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CIMdata News

CIMdata Announces Collaborative Research on Digital Transformation

6 June 2019

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces the initiation of a multi-sponsor collaborative research program focused on how a Product Innovation Platform is a critical enabler of an enterprise's digital transformation (DT).

In many companies, senior leaders view DT as a strategic initiative that may or may not be related to their Product Lifecycle Management (PLM) efforts. Their PLM messages themselves may be limited in scope to their current implementations and need an expanded vision—the Product Innovation Platform. This collaborative research program is designed to help answer vital questions about the on-going or planned DT efforts of industrial companies, how their PLM implementation plays in their DT efforts (or not), and their investment plans. The goal of this research is to deepen the understanding of on-going DT and PLM efforts to help promote success while at the same time encouraging more companies to understand and take strategic action in these areas.

To kickoff this research program, CIMdata enlisted several leading PLM solution and service providers as Founding Sponsors: ANSYS, Dassault Systèmes, and HCL Technologies. The extended research program team will collaborate to help identify the crucial issues around DT, Industry 4.0, and the Product Innovation Platform.

The research program includes several elements, including an initial Webinar highlighting the key issues. The Webinar will also introduce a global survey to learn more about the digital transformation efforts of industrial organizations and their adoption of enabling technologies like the Internet of Things (IoT) and digital twins. Interviews with thought leaders from Sponsors and their lead customers will be published on the CIMdata.com blog and actively promoted on social channels by all participants to encourage broader discussion on the topic and to promote survey participation. In addition to materials developed with the Sponsors, CIMdata will also publish the results more broadly for use by members of

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the PLM Economy.

According to Mr. Stan Przybylinski, CIMdata's Vice President and leader of CIMdata's research program, "Everything is going digital or is being digitally transformed. This Webinar, and the research it initiates, will help the PLM Economy understand what others in industry are doing to respond to these massive global trends."

Those interested in learning more can get involved by signing up for the complimentary webinar, "Lifecycle Digitalization." The webinar will take place on 27 June 2019 at 11:00 a.m. (EDT) and will last for one hour. During the Webinar, CIMdata will frame the problem and talk about some new CIMdata research that will dig deeper into the issues surrounding digital transformation.

To find out more visit the CIMdata website at <https://www.cimdata.com/en/education/educational-webinars/webinar-lifecycle-digitalization>. To register for the webinar visit <https://register.gotowebinar.com/register/8890971378890114572>.

About CIMdata

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

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

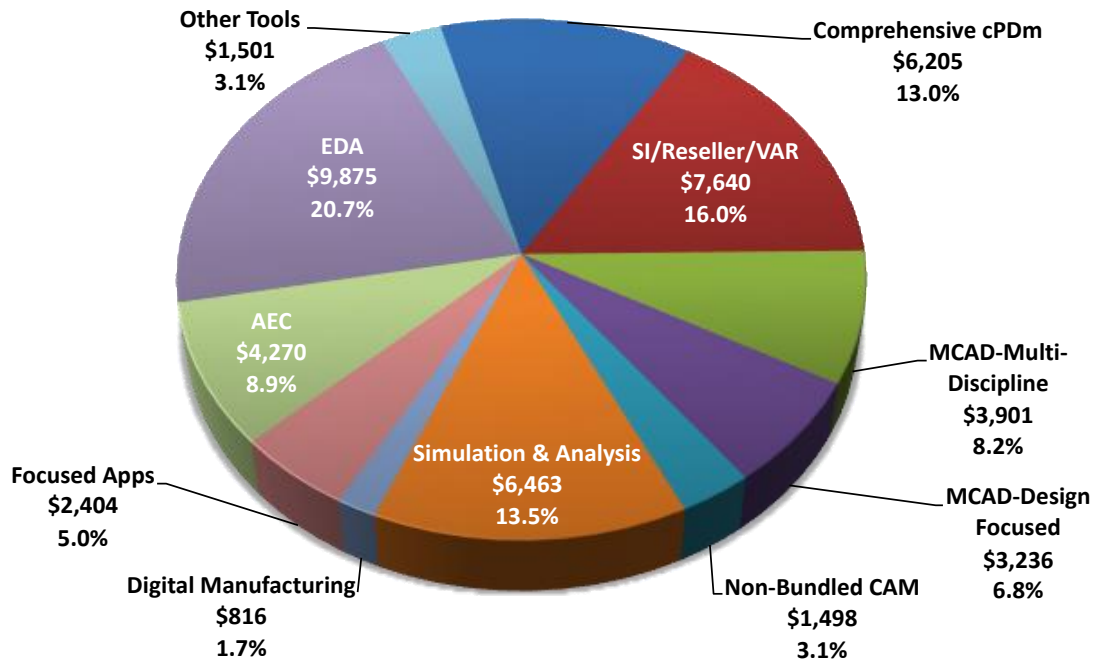
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CIMdata Publishes Executive PLM Market Report

4 June 2019

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces the release of the CIMdata 2019 Executive PLM Market Report. This report provides an executive-level view of CIMdata's comprehensive analysis of the PLM market, with summary charts on the overall market and on specific PLM solution segments (including the chart below). It also includes perspectives on current trends in the PLM industry and how they may affect current suppliers and investments.

CIMdata PLM Industry Summary



Distribution of 2018 PLM Revenue by Market Sector (US\$ Millions)

While the global economy has moderated since the slump in 2009, the PLM Economy, as measured in our PLM market analysis, has continued to grow. In calendar year 2018, the PLM market grew to \$47.8 billion overall, 9.4% growth over 2017. “The PLM market, and most segments, saw solid growth in 2018, well over our forecast,” according to Mr. Stan Przybylinski, CIMdata’s Vice President. “Simulation and Analysis (S&A) continued its run of strong growth at 12.7%. Autodesk’s emergence through their license model transition, and it’s 25% year on year growth as a company, helped segments where they are strong, like Architecture, Engineering, and Construction (AEC) and MCAD-Design Focused grow well above their historical norms. We expect the move toward smart, connected products to continue growth in S&A, software development tools, and electronic design automation (EDA).”

This report is the first of five modules of the CIMdata 2019 Market Analysis Report Series to be released. The MAR Series provides detailed information and in-depth analysis on the worldwide PLM market during calendar year 2018. It contains analyses of major trends and issues; revenues of leading PLM providers; and revenue analyses for geographical regions, industry sectors, and historical and projected data on market growth.

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

1. The *CIMdata 2019 Executive PLM Market Report* provides an overview of CIMdata’s complete global analysis. It includes key charts on PLM market investment statistics through 2018, forecasts of investments for 2019 through 2023, and a summary of PLM solution providers’ performance in 2018.
2. The *CIMdata 2019 PLM Industry Review and Trends Report* is mainly qualitative in nature, and focuses on key issues facing the global PLM ecosystem of solution providers and end user organizations. It highlights changes that occurred in 2018, what effects those changes may have in the short and medium term, and what is on the horizon in the years to come.
3. The *CIMdata 2019 PLM Market and Solution Provider Analysis Report* details measures of and

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forecasts for the overall PLM market and its key segments, including Tools, cPDM, and Digital Manufacturing. The Tools section has additional details on sub-segments, including MCAD, CAM S&A, EDA, and AEC. It also includes CIMdata's estimates of PLM solution provider revenues in these segments and sub-segments for 2019 through 2023.

4. The *CIMdata 2019 PLM Market Geographic Analysis Report* provides an additional view of the 2018 market results, by major geography. CIMdata's 2018 estimates and market forecasts for PLM and the major PLM market segments are provided for the Americas, EMEA, and Asia-Pacific. In addition, the report includes estimates and forecasts for the cPDM segment within specific European and Asia-Pacific countries and regions.
5. The *CIMdata 2019 PLM Market Industry Analysis Report* provides an industry segmentation view of the 2018 market results. CIMdata's 2019 estimates and market forecasts for PLM and cPDM are provided for eight different industry sectors: aerospace and defense; automotive and other transportation; electronics/telecommunications; fabrication and assembly; process-packaged goods; process—petrochemical; utilities; and construction, infrastructure and shipbuilding.

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

About CIMdata

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

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

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CIMdata Publishes Global CAM Market Analysis Report

6 June 2019

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces

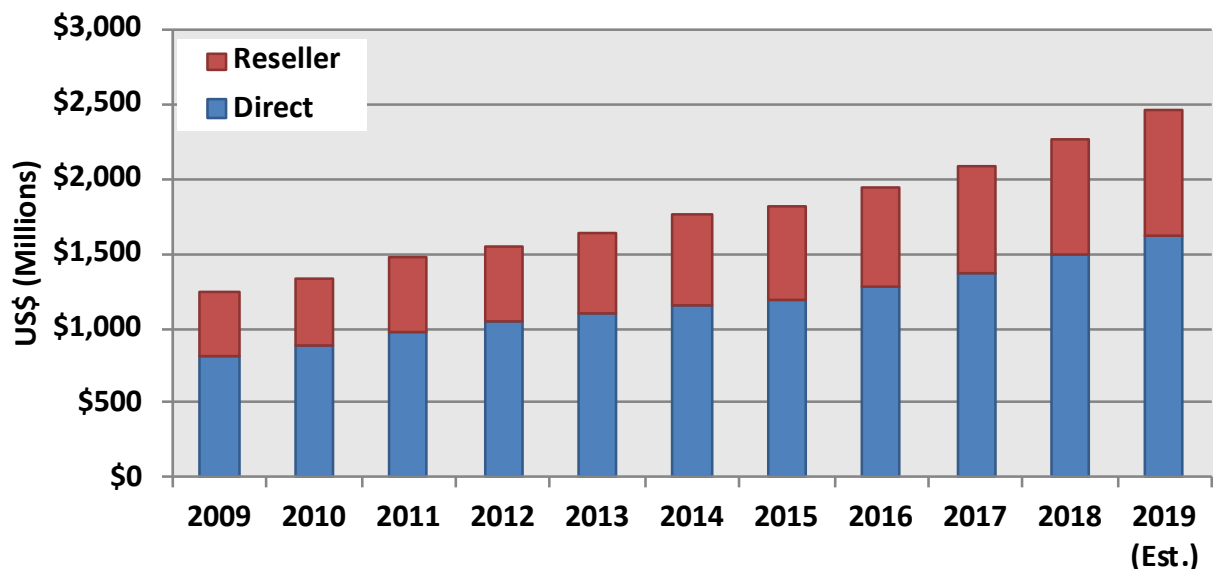
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the release of the 2019 CIMdata CAM Market Analysis Report (MAR), the 27th annual study of the global Computer-Aided Machining (CAM) market. CIMdata estimates that based on end-user payments, the worldwide CAM software and related services market grew by 8.8% in calendar year 2018. The estimated end-user payments grew from \$2.1 billion in 2017 to nearly \$2.3 billion in 2018. According to Mr. Stan Przybylinski, CIMdata's Vice President, "The CAM results were very strong in 2018, above the top end of its historical range of 5 to 7% growth. There has been stronger growth in machine tools in the last 12 to 18 months which could be helping to drive investments in new CAM software." CIMdata projects that in 2019 growth in manufacturing will continue and end-user payments for CAM software will increase by 8.1% to nearly \$2.5 billion.

Since 2002, the CAM software market has shown modest but steady growth as global economies generally improved. There has been worldwide growth in the sale of machine tools and manufacturing output; greater emphasis has been placed on the efficient operation of machine tools as manufacturing firms have strengthened their competitive positions; and the overall PLM (Product Lifecycle Management) market, of which CAM software is a component, has continued on a strong growth path during this period. CAM software purchases are related to all of these factors—particularly machine tool sales.

The size and growth of the CAM software and related services market based on end-user payments is shown in the chart below. It can also be seen that approximately one-third of the end-user payments are reseller revenues and approximately two-thirds of the revenues are payments made directly to software suppliers.

The 2019 version of the CAM MAR is a 116-page report containing 22 charts and 39 tables of data detailing the worldwide CAM market along a number of dimensions. It also includes a discussion of trends in the CAM industry and updates on the top CAM solution providers. The 2019 CIMdata CAM Market Analysis Report is available for purchase at: <http://www.cimdata.com/en/research/plm-market-analysis-report-series>.



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Dassault Systèmes 3DEXPERIENCE Forum 2019 (CIMdata Commentary)

6 June 2019

Key takeaways:

- *People who design and sustain products will benefit by using the virtual world to extend and improve the real world.*
- *The 3DEXPERIENCE extends well beyond manufactured product support.*
- *Product innovation platforms (such as Dassault Systèmes' 3DEXPERIENCE platform) enable innovation. Platforms don't innovate, people innovate, but the platform is a critical innovation foundation.*
- *Dassault Systèmes continues to expand and enhance their cloud offering.*

Dassault Systèmes' North American 3DEXPERIENCE FORUM 2019 was held in Las Vegas from 13 to 16 May. This year's theme was "Industry Renaissance: Sustainable Innovation and Business for a Sustainable World." Mr. Dean Marsh, Managing Director of North America, Dassault Systèmes, kicked off the event by stating that the "virtual world extends and improves the real world," providing Dassault Systèmes' community of users with a true 3DEXPERIENCE. Dassault Systèmes characterizes their 3DEXPERIENCE platform as supporting a set of sustainable innovations capable of harmonizing products, nature, and life. They make the case that their solutions support all aspects required to provide a 3DEXPERIENCE. A bold statement that Dassault Systèmes has taken to heart and is well on its way to delivering.

Ms. Florence Verzelen, EVP Industry Solutions, Marketing and Communications, Dassault Systèmes, who followed Mr. Marsh, talked about building sustainable businesses while improving operational efficiency and reducing cost, and how Dassault Systèmes is embedding sustaining concepts into their 3DEXPERIENCE platform. Ms. Lucia Chung, Boeing Senior Director of IT Factory Operations, discussed how Boeing's Manufacturing IT Digital Transformation Journey. She described how Boeing uses standards to drive digitalization of their manufacturing architecture. She noted that "Without a

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standard there can be no KAIZEN.” She also stated that a “Digital enterprise leverages latest technologies,” but that is not enough, the culture of the organization has to adapt to and adopt those technologies, so companies need to build a decision culture that encourages change agents and cultivates talent supported by training and certification that allow structured time for people to practice what they learn. CIMdata reinforces this sentiment—change without cultural adoption is simply not sustainable and the cultural change needs to be an active undertaking.

The next speaker, Mr. Aidan Quilligan, Accenture’s Leader of their Industry X.0 practice talked about Reinventing the Product. His main theme was that companies must transform and scale innovation. To do this, they must attack below the line—doing things faster and more efficiently, as well as above the line—deploying new services and experiences to scale and lead to successful innovation. Three key factors he mentioned were: 1) define the value expected from innovation, 2) drive organizational change (an important theme repeated), and 3) build innovation factories to institutionalize innovation and make it a continuing organizational legacy. CIMdata’s more than 35 years of experience working with industrial companies indicate that sustainable innovation and the benefits it provides takes time to be fully embedded and adopted by an organization. Mr. Quilligan’s key factors are well articulated.

Mr. Chris Collins, SVP Product & Technology Enablement, NXP Semiconductors, gave a presentation on Excellence in Design. NXP Semiconductors has been building chips for many years. Mr. Collins described their products as having thousands of components embedded in them, and to achieve zero defects they need to track them all. To solve the data management problem, they turned to Dassault Systèmes, who worked as a trusted partner in building and deploying their new environment. Today they have 10,000 users, with 1,400 distinct users per day, and all of their IP is managed in the platform, providing the single source of the truth they require to work with their complex and massive product structures. An impressive accomplishment.

Another company with massive product structures is McDermott International. Their Global VP of Engineering, Mr. Vaseem Khan, gave a presentation about the role of PLM in helping with Silo Busting in companies. McDermott executes huge projects (\$30 to \$100 billion) that cross multiple groups in their own organization, but also with owners, operators, and many suppliers. Even small overruns can be very large, but savings can also be large in projects of this magnitude. He stated very clearly that what McDermott has found is that creating a digital workstream that does not recognize silos is critical to supporting communication and responsibilities across the team. They rely on PLM’s single source of truth repository to capture the IP from the silos, making it available to everyone—effectively minimizing the impact of silos. He stressed that organizations “need to digitize the good processes.”

Mr. Bernard Charlès, CEO and Vice Chairman of Dassault Systèmes echoed the sentiment. He stated that “It’s about connecting people together.” He also referenced Albert Einstein’s quote: “Pure logical thinking cannot yield us any knowledge of the empirical world; all knowledge of reality starts from experience and ends in it.” Reinforcing Mr. Khan’s talk, he stated: “Don’t digitize the past.” Adopt a digital transformation that is people centered—not technology centered. Mr. Charlès, looking forward, proposed that bio-science will have a major influence on this century, much as material science had in the last, and thus Dassault Systèmes has expanded its 3DEXPERIENCE vision to embrace bio and other sciences in an attempt to overcome the silos in industries such as healthcare. CIMdata continues to watch the 3DEXPERIENCE platform evolve with great interest. It is an embodiment of what CIMdata believes must be available if PLM is ever going to meet its promise as an innovation enabler.

Ms. Dawn Hudson, former CEO Pepsi North America, talked about “Driving Authentic Business Innovation.” Her key messages were about the importance of “disrupting the disruptor” to build new,

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innovative products and brands. She spoke about using “brand soul” to drive brand purpose. Another of her themes on driving innovation was that “Innovation is a science and an art.” Having great technology helps, but people also need vision and the will to drive innovation. An important observation, one that has been described by CIMdata for a while now. Product innovation platforms (i.e., solutions like Dassault Systèmes’ 3DEXPERIENCE platform) enable innovation, they don’t innovate for you, people innovate when given clear, concise, and accurate information and the time to think beyond the past.

Customer presentations on how they use Dassault Systèmes’ 3DEXPERIENCE platform and its extensive set of solutions were interesting and represented a number of industries and products. CIMdata views these as demonstrations of the power of applying a product innovation platform to real-world problems. They also demonstrate Dassault Systèmes’ continued commercial success with its 3DEXPERIENCE platform strategy and associated PLM-enabling solutions.

To kick off Day Two, Mr. Olivier Bellin, Head of Operations at Canoo described how they are Creating Mobility for the Future. Their solution is a small footprint, large capacity electric vehicle, designed using Dassault Systèmes’ 3DEXPERIENCE platform. Besides the design, based on providing social space for the occupants, they are introducing a new business model wherein the vehicle is provided as a month-to-month subscription service. According to Mr. Bellin, to accomplish this requires a value loop instead of a value chain supported in a decentralized organization model—all supported by the solutions that make up the 3DEXPERIENCE platform.

Moving from the automobile world to Building the Supersonic Future, Mr. Josh Krall, Co-founder and Vice President, Technology at Boom Supersonic, talked about “removing the barriers to experiencing the planet” through reasonably-priced air travel. Their new supersonic aircraft is being created virtually in the 3DEXPERIENCE platform. Boom has been expanding rapidly and has been increasing their use of Dassault Systèmes’ solutions for a number of years now. This is a good proof point that Dassault Systèmes’ solutions are scalable and a company designing sophisticated products can start small and expand as needed.

Harnessing the Power of Domain & Technology Led Innovation to Drive Measurable Business Value was the title of Mr. Nitesh Bansal’s presentation. Mr. Bansal is Senior Vice President and Global Head for Engineering Services at Infosys. His presentation covered many benefits of employing PLM and illustrated Infosys’ experience implementing PLM.

The last keynote of Day Two was an inspirational talk by Pro Football Hall of Fame Running Back, Businessman and Entrepreneur, Mr. Emmitt Smith. His talk was titled Dreaming, Goal Setting, and Making the Impossible a Reality. Mr. Smith described his journey of development centered on his football career from a youth through his retirement, and on to his current business career in real estate development. He urged the audience to embrace change stating that “change happens all the time,” so use it. “How you deal with the challenges defines who you are.” This of course holds true for everything we do in life.

In addition to these main speakers and themes there were numerous breakout tracks that supported how Dassault Systèmes sees their 3DEXPERIENCE platform impacting and enhancing how companies work today. These tracks included:

- Advancing Future Flight and Mobility Innovation
- CxO Technology Insights: What’s Next to Enable the Industry Renaissance?
- Eliminate the Silos with the 3DEXPERIENCE Platform

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- 3DEXPERIENCE Platform for Model-Based Systems Engineering
- Manufacturing: Factory of the Future
- Manufacturing: 3DEXPERIENCE Twin & Cognitive Augmented Design for Additive Manufacturing

As always, there was an area for Dassault Systèmes and its partners to showcase their products and services—called the 3DEXPERIENCE Playground. As in past years, there was a buzz in the Playground among the numerous service providers with significant Dassault Systèmes practices. Multiple conversations point to the fact that many of them have been expanding their partnership with Dassault Systèmes and look for a bright future.

On a side note, Dassault Systèmes mentioned that they continue to expand and enhance their cloud offering. Mr. Charlès specifically commented that Dassault Systèmes is creating their own cloud infrastructure, which currently has eight sites. He also mentioned that their cloud infrastructure doesn't use Microsoft or Oracle database capabilities but rather their own solution run by OutScale, which is majority owned by Dassault Systèmes. Mr. Charlès stated that Dassault Systèmes' cloud offering, which is fully DevOps supported, is the only cloud service with a site in China that has been approved to be administrated from outside of the country.

CIMdata continues to find that Dassault Systèmes' 3DEXPERIENCE platform provides continually broadening solutions to support what, to some, may appear to be fringe areas compared to manufactured product development—such as those in bio-science. However, Mr. Charlès and his team provide a visionary view of just how interconnected, expansive, and inclusive support of human endeavors can be. We at CIMdata look forward to seeing where and how Dassault Systèmes' 3DEXPERIENCE approach and platform evolves next.

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Acquisitions

CGS Acquires Business of Visual Next

21 May 2019

CGS announced it will acquire the business of Visual Next, a leading provider of end-to-end software to

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apparel, footwear, uniform, and fashion accessory companies. The acquisition will further the complementary strengths of Visual Next and CGS's industry leading [BlueCherry® software solution](#). Terms of the agreement were not disclosed.

With a rapidly changing market along with the trend for unified commerce and the convergence of retail and wholesale, customers are demanding a complete solution to manage all channels of their business. CGS and [Visual Next](#) have a deep industry expertise and a shared vision of delivering end-to-end, concept-to-consumer solutions to companies in the apparel, fashion and consumer lifestyle industries. The combined organization will expand the geographical market, while also benefitting customers with improved customer support and increased investment in the product platform.

“We're incredibly excited to become part of the CGS family,” said Charles Benoualid, CEO, Visual Next. “BlueCherry and Visual Next Solutions share a vision of furthering next-generation technology to support the rapidly evolving needs of fashion, apparel, footwear brands. Visual Next will bring complementary solutions to the BlueCherry community, extending the value of our joint offering to the ever-evolving retail and wholesale audience. This acquisition brings the best end-to-end workflow, from sourcing materials to point-of-sale, to the customers of both organizations.”

Founded more than 20 years ago, Visual Next provides a complete suite of business software built by industry experts for the next generation of fashion businesses. The company empowers customers worldwide with the tools to reach their next milestones and achieve sustainable growth by removing the element of uncertainty in a shifting market.

“The demand has never been greater for next-generation solutions in the retail and wholesale apparel and footwear market, and the bringing together of Visual Next with CGS will further strengthen our offering, in particular in the PLM, integrated Finance and integrated POS space, to benefit the fashion community,” said Phil Friedman, President and CEO, CGS. “Having served the fashion community for more than three decades, CGS prides itself on delivering the best solutions to our valued clients. This acquisition demonstrates our continued objective to remain client-centric, offering best-of-breed services to meet changing market demands.”

CGS's [BlueCherry® Enterprise Suite](#) provides clients with comprehensive digital supply chain management solutions, available both in the cloud and on-premises, to drive their fundamental business processes. With a focus on the needs of high-growth organizations operating in consumer lifestyle products, retail and apparel, BlueCherry is a unified platform that provides supply chain visibility with the latest digital technologies. The BlueCherry Suite addresses the needs of the end-to-end supply chain, from planning and product development to manufacturing and sales.

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UDG adds Putnam Associates and Incisive to healthcare comms group

5 June 2019

The twin acquisitions strengthens the breadth of services offered by UDG's healthcare comms division, Ashfield Healthcare Communications.

Putnam adds to Ashfield's growing advisory pillar, adding expertise in product commercialisation, pricing, reimbursement and market access strategy.

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The US-based firm has 120 employees across offices in Boston and San Francisco, and offers consultancy services across the product life cycle with particular strengths in product commercialisation, pricing and reimbursement and market access strategy.

The last 10 years have seen the agency provide commercialisation advice on a number of products that have since achieved blockbuster status.

It also complements Ashfield's existing advisory offering, including STEM, Vynamic and SmartAnalyst, which were acquired between 2016 and 2018.

Incisive Health

Incisive Health adds specialist capability in the growing area of public health advocacy, supporting clients to secure marketing access for their brands, in addition to wider communications services.

Founded in 2013 by Bill Morgan (a former special advisor at the UK Department of Health) and ex-MHP Health Mandate leaders Mike Birtwistle and Sarah Winstone, Incisive Health quickly gained a strong reputation in its field of healthcare policy, public affairs and communication services.

Across its head office in London and an office in Brussels, the consultancy employs 36 people and provides consultancy and comms services including clinical advocacy, corporate and digital comms, direct payer engagement and public affairs, serving predominately pharma and biotech companies.

"We are delighted by the addition of Incisive Health to the UDG Healthcare and Ashfield family as they bring a rare set of best in class insights and capabilities in the policy space," said Richard Lawrence, executive director, Ashfield Healthcare Communications.

"The acquisition enhances our capabilities to support clients at every stage of the product lifecycle and manage the complex markets they operate in. Incisive Health will specifically complement our existing and award winning offering in PR and healthcare communications provided by Galliard/Nyxeeon, who focus on scientific storytelling, and Pegasus who create integrated communications campaigns that change behaviour across different healthcare markets. Put together, this acquisition would see us top the latest PR Week healthcare league table."

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Wipro to Acquire International TechneGroup Incorporated (ITI), a Global Interoperability Solutions Company

5 June 2019

Wipro Limited announced that it has signed a definitive agreement to acquire International TechneGroup Incorporated (ITI), a global digital engineering and manufacturing solutions company.

ITI is a world leader in Computer Aided Design (CAD) and Product Lifecycle Management (PLM) interoperability software services. Through its key solutions for Model Based Enterprise (MBE), data interoperability and data migration, ITI provides the building blocks for Industry 4.0, to help build 'next generation' digital enterprises.

Founded in 1983 and headquartered in Milford, Ohio, USA, ITI has offices in the United Kingdom, Italy, Israel and Germany and directly provides software products and services to some of the world's leading manufacturers across aerospace, automotive, healthcare and other segments. ITI has long-

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standing partnerships with leading CAD, Computer Aided Manufacturing (CAM), Computer Aided Engineering (CAE) and PLM vendors, providing a variety of vendor/OEM integration and interoperability solutions.

ITI's offerings and solutions will be consolidated as a part of Wipro's Industrial & Engineering Services business and will function as a wholly-owned US subsidiary of the company. Wipro's Industrial & Engineering Services provides customers with a platform to innovate and engineer the next generation of products and platforms at scale, using an approach termed as 'EngineeringNXT'.

"As enterprises innovate and invest in 'EngineeringNXT', they are looking for ways to build a Digital Thread across design, engineering, and manufacturing. This acquisition complements Wipro's core strengths in Industry 4.0 and allows us to offer end-to-end solutions in Digital Engineering and Manufacturing. We are pleased to welcome ITI's employees and are confident that their unique offerings and solutions will add value to our organization," said Harmeet Chauhan, Senior Vice President, Industrial & Engineering Services, Wipro Limited.

"Our customers and employees will benefit from the synergies of ITI and Wipro's combined portfolio of offerings," said Tom Gregory, CEO, International TechneGroup Incorporated. "Clients will gain access to Wipro's global services and ITI's innovative solutions to accelerate the adoption of digital manufacturing initiatives. We are pleased to become a part of the Wipro family."

The acquisition is subject to customary closing conditions and regulatory approvals and is expected to close in the quarter ending September 30, 2019.

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Company News

Cadence Academic Network Expands with the First Certified Lab in Kazakhstan at Nazarbayev University

6 June 2019

Cadence Design Systems, Inc. announced that Nazarbayev University, Kazakhstan, is the first university in Central Asia to join the Cadence® Academic Network and become a Cadence Certified Lab. The certification was granted to the university after the completion of Cadence certified trainings by their teachers and examiners. Becoming part of the Cadence Academic Network will enable the university to contribute to the advancement of Kazakhstan's electronics industry by providing students with comprehensive knowledge of Cadence's state-of-the-art technologies. The newly equipped microelectronics lab was inaugurated by the Provost Adesida Ilesanmi, Nazarbayev University.

The Neuromorphic Circuits and Systems Lab at Nazarbayev University is the leading integrated circuits group in Kazakhstan. Led by Professor Alex James from the School of Engineering, it specializes in emerging artificial intelligence chip designs and neuromorphic circuits.

The Cadence Academic Network is a worldwide program that promotes the proliferation of leading-edge technologies and methodologies at universities renowned for engineering and design excellence in the area of verification, design and implementation of microelectronic systems. Network members collaborate with other universities, research institutes and industry advisors to share their expertise with

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Cadence tools.

“We are looking forward to the collaboration with the Cadence Academic Network. We strongly believe that Cadence tools will effectively broaden student competencies in circuit and system design and can help upgrade the technology skill sets of students for their future careers,” said Charles Surya, dean of the School of Engineering, Nazarbayev University.

“Our collaboration with Cadence will also help support the successful advancement of the microelectronics design industry in Astana and broader Central Asia.”

“Over the years, the Cadence Academic Network has substantially enlarged its outreach activities in EMEA, and as a result, we are now welcoming the Nazarbayev University, renowned for its expertise in providing a holistic student-centered approach to educate engineers who will be future leaders in Kazakhstani industry sectors,” said Sanjay Lall, Corporate VP, Operations EMEA at Cadence. “With the achievement of the Cadence Certified Lab status, Nazarbayev University will now be in a position to deliver leading-edge EDA solutions to their students and become recognized for using Cadence technologies as part of its curriculum. We look forward to building upon this new relationship and to supporting the growth of the next generation of engineers in Kazakhstan.”

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CONTACT Software strengthens partner network in China

5 June 2019

CONTACT Software and Shangdong Xuanji Industrial Automation enter into a strategic partnership. Their goal is to provide China's industry with smart solutions for digital value creation in product development, production and services.

Shangdong Xuanji Industrial Automation Co. Ltd., founded in 2016 and based in Jinan's Qilu Software Park, develops manufacturing solutions for the intelligent factory. More than 100 specialists from the fields of system design, modeling, simulation and project management work for the company.

Their know-how is a gain for the CONTACT Global Ecosystem, emphasizes Michael S. Murgai, Head of International Sales & Partner Management. China's transformation into a high-tech nation requires the manufacturing industry to set up its R&D processes more efficiently. "Together with Xuanji, we can provide powerful support in sectors such as automotive, mechanical engineering and plant construction," says the CONTACT manager.

Xuanji mainly employs academics with several years of professional experience in research, the IT sector or state-owned corporations. They are excellently networked and collaborate in customer projects with renowned partners such as China Unicom, the Robot Research Center or the School of Control Science and Engineering at Shandong University.

"The cooperation with CONTACT complements our offering for Industry 4.0 with state-of-the-art applications that make the development of smart products easier, better and faster," says Nie Qiang, CEO of Xuanji (photo: second from right). "With the capabilities of the CONTACT Elements platform, we are excellently positioned in a dynamically growing market".

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Dassault Systèmes and Chinese GIS Software Leader SuperMap Partner to Drive New Approach to Innovation for Construction, Cities and Territories

4 June 2019

[Dassault Systèmes](#) and SuperMap Software Co. Ltd, a geographic information system (GIS) software and services company, today announced their intent to jointly engage on platform-driven projects for construction, cities and territories in global markets by combining their respective expertise and creating new guidelines for information exchange in these domains.

Under the terms of this memorandum of understanding, the two industry leaders plan to leverage Dassault Systèmes' 3DEXPERIENCE platform, and SuperMap's GIS software and application platform to define new experiences for customers. They aim to promote the use of big data and artificial intelligence for smart operations and collaborative innovation to transform construction, cities and territories in global markets, starting with China, one of the world's largest adopters of building information modeling (BIM).

In addition to this co-engagement, the companies plan to improve the exchange of their respective GIS and PLM publication data. The integration of 3DEXPERIENCE solutions powered by the 3DEXPERIENCE platform for modeling and simulating construction, cities and territories with SuperMap's unparalleled land mapping technologies will offer game-changing BIM innovation to model and simulate experiences for efficient decision-making during the entire lifecycle of buildings, railway networks, roads, highways, mobility hubs and other infrastructure.

"Our alliance with SuperMap will demonstrate the best solution in the industry to our prospects as well as our common customers. This will help create a digital twin experience of cities, railways, territories and other projects under development," said Florence Verzelen, Executive Vice President, Industry Solutions, Field Marketing, Global Affairs, Dassault Systèmes. "But this is only the beginning. As we increase our footprint in this domain, this alliance has the potential to address multiple cities and territories in China and globally. Smart city initiatives and large transportation infrastructure projects around the world offer the potential to anticipate and plan for more livable, resilient urban areas, yet require the successful collaborative innovation and smart operations we can jointly provide."

"The development of big data GIS, 3D GIS and technologies alike has driven changes in many relevant industries, and promoted the upgrading of smart city application in multi-dimensions," said Song GuanFu, CEO, SuperMap Group. "The deep integration between BIM and GIS has currently achieved breakthroughs in planning, housing construction, transportation, smart city and many other fields. The strategic cooperation with Dassault Systèmes enables us to jointly make technical innovations in BIM plus GIS areas and build up the CIM being the digital twin of the cities. Meanwhile, SuperMap and Dassault Systèmes also intend to engage in cooperation at multiple levels worldwide."

The announcement was made in the context of evolving demographic trends and continuous investment in transportation infrastructure. According to the United Nations, [66% of the world's population will live in urban areas by 2050](#). By 2025, China will have 221 cities with one million plus inhabitants. Worldwide, an estimated \$1.4 trillion will be spent per year in the next decade on transportation infrastructure.

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The DiSTI Corporation joins the Siemens PLM Software Solution Partner Program as a Software and Technology Partner

3 June 2019

DiSTI is a world leader in virtual maintenance training and HMI software development tools for aerospace, automotive, manufacturing, medical, industrial, and training environments.

Siemens PLM Software is a leading global provider of PLM software and services. As part of the partnership, DiSTI will integrate VE Studio with Siemens PLM Software's Teamcenter® portfolio, the world's most widely used digital lifecycle management software.

“Virtual and Augmented Reality technologies are transforming the way our customers want to train and equip their workforce. Companies want to be able to leverage their investments in their content and reduce the cost of developing and supporting virtual training solutions. This partnership will enable us to integrate the VE Studio Virtual Training Development Platform with Siemens' Teamcenter in a way that will automate the process of sharing content such as CAD and work in process procedures between the PLM system and the virtual training development platform. We are excited to work with Siemens to create additional value for our mutual customers,” says John Cunningham, Chief Revenue Officer of the DiSTI Corporation.

“Siemens PLM Software is committed to creating partnerships to help enhance the end-user experience of our customers. We are pleased to work with DiSTI to provide open, integrated solutions that improve the productivity of our mutual customers,” said Andrew Swiecki, Senior Director of Strategy at Siemens PLM Software.

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PDES, Inc. Welcomes Mitutoyo America Corporation

6 June 2019

PDES, Inc. welcomes Mitutoyo America Corporation to the Consortium as an Industry 3 participant. Mitutoyo plans to leverage the existing activities PMI testing and validation. By gaining access to testing and review of the ISO 10303 standards during the development phase, they will be able to ensure that capabilities in STEP are developed to improve manufacturing inspection. The impetus for their participation in the consortium is to take advantage of the organization's expertise in ISO10303 to improve Computer-aided manufacturing, inspection and quality for Industry.

“We look forward to Mitutoyo America's participation in PDES, Inc., with their focus on the realm of manufacturing inspection and it also adds critical mass to our emphasis on the manufacturing supply chain,” said Jack Harris, PDES, Inc. General Manager.

“Mitutoyo America is proud to provide the precision measuring solutions necessary to mitigate risk and assure performance in the manufacturing of parts and products for the aerospace and defense industry. We are eager to collaborate with PDES and hope to develop projects that will enable the CAx-IF CAD and CAE testing forums expand to Computer Aided Inspection (CAI) testing,” said Matt Dye, President, Mitutoyo America.

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PDES, Inc. is a member-based consortium focused on the development and implementation of model-based standards to support the digital enterprise. Founded in 1988, the organization includes members from Industry, Government and Academia. More information can be found at <http://pdesinc.org>.

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PTC Announces Intelligent Apparel Manufacturing Initiative, Extending the Reach of its Brand-To-Factory Strategy

6 June 2019

[PTC](#) is proud to announce the Intelligent Apparel Manufacturing (IAM) initiative. A response to the acute pressures placed on brand and retail businesses by today's fast-paced, hyper-competitive market, the IAM initiative is designed to transform the way products are sourced and manufactured – across fashion and apparel.

Conceived in partnership with digitalization consultancy [Black Swan Textiles](#), the IAM program leverages PTC's FlexPLM® and ThingWorx® Internet of Things (IoT) solutions to bring the vision for Industry 4.0 alive for fashion and apparel manufacturers anywhere in the world.

Built with FlexPLM, the IAM initiative will deliver even deeper integration between a single, centralized source of data and other business systems – establishing direct connectivity with manufacturing and opening the door to transformative new business models.

“Combining PTC's technical expertise with Black Swan Textiles' decades of experience in automation, manufacturing and product development, the IAM initiative will allow the fashion and apparel industry to significantly reduce time to market, shrink inventory and digitally connect a fragmented supply chain,” said Brion Carroll, VP of Global Business Development for PTC's Retail Business Unit.

To establish a comprehensive link between PTC's FlexPLM solution and the full complement of factory systems and hardware, the IAM initiative has been forged by new partnerships between PTC, Black Swan, and other key players in the connected supply chain such as Blacksmith International and Henderson Sewing Machine Co, Inc.

“To meet the demands of their customers, global manufacturers need access to real-time data from the shop floor in order to make informed decisions during the manufacturing process,” added Edward Hollyday, VP of Black Swan Textiles.

“By connecting different assets and sources of data such as 3D design, PLM, cutting and sewing machines, an existing factory can quickly become an ‘intelligent factory’ and begin delivering on the promise of the Industry 4.0 revolution. As a brand or retailer, the benefits of integrating multiple threads of data and obtaining real-time digital insights into the factory floor are profound, and we believe the IAM initiatives will give PTC customers a huge competitive advantage.”

[Blacksmith International](#), a Utah based apparel manufacturer and global sourcing company in the vanguard of digital transformation, is currently implementing several solutions (including PTC's FlexPLM and MOVE Warehouse Management) and IAM technologies to improve efficiency, transparency and bottom-line profits. “The ability to make business decisions based on up-to-the-minute data from the factory will drive the next wave of innovation, and it starts right here in Utah,” said Brian Sather, Blacksmith International. “We are proud to be working with Black Swan Textiles and PTC to

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architect the factory of the future: connected, transparent, and a fixture of the local community.”

[Henderson Sewing](#) Machine a third generation sewing machine distributor and systems integrator will also play a crucial role in the deployment of IAM hardware. One of the first and most pivotal parts of the initiative is centered around the ‘connected sewing machine’ where legacy sewing machines from all makes, models and stitch types will be connected to IAM, as Frank Henderson, CEO of Henderson Sewing Machines explains:

“The global manufacturing landscape is more competitive than ever, and the pressures placed on factories of all shapes and sizes demand a new level of connectivity and automation. Together with PTC and Black Swan Textiles, we are working to take manufacturers to that new level with the help of the Intelligent Apparel Manufacturing platform.”

Further details on the IAM initiative will be highlighted throughout PTC’s annual digital transformation conference, [LiveWorx](#), which runs from June 10th-13th, in Boston, MA. Most notably, a panel discussion titled; “Meeting The Demands of Future-focused Brands and Consumers with the Brand-to-Factory Initiative” will take place on Wednesday, June 12th at 1 pm. Panelists Edward Hollyday (VP, Black Swan Textiles), Brian Sather (CEO, Blacksmith Manufacturing), Brion Carroll (VP, Global Business Development, PTC) and Frank Henderson (CEO, Henderson Sewing Machine) will discuss this initiative and explain how it builds on PTC’s existing Brand-to-Factory (B2F) strategy. “This is a must-attend discussion for brands, sourcing agents and manufacturers in the retail and apparel industries seeking ways to work more closely with their suppliers, and to connect proprietary hardware and software systems through an intuitive intermediary platform,” said Bill Brewster, SVP and General Manager of PTC’s Retail Business Unit.

In addition, the IAM platform will be available to experience first-hand in PTC’s dedicated Retail booth, which is located in [Xtropolis](#) – LiveWorx’s impressive 200,000 square foot exhibit hall. Black Swan Textiles and Henderson Sewing will be exhibiting a connected sewing machine as well as connecting in real-time to machines at Henderson Sewing in Andalusia, AL using the power of PTC’s ThingWorx platform.

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The Revolution in Simulation Continues to Gain Momentum as Pointwise, Inc. Joins the Growing List of Sponsors

5 June 2019

The industry collaboration and technology alliance Revolution In Simulation (“Rev-Sim”), created to accelerate innovation through the democratization of engineering simulation, announces Pointwise, Inc. as a new sponsor for 2019.

“How do you democratize engineering simulation and make it safe and reliable for non-experts? A good start would be to make mesh generation invisible”, said John Chawner, president of Pointwise, Inc. “That’s why Pointwise is sponsoring Revolution in Simulation, to be part of a diverse team dedicated to making simulation more broadly accessible. We view democratization as more than a zero-sum game; we see it as elevating simulation for practitioners across the entire spectrum of expertise.”

Pointwise adds its name to a growing list of sponsors including: ANSYS, Aras, ASSESS, Beyond CAE, EASA, ESRD, ESTECO, Front End Analytics, Kinetic Vision, Modelon, NAFEMS, Ohio

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Supercomputer Center, PASS, PLM Alliances, UberCloud and VCollab. These innovative organizations are providing the expert leadership that supports the growing industry-wide movement to make engineering simulation more accessible, efficient, and reliable not just for CAE experts but also for everyone in the enterprise – what is commonly referred to as the “Democratization of Simulation” or DoS.

RevSim.Org co-founder, Rich McFall said, “Rev-Sim sponsors are critical in driving the Democratization of Simulation movement. We are excited to have Pointwise join other simulation market leaders who are demonstrating their revolutionary leadership by sharing their simulation expertise and resources in a collaborative alliance that benefits all industrial users of engineering simulation technologies.”

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SAP Appoints Subhomoy Sengupta to Lead Small and Midsize Business

4 June 2019

SAP today announced that it has appointed Subhomoy Sengupta as head of its small and midsize enterprise (SME) operations globally.

In his role, Sengupta will be responsible for driving go-to-market activities, leading the sales organization and delivering best-of-breed solutions to small and midsize businesses around the world – helping them compete better, win and grow.

Sengupta steps into the role having held various leadership positions at SAP, including a successful tenure as the head of small and midsize sales operations in India, and most recently serving the Board area Global Customer Operations as chief of staff. Before joining SAP, he held management positions at Oracle Corporation and Microsoft Corporation, where he was deeply engaged in the midmarket applications business.

“The significance of our partner ecosystem and SME practices to the growth of our company and success of our customers cannot be overstated,” said Adaire Fox-Martin, member of the Executive Board of SAP SE and president of Global Customer Operations. “Together, Subhomoy Sengupta and Karl Fahrbach, our [chief partner officer](#), constitute a new era of leadership tasked to bring the best of our technology to growing companies.”

SAP is growing its ecosystem in the service of SME customers with a wide range of partner add-on software for SAP solutions, packages and extensions available on [SAP App Center](#) to provide the right solution and experience for customers of all sizes.

More than 250,000 small and midsize businesses worldwide run SAP, a testament to the company’s standing as an innovative, trusted brand for customers of all sizes. The [SAP Business One](#) solution, with more than 65,000 customers, is available in more than 170 countries and in 28 languages. The [SAP Business ByDesign](#) solution is a mature, native cloud solution deployed in 150 countries and localized in 12 languages. [SAP S/4HANA Cloud](#) is a customizable and extensible solution for midsize companies with support for deep industry best practices built in.

Additionally, SAP offers cloud solutions such as [SAP Concur](#) solutions, the [SAP AribaSnap](#) program, the [SAP Upscale Commerce](#) solution, [SAP](#)

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[SuccessFactors](#) solutions, the [SAP Analytics Hub](#) solution and Experience Management solutions from SAP ([Qualtrics](#)) to provide line-of-business-specific capabilities and value to SMEs.

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Syslink Xandria Achieves Advanced Technology Partner status in the Amazon Web Services Partner Network, Launches New Offering

2 June 2019

[Syslink Xandria](#), a global provider of SAP and cloud management monitoring and automation solutions, announces it has achieved Advanced Technology Partner status in the Amazon Web Services (AWS) Partner Network (APN). The company will also grant AWS customers access to an exclusive [Solution Trial Offer](#) that includes a health assessment report of their SAP landscape.

Syslink Xandria is a simple-to-use-and-install yet powerful SAP and cloud management solution. It offers performance-based AWS auto-scaling and hybrid, cloud, and on-premises SAP landscape management designed to simplify the operations of large-scale SAP landscapes. The solution automates SAP system cloud scaling based on an in-depth understanding of SAP performance metrics, business processes, and rules.

"Syslink Xandria provides us with the visibility we need to proactively manage SAP workloads across multiple clients," said [Aasif Karachi](#), Cloud Managed Service Practice Leader at [Deloitte](#) Africa. "Using Xandria on hundreds of SAP systems both on-premises and in the cloud, we've significantly increased productivity. This has led to increased client satisfaction and by leveraging automation and enhanced reporting we are able to visualize the entire system landscape in real time."

Now, with Syslink Xandria's [new offering](#) for AWS customers, companies can experience the benefits Xandria offers through an easy-to-install cloud deployment. In less than three hours, customers can install Syslink Xandria on any three servers running SAP for three weeks. The solution is designed to automatically detect the customer's SAP and AWS systems and apply best practice monitors and thresholds, including operating system, database, SAP-specific processes, and more. The customer can get real-time visibility to their health and performance dashboard and access to other capabilities such as predictive resource planning and SLA reporting. The three weeks of Syslink Xandria's monitoring, managing, and automating of the customer's SAP systems will culminate in a written health assessment.

"One of the biggest challenges of SAP cloud migration is optimizing SAP systems in the dynamic cloud environment," said [Simon Wilson](#), COO at Syslink Xandria. "Syslink Xandria is leveraging the power of AWS to help SAP-centric businesses expedite their cloud migration and ensure cost savings and operational efficiency."

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Tuya and Microsoft collaborate to power Smart Home Products on the Microsoft Azure Cloud

28 May 2019

Tuya is announcing a new partnership with Microsoft at Computex 2019 that will deliver Tuya-powered smart home and office products on Microsoft's Azure Cloud in Q3 of this year.

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In addition to the cloud partnership, Microsoft and Tuya will be cooperating on customer development, offering the Tuya AI + IoT platform and Azure Cloud platform as options for smart home and smart office device developers from the outset.

"Our partnership with Tuya aligns with Microsoft Azure's goal of using the cloud and AI to build increasingly intelligent edge devices and solutions," said Mark Linton, General Manager, Consumer & Device Sales at Microsoft. "Tuya's wide offering of customers and solutions immediately expands the connected systems and devices that make up the intelligent edge, boosting the power of smart devices in homes and offices."

The partnership will provide Tuya access to Azure's 5 million enterprise customers, who will benefit from Tuya's AI + IoT platform already powering lighting, appliances, and environmental and surveillance equipment. In return, Tuya's more than 93,000 customers will have more cloud options.

"We're excited to be working with Microsoft to bring the benefits of Azure to our platform customers," said Alex Yang, co-founder and COO of Tuya Inc. "Azure's capability in providing storage, backup and recovery is a great benefit for any smart device we power, whether it be for the smart home or office."

Tuya will be showcasing smart home products powered by its AI + IoT platform, including cameras, lights, a pet feeder, and humidifier, at Microsoft's booth L0110 in Hall 1.

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Verra Mobility appoints Garrett Miller as EVP of Government Solutions to drive growth in smart cities innovation

4 June 2019

Verra Mobility announced the appointment of Garrett Miller to Executive Vice President, Government Solutions. As a key member of the executive team, Miller will lead Verra Mobility's Government Solutions business, developing smart cities technologies for municipalities and school districts.

"We work alongside our Government Solutions customers to solve their complex mobility challenges, developing highly customized technology that works behind-the-scenes to help make mobility safer," said David Roberts, President and CEO, Verra Mobility. "Garrett's background building, growing and leading the technology business for top-tier companies makes him perfectly suited to lead our Government Solutions team. We are excited about his leadership and what it means for future growth of mobility solutions in cities across the country."

In his previous role, Miller worked to deliver efficiency, safety and productivity outcomes for cities and enterprises pursuing digital transformation through the deployment of a flexible, open architecture IoT platform.

"Verra Mobility works with hundreds of local government agencies to improve transportation and the lives of millions of citizens," said Miller. "I feel extraordinarily fortunate to be part of such an incredible mission and to contribute to the company's continued growth."

Miller joins Verra Mobility from GE where he served as Chief Digital Officer for Current, powered by GE. In his role, Miller worked to deliver efficiency, safety and productivity outcomes for cities and enterprises pursuing digital transformation through the deployment of a flexible, open architecture IoT platform.

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Miller came to Current from SAP where he held a variety of roles, including Global Vice President of product lifecycle management (PLM) and project management lines of business; Head of Global go-to-market for industrial solutions portfolio; Senior Director of value engineering; and Director, environment, energy and analytics. Miller holds his Bachelor of Science degree in geology from Pomona College and his Master's degree in environmental engineering from Yale University.

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Events News

Aras to Demonstrate Simulation Capabilities at NAFEMS World Congress 2019

4 June 2019

[Aras](#) announced that key executives will present at [NAFEMS World Congress 2019](#) taking place June 17 – 20 in Québec City, Canada. NAFEMS is an international association for the engineering modeling, analysis and simulation community.

As products become increasingly complex, organizations need to manage an exponential number of product variants across the entire product lifecycle. To conduct this number of simulations at a rapid pace, it is critical to leverage a unified, flexible data model to ensure that data is not siloed and allows for increased accuracy and efficiency. Aras' platform provides innovative, flexible solutions for simulation management across products' entire lifecycles.

Aras will host two sessions at NAFEMS. In the first, titled, "Get the Data Right for Effective Multidisciplinary SPDM: Making the Case for a Tool-Independent Unified Data Model," Malcolm Panthaki, VP of Analysis Solutions, and Marc Lind, SVP of Strategy, will discuss the need for organizations to use a tool-agnostic, unified, requirements-driven, systems-centric data model to best capture data for simulation and SPDM. Mr. Panthaki and Mr. Lind will present two case studies illustrating the approach and benefits of managing simulation data and automating complex multi-fidelity, multi-disciplinary simulations. The presentation will take place on Tuesday, June 18th at 1:40pm.

Aras will also host an interactive software demonstration and Q&A session titled, "Managing Simulation in the Digital Thread." This session will focus on the way engineers can set the groundwork to efficiently run simulations that enforce repeatable best practices, while ensuring results are connected to the product's configuration. The goal is to maintain a traceable digital thread of product information that includes simulation inputs and results. The Q&A will include Aras partners discussing the way their software combines with Aras simulation management capabilities to enhance automated generation of 3-D reports and postprocessing, and easily use the on-demand HPC capabilities of the Microsoft Azure Cloud. Attendees will learn how to leverage a collaborative, flexible solution to scale the use of simulation throughout the entire product lifecycle. This interactive session will take place on Wednesday, June 19th at 1:20pm during the conference sponsor track.

In addition to speaking, Aras is an event sponsor. All attendees are encouraged to visit the Aras booth, G3, for more information or for demos of the Aras Platform. To schedule a meeting in advance, please contact Kim Anastasiou at kanastasiou@aras.com.

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Hexagon Features Keynote Speakers from AMT and Ericsson at HxGN LIVE

3 June 2019

Hexagon's Manufacturing Intelligence division announced two special guest speakers for the Manufacturing Intelligence track keynote at the 2019 edition of [HxGN LIVE](#), Hexagon's digital solutions conference. Division President [Norbert Hanke](#) will be joined on stage by Doug Woods, President of AMT – The Association For Manufacturing Technology, and Erik Josefsson, Vice President, Head of Advanced Industries at Ericsson, for the '[Smart is Hiding in Plain Sight](#)' presentation exploring the road to the Smart Factory.

During the keynote, Norbert Hanke will lead attendees on a search for 'smart' – challenging manufacturers to find the data in their factories and put it to work. Doug Woods will share his insights on the state of the manufacturing industry, assessing its readiness for digital transformation and discussing the risks and rewards of pursuing a smart manufacturing strategy. The session will then focus on establishing a practical route to the Smart Factory by looking at the imperatives for success and exploring the enabling technologies driving this trend. Here, Erik Josefsson will bring his expert knowledge of 5G connectivity for industry, explaining why it holds so much potential for manufacturing and showing how businesses can get started with this technology today.

“Data-driven manufacturing promises so much in terms of quality, productivity and sustainability, yet as an industry we have so far been slow to adopt digital approaches or even to fully utilise the data we already capture,” says Norbert Hanke. “It's important to realise that waiting for the 'right time' to go smart will put you at a huge competitive disadvantage. Together with our industry peers from AMT and Ericsson, I want to show our audience that they can and should start their journey towards the Smart Factory of tomorrow by making it smarter today; I look forward to hearing what our attendees think and discussing new ideas with them.”

HxGN LIVE 2019 takes place 11-14 June at The Venetian, Las Vegas, NV. The event brings together industry experts and thought leaders in six tracks aligned to Hexagon's cross-vertical business areas – Manufacturing Intelligence, Geospatial, Geosystems, Mining, PPM and Safety & Infrastructure. The Manufacturing Intelligence track keynote takes place in the Venetian Ballroom on Wednesday 12 June at 1:30 p.m. (PDT) and will also be live streamed on [HxGN TV](#). To register for the conference, or for more information, visit [hxgnlive.com](#).

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Lions and Tigers and Bear Grylls, Oh My! SAP Announces Highlights for SuccessConnect in London

28 May 2019

SAP today announced highlights for [SuccessConnect 2019 in London](#), taking place June 3–5 at the Hilton London Metropole.

Speakers will include:

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- **Bear Grylls**, one of the most recognized faces of survival and outdoor adventure
- **Bruce Daisley**, Twitter EMEA vice president, host of the number one UK business podcast, “Eat Sleep Work Repeat,” and best-selling author of *The Joy of Work*
- **Alex Lowen**, HSBC Group general manager and head of Group Performance, Reward, People Analytics and HR Transformation
- **Helen Bradley**, Bureau Veritas chief human resources officer and Executive Committee member
- **Margi Warrell**, author of four best-selling books, founder and CEO of Global Courage, Women’s Economic Forum honoree, Forbes contributor and host of the Live Brave podcast

“No matter how much technology helps us automate, one thing will never change: the importance of people and their experiences at work,” said SAP SuccessFactors President Greg Tomb. “Companies that put people at the heart of their strategies will win. This is the [Human Revolution](#), and HR is in the driver’s seat. We’re excited to welcome over 1,000 HR executives and senior business leaders to SuccessConnect in London this year. Attendees will hear strategies, best practices and first-hand experiences to help solve their most pressing workforce challenges today and anticipate those of the future.”

SuccessConnect in London offers inspiring keynotes from executives such as SAP SuccessFactors President Greg Tomb and SAP Chief Human Resources Officer and Executive Board Member Stefan Ries, as well as countless ways to connect with peers and industry experts. New this year are meetups, where attendees can join their peers for casual networking and conversation. Six breakout tracks with multiple sessions will be available for HR leaders to learn from SAP experts, partners and customers about how to combine people potential with innovative technology to transform businesses, connect employees to purpose and drive results across the enterprise.

SAP partners play a strategic role in helping companies of all sizes — across all industries and geographies — buy, build, implement, service and support SAP SuccessFactors solutions. The diamond-level sponsor for SuccessConnect 2019 in London is [Deloitte](#). Platinum-level sponsors are [PwC](#), [GP Strategies](#), [Kronos Systems](#) and [NGA Human Resources](#).

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Polygonica Exhibits at NAFEMS for the First Time

5 June 2019

Polygonica is a software development toolkit (SDK) delivered as a set of software libraries to be embedded into customers’ products. The engines and algorithms in Polygonica allow software OEMs to concentrate their focus more closely on the needs of their customers and to rapidly bring to market new, unique and competitive solutions.

Along with Windows, Linux and Mac desktops Polygonica can be deployed on public or on-premise clouds offering large manufacturers the opportunity to better automate and customise workflows, tailoring operations to the specific requirements of that business and reducing time-consuming manual operations.

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Polygonica is the de-facto standard for automatic mesh-healing within the Additive Manufacturing industry with reference integrations including 3D Systems 3DXpert and 3DSprint, 3D Systems Cimatron/E, ANSYS Discovery Live and Spaceclaim, Desktop Metal Fabricate, Live Parts and Fab Flow, Renishaw ADEPT, Renishaw Dental Manufacturing System and Stratasys GrabCAD Print.

Additive Manufacturing and CAE vendors are increasingly using advanced polygon modelling capabilities. At the NAFEMS Conference, you can hear more from Richard Baxter, Sales Manager of Polygonica on Wednesday, the 19th at 14.05:

https://www.nafems.org/downloads/nwc19/nwc19_preliminary_agenda_v6_nafems.pdf

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PROS to Present at Stifel 2019 Cross Sector Insight Conference

5 June 2019

PROS announced that Stefan Schulz, CFO, and Shannon Tatz, Vice President of Investor Relations, will present at the Stifel 2019 Cross Sector Insight Conference. The conference will be held at the InterContinental Boston Hotel in Boston, Massachusetts on June 10 - 12, 2019. Schulz and Tatz are scheduled to speak on Wednesday, June 12, 2019, at 10:55 a.m. EDT.

The audio presentation will be webcast live here and will also be available by visiting the “Investor Relations” section of the company’s website. The webcast will be archived on the company’s website for 90 days after the conference ends.

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SAP.iO Kicks Off First Accelerator Focused on Women and Diverse-Led Startups in Enterprise Tech in Europe

28 May 2019

SAP today kicks off the first women and diverse-led cohort as part of the SAP.iO Foundry Berlin acceleration program.

The 2019 summer cohort includes six startups from across the globe, all comprising diverse founder teams. The program is part of the SAP.iO No Boundaries initiative, which aims to further embed inclusion in SAP’s culture, in the cultures of its customers and in the startups with which SAP engages.

The flagship SAP.iO Foundry Berlin provides select startups with access to curated mentorship and exposure to SAP technology and application programmable interfaces (APIs), as well as opportunities to collaborate with SAP enterprise customers.

“Put simply, diversity is not only good for business, it is good business,” said Judith Williams, chief diversity and inclusion officer, SAP. “A commitment to a diverse future will pay economic and social dividends. With SAP.iO Foundry Berlin, we’re taking a real and measurable action to increase inclusion. While intelligence is equally distributed in the population regardless of background or experience,

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opportunity is not. We need to move from discussion to action and start building a diverse and inclusive technology ecosystem.”

These six Intelligent Enterprise startups are founded by diverse teams and offer software-as-a-service solutions that span across areas such as marketing and human resources, while utilizing machine learning, augmented reality and blockchain technologies. The accelerator program will run for 13 weeks and conclude with a “Demo Day” on August 7, 2019.

“We look forward to working with these six startups over the next three months to help them deliver winning outcomes and delightful experiences to customers,” said Ram Jambunathan, senior vice president and managing director, SAP.iO.

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Sustainable Brands Detroit: June 3-6, 2019

4 June 2019

Within a landscape of economic and political volatility, many of the world’s largest businesses are being cast as irrelevant, insincere. Disruptors and D to C brands are redefining the marketplace while established brands are struggling to maintain growth.

According to research conducted by both Sustainable Brands and Harris Poll, consumers are shifting away from the pursuit of money, status and personal achievement, focusing instead on balance, simplicity, along with greater connection to family, community and the environment as a foundation of a Good Life. Moreover, consumers are looking to brands to bring those elements into their daily lives and 80% of them say they will financially support brands who help them live a Good Life.

At SB’19 Detroit, brands can gain the tools they need to move from traditional marketing to mattering to people and learn how to incorporate the concepts of ‘balance,’ ‘simplicity’ and ‘moderation’ that consumers now crave. They can use science, technology, storytelling and unlikely partnerships to meet the underlying demand for The Good Life and ultimately win in the market.

Check out the Innovation Expo!

To learn more, including registration information, please visit <https://events.sustainablebrands.com/sb19det/about/>

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Implementation Investments

DLT Awarded 10-Year Department of Defense ESI Blanket Purchase Agreement for Autodesk Software

6 June 2019

DLT Solutions is proud to announce that it has been awarded a 10-year Department of Defense (DoD) Blanket Purchase Agreement (BPA) for Autodesk ([ADSK](#)) software. As Autodesk's [Master Government](#)

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[Aggregator](#), DLT and its partners are able to leverage this contract to equip government agencies with the Autodesk solutions they need for Computer-Aided Design (CAD), 3D Modeling, 2D Drafting, Product Data Management (PDM), Simulation/Computer-Aided Engineering (CAE), Product Lifecycle Management (PLM), Computer-Aided Manufacturing (CAM), Building Information Modeling (BIM), Advanced Real-Time Rendering, Mobile Access to CAD, Augmented/Virtual Reality, 3D Printing Solutions, and Support Services.

[DoD ESI](#) is an official DoD initiative sponsored by the DoD Chief Information Officer (CIO) to lead in the establishment and management of enterprise COTS IT agreements, assets, and policies. All awarded ESI BPA's are the Department of Defense preferred method of IT procurement in accordance with the Defense Federal Acquisition Regulation Supplement (DFARS) Section 208.74.

"DLT is very excited to have been awarded this DoD ESI BPA for Autodesk Solutions," commented DLT President, Brian Strosser. "As Autodesk's Master Government Aggregator, DLT will leverage this new contract to ensure DoD agencies have streamlined access to the latest Autodesk software innovations in 3D design, engineering, and entertainment software they need to support their national security mission."

For more than 25 years, DLT has been providing government agencies with Autodesk solutions that help users imagine, design, and make a better world. In 2018, DLT launched GovDesignHub, which is a publication catered to the digital design community within the public sector.

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French Retail Powerhouse Siplec Chooses Centric PLM to Streamline Operations

4 June 2019

Siplec, the company that handles the supply of manufactured products for retailer E.Leclerc, has selected Centric Software's Product Lifecycle Management (PLM) solution.

Founded in 1979, Siplec is an international company belonging to the E.Leclerc Group, a worldwide leader in retail. Historically a trader of petroleum products, Siplec is now a key player in the supply of manufactured products (apparel, home goods and other products) for 790 supermarkets and hypermarkets across Europe.

Siplec needed the means to handle diverse products and growth in new geographies with teams now spread across six offices in China, Vietnam, Bangladesh, India and Paris, France. The company looked for a PLM platform capable of managing all product-related functions in order to standardize operating procedures across the board.

"We wanted a solution with an architecture that allows us to manage our data flow quickly and supports a large number of users around the world to facilitate better international collaboration between retail and product teams," says Bruno Toulout, IT Manager at Siplec.

"In particular, we chose Centric because it is simple to deploy and because of Centric's Skyline architecture, which allows access to a massive amount of data and analysis of assumptions in real time. After implementing this solution, we anticipate concrete improvements in terms of productivity and shortening deadlines in order to reach our goal of excellence," Toulout continues.

"We are excited to partner with Siplec," says Chris Groves, President and CEO of Centric Software.

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"We are honored to collaborate with a major retail player in the international supermarket scene and very pleased that they have chosen Centric PLM to streamline and accelerate their product development process in pursuit of their goals of optimizing the retail experience and customer loyalty."

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Groupe Beneteau Leverages PTC's Windchill PLM Platform for Digital Transformation Initiatives

6 June 2019

PTC announced that [Groupe Beneteau](#) is using PTC's [Windchill](#)® Product Lifecycle Management (PLM) platform to create a digital thread for the development of its customized sailing yachts, powerboats, and luxury leisure homes. The iconic French boat builder recently rolled out a digital transformation initiative that covers both its industrial processes and the management of its commercial business. Developing synergies between its R&D, design, and manufacturing teams is helping to drive greater operational excellence and product differentiation.

To implement this transformation strategy across its production sites, Groupe Beneteau started with PTC's PLM platform to develop a digital thread throughout the product's lifecycle – from design, to product development, to manufacturing. The digital thread provides an integrated view of the product and delivers the right product information – including options and variants – to all stakeholders. This enables greater productivity, faster time-to-market of customizable boats, better product quality, and lower costs as scrap and rework requirements are reduced. With Windchill, Groupe Beneteau can make more informed decisions throughout the product development process and improve communication and collaboration. This initiative allows Groupe Beneteau to deliver a better customer experience with more product and service features and personalization options, and faster product delivery, all at lower prices.

"Our digital thread will be managed by PLM, which creates the backbone necessary to execute an Industrie 4.0 strategy. With a complete digital process, we will have the speed and flexibility to deliver our products with more features at a more competitive price," said Bertrand Dutilleul, Global CIO, Groupe Beneteau. "Through parallel work streams and a consistent digital thread of information running through our product's lifecycles, we will be able to personalize our products while reducing production time and errors. In addition, we will be able to reduce our stock of product components, due to the precision introduced into the manufacturing process. With these improvements, we expect to achieve significant and progressive operational cost savings and efficiencies."

Windchill, PTC's industry-leading PLM platform, makes it easier than ever to leverage a consolidated, up-to-date digital thread of product information, including connected data. Windchill's highly configurable out-of-the-box applications enable users to work faster and with more accuracy – reducing time-to-market, cutting costs, and improving quality. With Windchill, users across the value chain are able to interact with data dynamically in 3D – both on a screen and through augmented reality. With deployment options including cloud and on-premises, Windchill has the flexibility, performance, and scale that companies require to be industry leaders.

"Using PTC's Windchill PLM, Groupe Beneteau created a digital core, enabling them to design and build personalized products," said Kevin Wrenn, divisional general manager, PLM, PTC. "Having the digital thread in place also allows Groupe Beneteau to take it to the next level and develop a smart, connected factory that will include augmented reality (AR) for workers on the factory floor. We are excited to see how they continue to leverage emerging technologies and capitalize on the opportunity to

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use smart, connected products and AR for sales and marketing teams, dealerships, and customers.”

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Mad Beauty Selects Visual Next PLM

28 May 2019

Visual Next is delighted to announce that it has been selected by a UK leader and award winner in design led cosmetics, Mad Beauty, to provide an End2End suite of tools for the business.

Mad Beauty has chosen to implement the Visual Next Suite to harmonize the business, they will utilize the Visual Next's PLM, ERP, SFA and BI tools, to give the wider business access and visibility as well as control of their processes. Mad Beauty's business processes will be completely streamlined, their current manual processes will be eliminated thanks to the implementation of the Visual Next End2End Omnichannel Solution.

Visual PLM will help give their business total control of the often complex product development process, with a multilevel Bill of Material, greater control and visibility across the whole process will improve productivity and reduce errors, especially where compliance and testing is of paramount concern, while Visual ERP and Visual BI will give them access to real-time reporting and statistics, additionally SFA will allow their sales team and agents alike the ability to view and create real-time orders via a browser, enabling them to react to demand far more robustly and confidently.

Trevor Cash, Managing Director of Mad Beauty explains, “Working with Visual Next will offer Mad Beauty a standardized model and a process to grow the bottom line as well as introduce a system that will foster greater productivity. This will give our team the correct set of tools to deliver on the overall direction the business is taking.”

Visual Next is the appropriate and distinct choice for the gift and cosmetic industry as there is a synergy in the process between both industries. Another primary stand out was the ability to hold a multi-level bill of materials, giving the necessary level of visibility for the complex nature of the cosmetics.

Dave Hampson, Visual Next UK Business Development Director, has said the team are eager to start working with the Mad Beauty team, Visual Next is proud to be able to begin a journey with them, which will lead to a greater level of visibility across departments, ensuring early adoption and increased productivity at a very early stage of the deployment.

“Visual Next is known for our Out-of-the-Box solution built for quick deployment and powerful configuration to accommodate unique products.”

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Modulus Consulting Uses Ideate Software Solutions to Streamline Revit Workflows

6 June 2019

[Modulus Consulting](#) helps project teams leverage the power of building information modeling (BIM) by providing services from BIM implementation mentoring to architecture, engineering, and construction design modeling; pre-construction coordination; and construction fabrication modeling. To save time

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and increase the accuracy of its models, Modulus uses Ideate BIMLink, Ideate Explorer, and IdeateApps. Ideate Software developed these Autodesk Revit applications to streamline workflows in the architecture, engineering, construction, and owner (AECO) community.

Victor Castillo, a BIM Product Manager at Modulus said, “I got hooked on Ideate BIMLink 10 years ago when I was at a global architecture firm. When I joined Modulus, I recommended that we get the software.” Modulus Consulting now also uses Ideate Explorer and IdeateApps:

- [Ideate Explorer](#): Victor encourages his team to leave Ideate Explorer open, so it’s readily available to use for even rudimentary tasks like selecting hidden objects instead of visually looking for them. The team also uses Ideate Explorer to select all linked Revit models to verify they’re pinned or quickly get a sense of how many family types or instances are in the model.
- [Ideate BIMLink](#): Where Ideate Explorer lets Modulus manage or manipulate small groups of elements, Ideate BIMLink lets them manage the model content on a greater scale. For instance, they use it to merge facilities management data in and out of project parameters.
- [IdeateApps SmartDelete](#): Although designed to warn users of elements that will be deleted with a selection, Modulus uses it to help locate any views that have annotations attached to an object before moving it, so they can make sure tags and dimensions on all views still read cleanly.
- [IdeateApps Clone](#): Modulus uses Clone to automate the process of duplicating sheets, saving time and reducing the chance of errors.

“In 2015, Modulus Consulting and Ideate Software entered into partnership to provide complementary services to the AECO community,” said Bob Palioca, president, Ideate Software. “That Modulus uses our applications and recommends them to their clients is a true testament of their trust in us.”

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REGENXBIO Selects Skyland PIMS™ as their Process and Product Data Management Software System

3 June 2019

Skyland Analytics announced that REGENXBIO has selected Skyland PIMS Process Information Management Suite for management and analysis of product, process and patient data throughout their development and manufacturing supply chain. REGENXBIO is a global leader in the development of gene therapies in retinal, metabolic and neurodegenerative indication areas.

"Skyland PIMS was designed to meet specific needs of the biopharma industry related to collaboration and data security across external product development and manufacturing networks while meeting FDA standards for data integrity and validatability," said Robert Di Scipio, CEO of Skyland Analytics. "We are pleased REGENXBIO has chosen Skyland to provide data management and analytical tools that enable product development and manufacturing teams to keep pace with the remarkable science coming out of research and the life-changing results seen in the clinic."

The FDA expects more than 200 investigational new drug applications (INDs) per year by 2020 with many of them being cell and gene therapies.¹ This increase in approvals combined with vast amounts of data being generated throughout the product lifecycle of precision medicine therapies has life science innovators looking for better ways to organize and analyze product, patient and process data to ensure

integrity and accelerate time to market.

Skyland PIMS is a purpose-built, cloud-based, 21 CFR Part 11 compliant workspace that centralizes management of critical development, manufacturing, patient and quality data required for business and regulatory reporting. It ensures data transparency and integrity throughout the product lifecycle and across the global supply chain.

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Socionext Adopts the Cadence Full-Flow Digital and Signoff Tools for 7nm Designs

4 June 2019

Cadence Design Systems, Inc. announced that Socionext used the Cadence® full-flow digital and signoff tools for the successful production tapeout of its latest large, 16nm ASIC chip and has built a design environment for its 7nm designs. Using the capabilities of the integrated full flow, Socionext sped design closure on its 16nm design when compared with its previous solution.

The Socionext certified flow for the 16nm and 7nm designs includes the Cadence Genus™ Synthesis Solution, Cadence Conformal® Equivalence Checker, Cadence Innovus™ Implementation System, Cadence Quantus™ Extraction Solution, Cadence Tempus™ Timing Signoff Solution, Cadence Voltus™ IC Power Integrity Solution, and Cadence Physical Verification System (PVS). For more information on the Cadence full-flow digital and signoff tools, please visit www.cadence.com/go/dsgfullflow.

In particular, the Tempus Timing Signoff Solution enabled the Socionext team to meet design productivity goals for its 16nm production designs by using the Tempus SmartScope hierarchical models. The Tempus SmartScope models facilitate hierarchical static timing analysis (STA) signoff and signoff-accurate engineering change orders (ECOs) by letting users dynamically abstract portions of the design so they can analyze blocks with accurate chip-level context. Additionally, the Voltus IC Power Integrity Solution enabled Socionext to reduce electromigration (EM) analysis turnaround time by 60 percent, which is critical for 16nm and below FinFET process technologies.

For Socionext's 7nm design, the Innovus Implementation System's Flex H-Tree capability in particular has already proven to be critical in enabling power, performance and area (PPA) benefits. The Flex H-Tree is an advanced clock synthesis technology that enables users to consider floorplan blockages and power tradeoffs, allowing Socionext to meet its target goal for clock skews.

“As a leading ASIC and ASSP product supplier for various market segments, power, performance and area as well as overall turnaround time are incredibly important to us,” said Mr. Takuya Yasui, General Manager of LSI Development Division, Automotive & Industrial Business Group at Socionext Inc. “We have successfully used the Cadence full-flow digital and signoff tools to deliver multiple chips at 16nm and have chosen the Cadence flow as our plan of record for both our 16nm and 7nm designs. Our close collaboration with Cadence was essential for our 16nm design success, and the Cadence full flow is now also an integral part of our development of future 7nm products.”

“We recognize that the ASIC and ASSP market presents growing competitive requirements and design challenges, including added design complexity and shorter time-to-market demands,” said Dr. Chin-Chi Teng, senior vice president and general manager of the Digital & Signoff Group at Cadence. “Cadence has collaborated with Socionext to successfully deploy the Cadence full-flow digital and signoff tools to

help achieve design success. We look forward to continuing to support them with future designs.”

From synthesis through implementation and signoff, the Cadence integrated full-flow digital and signoff tools provide a fast path to design closure and better predictability. The digital and signoff full flow supports the company’s overall Intelligent System Design strategy, which enables system and semiconductor companies to create complete, differentiated end products more efficiently.

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Product News

Abvent releases Revit 2020 export plug-in for Artlantis

30 May 2019

Abvent has released a [new Artlantis export plug-in for Revit 2020](#). Users can now export from Revit 2020 to Artlantis 2019, 7 and 6.5.

For a full list of Artlantis plug-ins, [please click here](#).

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Cadence Introduces the Spectre X Simulator, a Massively Parallel Circuit Simulator Delivering Up to 10X Faster Simulation with the Same Accuracy

3 June 2019

Cadence Design Systems, Inc. announced the Cadence® Spectre® X Simulator, a massively parallel circuit simulator designed to provide up to 10X performance gains, while maintaining the golden accuracy customers have come to expect from 25 years of Spectre industry leadership in analog, mixed-signal and RF applications. The new Spectre X simulator can solve 5X larger designs when compared to previous simulation solutions, enabling customers to effectively simulate circuits containing millions of transistors and billions of parasitics in a post-layout verification flow.

The new Spectre X simulator offers customers the following benefits:

- **Proven Accuracy:** The Spectre X simulator delivers the same golden accuracy as previous generations of Spectre simulators, which analog designers have relied on for years. For users that want to trade off accuracy for performance, the Spectre X simulator provides a single control that lets users easily determine the right accuracy/performance tradeoff needed for their particular design.
- **Massively Distributed Simulation:** The solution enables users to distribute time-domain and frequency-domain simulations on hundreds of CPUs and take advantage of the scalability of data center or cloud infrastructure.
- **Faster Runtime:** Utilizing better numerical techniques and modern compute hardware, the Spectre X simulator offers up to 10X faster simulation on 5X larger designs without sacrificing accuracy.

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- **Ease of Adoption:** Built on the principles that have made the Spectre circuit simulator the industry gold standard, the Spectre X simulator uses the existing foundry-certified device models without modification. Additionally, the Spectre X simulator supports existing Spectre design flows such as the Cadence Virtuoso® ADE Product Suite, Virtuoso RF Solution, Legato™ Reliability Solution, and Liberate™ Characterization Suite.
- **Mixed-Signal Support:** The Spectre X simulator is tightly integrated with the Cadence Xcelium™ Parallel Logic Simulation for mixed-signal verification using Spectre AMS Designer, providing full support for mixed-signal behavioral languages and real number modeling methodologies.

“The Spectre X Simulator marks the next generation of trusted simulators from Cadence, providing customers with the accuracy and speed needed to complete their designs efficiently to meet aggressive time-to-market goals,” said Tom Beckley, Cadence senior vice president and general manager, custom IC and PCB Group. “We have multiple customers already using the Spectre X simulator, and they are experiencing excellent results. With its massively parallel technology, faster runtime, and greater capacity, it’s the ideal simulator for use on advanced-node, analog, RF and mixed-signal designs.”

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CGTrader Launches Complete, Easy-to-deploy Augmented Reality (AR) Solution for e-Commerce at AWE 2019

29 May 2019

[CGTrader](#) announced a new Augmented Reality (AR) solution for e-Commerce, [CGTrader ARsenal](#), which represents a breakthrough in the way retailers plan, implement and finance 3D product visualization. CGTrader ARsenal includes all solutions and services required to easily deploy AR for online stores, enabling shoppers to experience products in an immersive, interactive environment. Retailers and brands adopting the CGTrader ARsenal solution can also dramatically reduce the need for expensive product photo-shoots as the 3D models can be based on images from a product link or even a photo taken with a mobile phone.

By enabling online shoppers to interact with products before purchasing as they would in a brick and mortar store, Augmented Reality has been proven to increase sales conversion, reduce product returns and increase online engagement.

"Working with retailers and brands to bring augmented reality experiences to their online shoppers, we see that they are eager to adopt AR to keep up with buyers' expectations, but often lack the internal resources and expertise to implement it," said Dalia Lasaitė, CEO, CGTrader. "With the introduction of CGTrader ARsenal, we are making it possible for any retailer to offer their customers feature-rich, full Augmented Reality with minimal effort, which we believe will lead to widespread industry AR adoption."

The CGTrader ARsenal complete AR Solution includes:

- Photorealistic 3D modeling for any volume of products/SKUs
- Seamless AR integration with the retailer's online store using single-click embedded links
- Flexible 2D-to-3D Product Conversion Plans based on monthly volume and budget requirements

CIMdata PLM Industry Summary

- Integrated 3D Model Viewer
- Centralized 3D Model portal for easy 3D model management and storage

One of the first retailers to adopt CGTrader ARsenal is [Fatboy](#), a company that creates, markets and sells premium, high-quality indoor and outdoor lifestyle products, including the iconic Fatboy Original bean bag chair.

"Our products are surprising and oversized. Augmented Reality with a turnkey approach is the perfect solution to enable our customers to experience our products online and accurately visualize how they will look in their home environment. CGTrader ARsenal solution is a great fit for us, as it will help accelerate our roll-out of AR with minimal effort and resources while capturing the unique beauty of our premium products," said Tom de Vos, E-com Director, Fatboy.

3D models developed using CGTrader ARsenal are optimized and available on both Apple AR Quick Look and Android ARCore Scene Viewer which come standard on Apple and Android mobile devices respectively. No additional software is required to experience the 3D models in augmented reality on mobile iOS and Android devices.

CGTrader ARsenal is available immediately.

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Clear Flow Matrix Introduces Construction Scheduling Software that Delivers Powerful Scheduling and Resource Management Tools

30 May 2019

Clear Flow Matrix announced the launch of Balanced WorkFront, a construction management software that delivers powerful scheduling and resource management tools to commercial construction project engineers, project managers, schedulers, and superintendents. Balanced Worked is also used by project owners and developers to quickly assess project status and projected finish dates.

Balanced WorkFront is the culmination of three decades of research and represents an evolution beyond CPM and lean construction methodologies. Visually, Balanced WorkFront is a two-dimensional grid composed of work areas and trade work activity with an embedded timeline component, and is a simple and powerful solution for organizing trades and coordinating flow to meet the project schedule.

"We originally designed Balanced WorkFront as a straightforward visual management tool for our remote staff," explained Wayne Lott, Chief Executive at Clear Flow Matrix. "As our research into lean construction and takt time evolved, we incorporated it into Balanced WorkFront, leading to the market-ready solution we have today."

The research surrounding Balanced WorkFront was the subject of a Masters' thesis by Augusto V. Tiezzi and was published by the University of Texas at Austin.

"Our investments have always been in research that moves construction forward as an industry," said Lott. "Balanced WorkFront is the fruit of those labors."

"BIM software is seeing increasing adoption in construction companies and corporate construction departments," related Rex Bull, Clear Flow Matrix's Chief Marketing Officer. "While these tools are rich in information, their complexity can make them hard to use for personnel without a specific skillset."

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Anyone can pick up and master Balanced WorkFront, extending its value across the entire organization.”

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Graitec announces the launch of its new Graitec Advance Suite 2020

5 June 2019

[GRAITEC](#), an Autodesk® Platinum Partner across Europe, with new locations in Spain and Portugal joining the group in 2019, adding to locations across the US, Canada and Russia, continues its expansion worldwide and is delighted to announce the launch of the Graitec Advance 2020 suite, providing unrivalled modelling, design & detailing software solutions to the AEC and Fabrication markets.

Graitec Advance offers a set of software extending the life of Autodesk BIM models through the whole workflow, Graitec products are split into 4 sections, to help our customers perform initial concept to fabrication:

- **DESIGN** : Using Autodesk products and enhanced with Graitec PowerPacks
- **SIMULATE** : Run advanced FEM simulations and optimize your designs according to construction codes
- **FABRICATE** : Take design intent through the finished fabricated product and site delivery
- **MANAGE** : Manage all your company W.I.P. data and I.P. before collaborating with external CDEs

With 100 000+ customers around the world, Graitec has continuously strived to provide best in class advancements for innovative software solutions. Graitec Advance 2020 is a major step forward with hundreds of new features on different domains, proving this suite is top of its game for assuring the continuity of the digital information through BIM workflows and providing efficient simulation and fabrication solutions to top-level Construction, Architecture, Engineering and Building Design companies worldwide.

To view the full release with multimedia, please visit <https://www.graitec.com/graitec-announces-the-launch-of-its-new-graitec-advance-suite-2020/>

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Requirements Engineering Now Available on the Aras Platform

6 June 2019

[Aras](#) announced that its Requirements Engineering application, a next generation solution for managing requirements within a PLM platform, is now available.

The rising complexity of products and systems across the industrial landscape and the ever-expanding regulatory environment is driving the need for transformational technologies to manage requirements in the context of total product configuration at every step of the lifecycle. Many organizations struggle with digital transformation because they rely on a combination of standalone requirements management tools

and monolithic documents. These organizations need an aligned technology that will accelerate their time to market by establishing traceability between different requirements types and related design artifacts and manage the related configurations on a single platform.

Aras Requirements Engineering enables end-to-end traceability across complex configurations in various design domains with requirements content representing various types of structured and reusable elements. Its ability to establish and maintain requirement relationships to platform-managed items and structures across all engineering domains is key to enabling a transformational methodology and platform for managing requirements.

With Aras Requirements Engineering, organizations will improve timeliness, cost control, and quality, have an ability to reuse requirements and content elements in various configurations, and allow bi-directional traceability between individual requirements and various design artifacts across all design domains and their lifecycles.

“Siloed management of requirements in monolithic documents prevents organizations from transforming to a truly traceable and collaborative process required for design of today’s complex products and systems,” said Pawel Chadzynski, Senior Director, Product Management, at Aras. “The Aras Requirements Engineering application, together with the Aras Innovator Platform, eliminates this obstacle.”

Availability

Requirements Engineering is available for 11 SP15 and subscribers can access it through the Aras FTP site and use the Aras update tool to install the solution.

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Selerant Unveils Enhanced Product Lifecycle Management (PLM) System for Food and Beverage Brands at IFT Expo

3 June 2019

[Selerant](#) has announced a new version of its flagship product, Devex PLM. The latest release, Devex 3.8, offers more deeply integrated product data management, labeling, compliance, and product portfolio analysis features that enable product developers to reduce bottlenecks in time to market while improving innovation decisions.

As part of this release, Selerant will be exhibiting at the 2019 IFT Annual Event and Expo on June 3-5 in New Orleans, Louisiana. Visit Selerant at booth 1257 to schedule a guided demonstration of the Devex PLM system.

“Manufacturers must meet an ever-increasing set of industry demands and product development needs, all while driving accelerated product time to shelf and remaining compliant,” said Jacopo Colombo, Selerant’s Chief Technology Officer. “The latest Devex 3.8 PLM platform helps manufacturers reduce product time to market and development costs with integrated tools and processes that boost the collaboration, visibility, harmonization, validation, and traceability of data and actions performed at every stage of the product management lifecycle.”

Devex 3.8 continues to offer a superior user experience for managing product lifecycle decisions with improved label creation, enhanced document collaboration options, and a new set of regulatory and

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Environment, Health and Safety (EHS) features.

With Devex 3.8, manufacturers can take advantage of:

- **New Innovation Management Dashboards:** Devex 3.8's Innovation Process Management suite offers new interactive, visual charts in its portfolio dashboard, enabling manufacturers to make quick, accurate decisions around new product development and launch.
- **Automatic Document Management:** Users across departments can more efficiently collaborate on the most up-to-date versions of product documents using an enhanced PDF viewer and annotation tool that automatically tracks note sharing, document markups, and document versioning.
- **Transparent Label Creation and Publishing:** Product developers can easily create and format nutritional facts panels, ingredient and allergen statements with Devex 3.8's new visual, intuitive and dynamic set of labeling tools. Publish labels in digital formats.
- **Updated EHS Legislation:** Manufacturers can stay informed with new legislative requirements in the hazardous chemicals market due to a new framework for the UFI codes management, support of ADR 2019, new GHS modules, and new regulatory analysis for detergents.
- **Robust Environmental Impact Analysis:** Additional configurations for food loss calculations in Selerant's Ecodex module allows manufacturers to more accurately track losses in food and packaging steps along with the environmental impact of production.

By unifying these critical aspects of New Product Development and Introduction (NPDI), Selerant continues to enable manufacturers to manage data-driven innovation, R&D, specification and formulation management, product portfolio management, compliance, and packaging all in one, which supports a seamless and continuous collaboration with suppliers and partners in a real-time quality monitoring solution.

Welch's, one of the largest juice producers in the world, stresses the importance of using one integrated platform that can not only facilitate digital PLM steps, but also act as the single source of truth for product data for more intelligent, competitive time-to-market timelines.

The company currently uses Devex PLM to respond to create more efficient, data-driven decision making around new product research and development.

“Devex has really transformed our ability to use more information faster and earlier on in the innovation process,” said Susan Kelley, Senior Research Scientist at Welch's. “When our sales team sees a need in the market for a product with a certain component, Devex enables us to jump on it. With the material cost function, we can quickly evaluate how new materials will impact our M&I targets. Our product developers can then search all of the experimental or current ingredients in our portfolio and instantly use them in new formulas. With the labeling tool, we can also provide customers with nutritional facts panels before they even see the product.”

By streamlining the process steps and data management required for more efficient, analytics-driven product launch, Selerant continues to expand its international portfolio of companies using the Devex system like Bacardi, Ghirardelli, Nestlé, Campari, Lindt, and many other leading global brands.

The IFT Expo will take place on June 3-5, 2019, and will showcase the latest innovations from technology leaders in the global food industry.

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Selerant will be located at booth 1257 in the Exhibit Hall. For more information on Devex, visit <https://www.selerant.com/formula-based-product-lifecycle-management-software>

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What's New in Onshape's Latest Update

5 June 2019

CAD IMPROVEMENTS

BILL OF MATERIAL ITEMS

We're excited to share a highly-requested feature for enhancing product bill of materials (BOMs).

Please note: You must be the company admin in order to add or change Items.

CALLOUT AND TABLE IMPROVEMENTS

This release includes numerous improvements for tables and the callout feature for ballooning drawings.

Fixed corners are applied to any type of table that you create.

Callouts can also now be created even without a leader. This can be useful for creating pure-text balloons, such as for revision markers or flag notes.

MORE PERFORMANCE IMPROVEMENTS

Another release means more performance improvements. With this release, you can expect to see improved performance on drawing view creation for assemblies with many repeated instances. You'll also see the material library dialog populate much more quickly than before.

VERSIONS AND HISTORY IN DETAILS PANE

Versions and History for an Onshape Document can now be conveniently viewed from the details pane, without having to open the Document.

ENTERPRISE IMPROVEMENTS

CUSTOM WORKFLOWS FOR RELEASE MANAGEMENT

You may now configure both the Release and Obsolescence workflows that your company utilizes within Onshape.

Configuration of these workflows can be completed by editing and uploading a .json file. For more information, please take a look at the Help Documentation.

ACTIVITY VIEW ON DETAILS PANE

The Activity Feed now shows the information about a Document, details of the Document's recent activity, and Document share permissions.

FEATURESCRIPT IMPROVEMENTS

GROUPING OF FEATURESCRIPT PARAMETERS

FeatureScript parameters can now be grouped to save space in input dialogs. A parameter group can be associated with a driving boolean parameter that hides or shows the group's parameters.

AUTOSUGGEST DEFINITION PARAMETERS

When defining a function's action, FeatureScript will now autofill available definition parameters from the precondition.

Please take a moment to try out these new features and improvements and leave your comments below. For a detailed list of all the changes in this update, please see the changelog.

Remember: The updates listed here are now live for all users when creating new Documents and over the next few days these features will also be available in Documents created before the date of this update.

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ZWSOFT Launches CADbro 2019 SP

4 June 2019

ZWSOFT announced the launch of CADbro 2019 SP, an easy-to-use and full-featured 3D CAD viewer. Some excellent capabilities have been introduced to realize better user experience, especially in 2D and 3D CAD data exchange.

Great Improvements for CATIA/SOLIDWORKS 2D Drawing Import

The improvements for CATIA/SOLIDWORKS 2D drawings import undoubtedly take the center position among the highlights of CADbro 2019 SP. More line types and dimension types can be recognized, and the accuracy of view transformation and text information (e.g. multiline text) has also been enhanced. In a word, users can enjoy better experience of 2D data interaction.

More User-Friendly Online Viewing and Annotating

[Cloud service](#) is one of the highlights of CADbro. In the 2019 SP version, the display effect and management in HTML format have been improved. For example, the dimensions will always be displayed with its front to users, and the ones far away from users will be shown as semi-transparent, to generate a more clear view. They can also choose which dimensions to be displayed via the navigator.

One more surprise, linear dimensions can be added to models on the cloud, enabling users to view and annotate models anytime and anywhere.


More Efficient 2D Drawing

Functions related to 2D drawing have also been upgraded to deliver higher efficiency. For example, Auto Dimension is supported to significantly save time for cumbersome work. Multiple dimensions, including the linear, radial/diametric and hole ones can be generated for the selected entities at a time. Moreover, inheriting PMI is supported.

There are also several smaller enhancements for a smoother operation. For instance, the rule of the Viewer Manager has been optimized, and users can toggle the transparency of entities via the right-click menu to make them visible or not.

To summarize, besides being more stable, CADbro 2019 SP delivers more powerful CAD data interaction and smarter annotation functions, bringing forth higher efficiency and effectiveness for team collaboration.

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