo Partner Medallion Initiative, an SAP partner service that has more than doubled the number of SAP Leonardo embedded industry solutions.

SAP Cloud Platform Takes Multicloud to New Dimensions

SAP continues to expand and enhance its multicloud strategy with the general availability of SAP Cloud Platform on Google Cloud Platform and Microsoft Azure. With these additions, along with Amazon Web Services (AWS), SAP Cloud Platform is now available on all major hyperscale cloud infrastructure providers. Only SAP delivers this single enterprise platform as a service (PaaS) with such flexibility, openness and choice.

SAP also intends to release SAP Cloud Platform, private edition, on IBM Cloud as a private cloud deployment. The joint solution will allow clients in regulated industries such as banking, healthcare and transportation, as well as those managing sensitive data, to have the flexibility, speed and agility to innovate without jeopardizing security and control.

Delivering on its promise to offer customers choice in mobile app deployments, SAP is also releasing the SAP Cloud Platform software development kit (SDK) for Android. It allows customers to access sophisticated workflows through any Android or Chrome OS device, bringing a familiar, easy-to-use mobile experience across iOS and Android apps.

SAP Analytics Cloud Innovations Enable the Intelligent Enterprise

The expanded capabilities of SAP Analytics Cloud are now directly embedded within SAP S/4HANA Cloud to ensure organizations can plan, execute and analyze in one system, breaking free from spreadsheet proliferation or stand-alone tools. Customers include leading recycled paper and packing company Pratt Industries, aerospace and defense company L3 Technologies and Daimler AG. Additionally, SAP Analytics Cloud now delivers contextual news feeds.

SAP Analytics Cloud extends access to over 150 cloud data sources, so customers can easily access, blend and gain insight from their data, no matter where it resides. The combination of machine learning and natural language query (NLQ) technology augments human intelligence, leading to faster, more accurate results and greater business agility. The new feature "search to insight" uses conversational AI to quickly provide insights into data by answering ad hoc questions in natural language on any device.

Other enhancements to SAP Analytics Cloud include prebuilt content and business logic for more than 20 SAP products, including SAP SuccessFactors, SAP Ariba and SAP Hybris solutions and SAP S/4HANA, to embed analytics where users work. These capabilities in SAP Analytics Cloud can be embedded into SAP line-of-business applications to power the intelligent enterprise.

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SAP Integrates more than 150 Enterprise Cloud Applications

5 June 2018

At the SAPPHIRE NOW 2018 conference this week, SAP launched SAP Cloud Platform Open Connectors, a purpose built API integration platform leveraging the Cloud Elements catalog of feature-rich connectors to over 150 leading enterprise SaaS applications. This is the first OEM deal with SAP for Cloud Elements, the leading API integration provider.

The SAP Cloud Platform Open Connectors product will be available to customers of the SAP Cloud Cockpit and will also work seamlessly with SAP API Business Hub. The initial focus of the partnership will offer integration capabilities within the SAP Cloud Platform, and will quickly expand to other integration and automation scenarios across multiple SAP business units.

Cloud Elements is widely known for its Virtual Data Resources, a sophisticated, yet easy, approach to seamlessly integrate enterprise applications - designed for developers and enterprise architects alike. In today's fast moving and increasingly cloud-centric enterprise, many organizations have more than 1000 cloud services in use, and require robust application integration and data governance to realize the most benefit from these applications.

"We built Cloud Elements in anticipation of the large demand within an enterprise organization to control and manage their cloud applications in real time. Legacy 'point-to-point' integration patterns couldn't scale in a cloud centric enterprise environment - something SAP has recognized and addressed with our new strategic relationship," said Mark Geene, CEO and Co-founder of Cloud Elements. "Cloud Elements enables SAP to provide customers with a pre-built integration solution across all leading enterprise applications. By simply plugging in to our virtual data resources, every enterprise can become an intelligent enterprise and focus on the data they care about."

Announced today at SAPPHIRE NOW 2018, the Cloud Elements platform - branded SAP Cloud Platform Open Connectors - will allow SAP customers to easily integrate SAP and non-SAP applications using a single unified integration platform.

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Siemens' Simcenter Testlab drives innovation and productivity in test-based engineering

5 June 2018

Siemens announced today the latest release of Simcenter Testlab™ software, its suite of data collection, analytics, and modeling software for test-based performance engineering in the core fields of noise and vibration, acoustics and durability. Formerly LMS Test.Lab™ software, Simcenter Testlab is designed specifically to offer test teams a complete set of capabilities to help innovate smart products under tight schedules.

Simcenter Testlab Neo is the next-generation platform for test-based engineering. It extends its test-based engineering capabilities with end-to-end durability testing, uniquely combining data collection and data analytics, and introduces a new intuitive sound quality engineering solution. It also strengthens integration throughout the Simcenter™ portfolio by introducing model-based system testing embedding virtual simulation within physical testing for system validation at any development stage. Overall, the latest release includes features that lend to greater productivity, more insights, increased confidence, and easier team collaboration.

"Simcenter Testlab offers an integrated end-to-end solution for load data acquisition and processing," said Guillermo Gonzalez, function and durability manager at Nissan Technical Center Europe, Spain.

"The solution accelerates the delivery of critical durability insights when preparing for test rig campaigns or reliable simulations. It is faster, easier to use and robust."

Developed to answer challenges in test-based engineering, such as shorter testing cycles, conflicting performance requirements, growing product complexity and overall cost reduction, the latest release offers a new user interface with Simcenter Testlab Neo. This next-generation platform sets higher standards in critical focus areas including greater productivity, increased confidence, more insight, and easier collaboration.

The portfolio has also been extended to include full end-to-end durability testing, uniquely combining data collection and analytics into one single environment. It covers every step of a typical test campaign, from channel setup and measurements, to validation, consolidation, analysis, and reporting. The new Simcenter Testlab load and fatigue analysis solution speeds up time-consuming tasks such as load data consolidation, accurate rainflow counting, and experimental fatigue analysis. It integrates instant visualization tools with interactive or automated analysis, performant processing, and active reporting to accelerate the delivery of critical durability insights.

For interactive troubleshooting of noise issues and faster benchmarking of design variants, the new Simcenter Testlab sound quality solution includes a calibrated audio replay with interactive filtering, built-in guidance for occasional users, standard off-the-shelf procedures, and flexible combination of noise, vibration and harshness (NVH) and sound quality metrics.

Model-based system testing enables attribute-specific evaluation throughout the development cycle, using virtual models, combined virtual-physical models and physical prototypes. Simcenter Testlab closes the loop with simulation by enabling integration of a wide variety of models from Simcenter Amesim™ software for co-simulation, on-the-fly creation of model-based virtual channels using measured inputs, thus providing deep physical insights into the device.

With enhanced capabilities for NVH and acoustic design of electric vehicles, this latest release also specifically address the current challenges of digitalization and electrification. In EVs, as the noise of an ICE is lower (or absent), secondary sources such as the wind, the road, or electric motors in components, are no longer masked and become more apparent. This requires additional engineering effort and testing using techniques such as aeroacoustic testing, road noise transfer path analysis (TPA), and vehicle interior acoustics analysis, now available within Simcenter Testlab.

"The latest release of Simcenter Testlab, and the inclusion of this technology in the Simcenter portfolio, is a testament to the importance of testing solutions as a part of our end-to-end solution," said Jan Leuridan, senior vice president of Simulation and Test Solutions, Siemens PLM Software. "These Simcenter testing solutions support innovative product development by helping manufacturers realize innovation by validating prototypes and their digital twins, and will integrate with the Simcenter portfolio seamlessly, while still retaining the strengths nested in their long-standing test capabilities."

For further information on Simcenter Testlab, please see https://www.plm.automation.siemens.com/global/en/products/simcenter/testlab.html

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Siemens' Teamcenter on Amazon Web Services enhances cost-effective cloud deployment

6 June 2018

Siemens announced today the updated certification of the Teamcenter® portfolio of product lifecycle management (PLM) solutions on Amazon Web Services (AWS). In addition to the updated certification, performance testing is now complete on several AWS cloud services used with Teamcenter. New AWS components for Teamcenter will continue to be certified on an ongoing basis. PLM on the cloud simplifies PLM deployments, eliminating large upfront infrastructure costs, and improving enterprise access to PLM data and processes. This helps enable customers to make smarter decisions, and transform their business through digitalization, leading to better products.

"With Teamcenter on AWS, customers can convert to a pay-as-you-go model for infrastructure, and centrally manage a global PLM footprint cost-effectively," said Terry Wise, Global Vice President of Channels and Alliances, Amazon Web Services, Inc. "We are excited to see Teamcenter customers use more AWS services, further helping customers to do more with less, globally."

"We needed a system to collect and connect our product data in an intelligent way," says Gustav Kågesson, design manager for NP Innovation. "We chose to deploy the proven product lifecycle management system, Teamcenter, on the cloud using Amazon Web Services. We reduced our up-front infrastructure investment, simplified maintenance, and the implementation was smoothly delivered in only 10 days."

Leveraging cloud services from AWS extends the value of Teamcenter, lowers overall cost of ownership, and simplifies deployments. The Amazon Relational Database Service (Amazon RDS) minimizes the effort to set up, operate and scale a relational database in the cloud, which in turn can decrease costs and time allotted to Teamcenter database administration. The Amazon Elastic File System (Amazon EFS) provides elastic file storage capabilities that allow customers to quickly set up, manage, and scale file systems used with Teamcenter on the cloud. AWS Elastic Load Balancing helps with balancing request routing to the Teamcenter middle-tier in a robust manner for scalability and performance improvements. Finally, Teamcenter with Network Addressable Translation (NAT) enables cloud network security in keeping important data sources, such as Teamcenter, within the private subnet under Virtual Private Cloud (VPC), and connects to Software-as-a-Service (SaaS) type offerings in the cloud. The expansion of AWS cloud services certified for use with Teamcenter will give PLM customers more flexibility by selecting cloud technology options to achieve their innovation goals.

"The updated certification of Teamcenter on AWS assures our customers that these technologies will continue to work together, even as they evolve," said Joe Bohman, senior vice president of Lifecycle Collaboration Software, Siemens PLM Software. "The modern and agile architecture of Teamcenter continues to adopt new technology, which builds on our proven expertise in PLM. We recognize that the cloud is critical to PLM. Expanding the available options on the cloud illustrates how Teamcenter has and will continue to help our customers meet market challenges and realize innovation."

For further information on Teamcenter on Amazon Web Services, please see https://community.plm.automation.siemens.com/t5/Teamcenter-Blog/Teamcenter-on-AWS-Cloud-In-Step-with-the-Latest-Cloud-Solutions/ba-p/492366.

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ThingTech Launches Next-Gen IoT Platform for Enterprise Asset Management and Connected Field Service

7 June 2018

ThingTech today announced the launch of ThingX Connect, a radically intelligent IIoT platform and product suite that integrates enterprise asset management (EAM), IIoT connectivity and field service automation. Assets—whether vehicles, heavy equipment, sensors, or power generators—that aren't maintained properly will perform poorly, delay service delivery, result in costly breakdowns, and put the safety of workers at risk. Organizations that own, operate, and maintain expensive assets can't achieve operational efficiencies without visibility into where these assets are, what condition they're in, and how they're performing. ThingX Connect offers an end-to-end solution that enables these companies to reduce costs, extend asset lifecycles, increase utilization, and improve service delivery.

ThingX Connect is a revolutionary platform that productizes the IIoT into a simple yet configurable plug-and-play solution. ThingX Connect integrates ThingTech Real Time to capture streaming data from IoT devices/sensors at the edge. Real-time data can be processed at the edge on the device's SoC (system on chip) or connected to ThingTech Enterprise, a cloud-based EAM system with deep MRO and workflow functionalities. Finally, actionable intelligence gleaned from these insights can be extended to field service operations and visualized with ThingX Mobile, a responsive, intuitive, easy-to-use mobile application that enables field service mobility with GPS navigation and mapping, enhanced scheduling and dispatch, work order optimization, and many other mobile workforce management tools.

"We're excited to release the new platform and products to the market and our existing customers. This release represents over one and a half years of development and engineering, and has been strategically designed for maximum flexibility, scalability, and ease of use," said Vlad Mijatovic, Chief Technology Officer, ThingTech.

"The re-architected platform and products leverage industry leading user-experience tools and microservices, giving us the ability to store, run, process, and analyze big data at scale. As we grow we'll continue to focus on high-transactional data processing to enable companies to operationalize data from any IoT-enabled "thing" using multiple wireless communication methods and protocols."

ThingTech was founded to specifically address the needs of asset and field service-intensive organizations where visibility, accountability, measurability and performance of their assets, equipment, and mobile workforce is lacking, siloed, or not available . Our mission is to connect customers assets, devices, sensors, and people to generate actionable data to improve operations and customer service by connecting things in real time and generating actions - at the edge, cloud, and field.

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Virtustream Expands Partnership with SAP to Offer Data Hub on Virtustream Enterprise Cloud

4 June 2018

Virtustream today announced an expanded partnership with SAP, becoming one of the first global cloud providers to offer the SAP Data Hub solution on the cloud via Virtustream® Enterprise Cloud. Customers can now choose to deploy SAP Data Hub, which is a data operations management solution that enables data orchestration, pipelining, governance and agile sharing of all data across a connected data landscape, as an out-of-the-box solution.

From a single location, SAP Data Hub and Virtustream Enterprise Cloud allow customers to accelerate and expand the flow of data across their organization. Customers can get up and running quickly with a comprehensive solution that is installed, managed and maintained by Virtustream, giving IT teams more

time to focus on solving strategic business problems.

“We are evolving our solution through the addition of SAP Data Hub, which brings the latest in big data management capabilities to the cloud experience our customers know and love,” said Christina Colby, SVP, Alliances, Virtustream. “Our partnership with SAP means customers can now manage mission-critical big data workloads and cloud native workloads easier than ever before, which allows them to scale their big data solutions.”

Virtustream customers can leverage SAP Data Hub to build scalable, data-driven applications and services, bring them to market quickly, and have one location for data management and visibility. Customers also receive the many benefits of Virtustream Enterprise Cloud, including:

A true enterprise-class cloud. Virtustream Enterprise Cloud is designed to run complex, mission-critical enterprise applications with a full suite of professional services. Virtustream offers high availability and performance speeds, backed by industry leading SLAs and integrated rigorous security.A consumption-based pricing model based on actual consumption of cloud resources. Virtustream’s patented MicroVM cloud resource allocation and management technology allows fine-grained measurement of compute, memory, network and storage consumption. Customers only pay for the resources used, reducing inefficiencies and creating significant cost savings, while eliminating overhead from unused virtual machines. Critical business systems are secure and protected by comprehensive IT security infrastructure. When combined with a wide range of industry-specific and government certifications, Virtustream Enterprise Cloud creates a trusted environment to run even the most sensitive enterprise data.

“With this deepened partnership, we’re looking forward to extending our big data capabilities to an even wider customer base so enterprises can take advantage of simple, scalable data operations and management,” said Michael Eacrett, VP of Product Management, P&I Big Data, SAP. “Virtustream has a longstanding history of providing security, performance and compliance, and is a great choice for large enterprises looking to adopt SAP Data Hub in the cloud.”

This announcement is part of a larger series of collaborations between Virtustream and SAP designed to bring additional benefits to customers. Last year, Virtustream provided new capabilities to specific verticals and additional geographies. In the first quarter of 2018, Virtustream continued the global expansion of its partnership with SAP HANA Enterprise Cloud with the addition of the Middle East and APJ.

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