PLM Weekly Summary

Editor: CIMdata News Team

14 February 2020

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Acquisitions

Accenture Completes Acquisition of maihiro

12 February 2020

Accenture has completed its acquisition of maihiro, a provider of customer experience and customer relationship management consulting, optimization and ongoing enhancement services. Accenture had announced its intent to acquire the company on January 7, 2020. Financial terms of the transaction were not disclosed.

Founded in 2000 and an SAP® Gold Partner, maihiro is a leading provider of SAP-based customer experience (CX), customer relationship management (CRM), and commerce services. The acquisition will help Accenture create solutions for clients that drive innovation and transformation in marketing, sales and customer service. With headquarters in Munich, maihiro has approximately 160 skilled consultants in offices across Germany and Austria.

As part of Accenture's strategy to help enable clients to gain the most value from SAP solutions, in May 2019, Accenture and SAP announced that they are co-developing and co-innovating to accelerate development of the SAP® C/4HANA platform and build industry-specific solutions that elevate digital customer experiences. In November 2018, Accenture also acquired U.S.-based Intrigo Systems, a leading provider of advisory and systems integration services for SAP enterprise and cloud solutions in e-commerce, supply chain and procurement.

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Cadence Furthers Expansion in 5G RF Communications with Acquisition of Integrand

14 February 2020

Cadence Design Systems, Inc. announced that it has acquired Integrand Software, Inc. to further accelerate innovation in the 5G RF communications space. Integrand's EMX® technology has the industry-leading Method of Moments (MoM) solver technology for analysis and extraction and enables designers to accurately and efficiently simulate large integrated circuits (ICs) and advanced packages, characterize passive components and analyze interconnect parasitics in 3D-IC systems.

Executing upon the Cadence® Intelligent System Design™ strategy, the integration of Integrand EMX with the Cadence Virtuoso®, Sigrity™, Clarity™ and AWR® solutions offers customers a complete electromagnetic signoff solution.

The terms of the transaction were not disclosed.

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Infosys to Acquire Simplus, a Leading Salesforce Consulting and Platinum Partner

11 February 2020

Infosys announced a definitive agreement to acquire Simplus, one of the fastest growing Salesforce Platinum Partners in the USA and Australia. Simplus is a recognized leader and advisor in cloud consulting, implementation, data integration, change management and training services for Salesforce Quote-to-Cash applications.

This acquisition, coupled with the acquisition of Fluido announced in September 2018, further elevates Infosys' position as an end-to-end Salesforce enterprise cloud solutions and services provider, offering clients unparalleled capabilities for cloud-first digital transformation.

Simplus brings to Infosys globally recognized Salesforce expertise, industry knowledge, solution assets, deep ecosystem relationships and a broad clientele, across a variety of industries including high-tech, financial services, retail, healthcare, life sciences and manufacturing. It has offices across North America, Sydney, Melbourne, London, and a large delivery center in Manila.

Pravin Rao, Chief Operating Officer, Infosys, said, "The acquisition reaffirms our continuous endeavor to strengthen our strategy of scaling our Agile Digital and cloud-first digital transformation capabilities. This acquisition is key to staying relevant to the digital priorities of our clients and demonstrates our commitment to the Salesforce ecosystem. The strategic combination of scalable and agile global delivery capabilities of Simplus complements our effort to help global enterprises to transform their businesses. We are excited to welcome Simplus and its leadership team into the Infosys family."

Ravi Kumar, President, Infosys, added, "Simplus will be a valuable addition to the Infosys family. Complementing our industry knowledge and existing Salesforce footprint with their strong presence in key markets, deep Salesforce consulting and advisory expertise will help accelerate the transformation journey of incumbent companies. With this strong addition to our portfolio, we look forward to unlocking additional value for our clients."

Ryan Westwood, CEO & Co-Founder, Simplus said, "We are thrilled to be partnering with the Infosys team. We have viewed this partnership from a culture-first lens from the beginning, and we believe that the alignment of our company values, and the preservation of our company DNA will allow us to accelerate growth and together become the strongest and most respected partner in the Salesforce ecosystem."

Isaac Westwood, COO & Co-Founder, Simplus, added, "Infosys has incredible global scale and breadth, and joining forces gives us a powerful value proposition to enable global digital transformations."

The acquisition is expected to close during the fourth quarter of fiscal 2020, subject to customary closing conditions.

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Social impact firm Purpose joins Capgemini

14 February 2020

Capgemini announced the signing of an agreement to acquire Purpose, one of the world's leading social impact agencies and hub for campaign innovation, headquartered in New York with outlets across the globe. The expertise of Purpose's 100 campaigners, creatives, strategists and technologists, combined with Capgemini Invent, the digital innovation, consulting and transformation brand of the Capgemini Group, will further support clients to transform their business models and practices for impact, and

engage their stakeholders in making meaningful contributions to society.

Founded in New York in 2009, Purpose has spent the last decade building a footprint and reputation for enabling impact across six continents by creating purpose-driven campaigns, branding, creative content, and participatory social impact strategies to a blue-chip client roster. It has launched major initiatives on issues ranging from refugees to international LGBT rights and established relationships with global brands and corporations, major philanthropies, the UN system, and many of the world's leading civil society organizations.

"Heightened demands from stakeholders have driven a major shift towards building business with purpose. For many large companies, this has evolved beyond corporate social responsibility to business transformation and the need for a redefinition of business models, practices and culture," comments Cyril Garcia, CEO of Capgemini Invent and Member of the Group Executive Board. "Purpose joining Capgemini will bolster the capabilities of our teams that are working closely with senior executives and boards, to envision and build what's next for their organization. Placing a positive contribution to society at the core of what they do, rethinking their commitment to Sustainable Development Goals, and committing to strong action on climate change, are the new imperatives for a sustainable business in the coming years."

As an agency Purpose helps clients harness participation for meaningful social impact. Its market-leading capabilities will offer the Capgemini Group's clients a critical dimension to their business transformation strategy as well as new sources of shared value creation. Purpose's approach consists of four key components: its Labs that develop new public engagement innovations on the most important issues of the day such as climate change and international development; the agency team which develops social impact strategies, builds campaigns and crafts creative content; innovative technology that underpins its services including measurement and training tools; and finally, a host of methodologies that foster participation and help move people to action. Each of these elements work hand in hand to shape and deliver effective and impactful campaigns.

"Operating at the intersection of purpose, participation and digital, our teams of experts have spent the last decade collaborating with the world's leading nonprofits, philanthropists and companies – helping them to put purpose and participation at the center of what they do," comments Jeremy Heimans, CEO and co-founder of Purpose. "By joining the Capgemini Group, we can truly take Purpose to the world — dramatically growing our scale and impact at a crucial moment for so many of the issues we care about. Capgemini Invent, combined with the wider Group's scale, offers us access to vast technological capacity, unrivaled data and analytics, and a deep understanding of how to change organizations and business models from the inside out. This opens up extraordinary possibilities for the campaigns that we can create and the global organizations that we can advise and support."

Purpose will continue to operate as a Public Benefit Corporation[1] in pursuit of its mission of advancing a more open, just and habitable world. The parties intend for Purpose to be run independently as previously, and for senior management to remain in place. It will operate within the Capgemini Group under a policy of "Editorial Independence," ensuring that Purpose retains its own unique and prominent voice and perspective on major global issues.

Synopsys Completes Acquisition of Certain IP Assets from INVECAS
14 February 2020

Synopsys, Inc. announced that it has completed its acquisition of certain IP assets from INVECAS. This

acquisition broadens Synopsys' DesignWare® Logic Library, Embedded Memory, General Purpose I/O, Analog, and Interface IP portfolio. The acquisition also adds a team of experienced R&D engineers to accelerate Synopsys' physical IP roadmap across a range of process technologies to address customers' evolving design requirements in markets such as consumer, IoT and automotive. INVECAS will retain its HDMI IP and ASIC Design Solutions.

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Company News

Accenture Technology Vision 2020: From Tech-Clash to Trust, the Focus Must Be on People
13 February 2020

To compete and succeed in a world where digital is everywhere, companies need a new focus on balancing "value" with "values," aligning their drive to create business value with their customers' and employees' values and expectations, according to Accenture Technology Vision 2020. The 20th edition of Accenture's (NYSE: ACN) annual report predicts the key technology trends that will redefine businesses over the next three years.

According to the 2020 report, "We, The Post-Digital People: Can your enterprise survive the 'tech-clash?," even though people are embedding technology into their lives more than ever before, organizations' attempts to meet their needs and expectations can fall short. As companies enter the decade of delivering on their digital promises — and in a world where digital technology is everywhere — a new mindset and approach is required.

While some have referred to today's environment as a "tech-lash," or backlash against technology, that term fails to acknowledge the extent to which society is using and benefitting from technology. Rather, it's a tech-clash — a clash between business and technology models that are incongruous with people's needs and expectations.

Of the more than 6,000 business and IT executives worldwide that Accenture surveyed for the Technology Vision report, 83% acknowledge that technology has become an inextricable part of the human experience. As part of the research this year, Accenture also surveyed 2,000 consumers — 70% of whom expect their relationship with technology to be more or significantly more prominent over the next three years.

"Dazzled by the promise of technology, many organizations created digital products and services just because they could, without fully considering the human, organizational and societal consequences," said Paul Daugherty, Accenture's chief technology & innovation officer. "Today we're seeing a tech-clash caused by the tension between consumer expectations, the potential of technology, and business ambitions — and are now at an important leadership inflection point. We must shift our mindset from 'just because' to 'trust because' — reexamining our fundamental business and technology models and creating a new basis for competition and growth."

According to the report, continuing with existing models doesn't just risk irritating customers or

disengaging employees, but could permanently limit the potential for future innovation and growth. But tech-clash is a challenge that can be solved. The Technology Vision identifies five key trends that companies must address over next three years to defuse tech-clash and realize new forms of business value that will be driven in part by stronger, more trusting relationships with stakeholders:

The I in Experience. Organizations will need to design personalized experiences that amplify an individual's agency and choice. This turns passive audiences into active participants by transforming one-way experiences — which can leave people feeling out of control and out of the loop — into true collaborations. Five in six business and IT executives surveyed (85%) believe that competing successfully in this new decade requires organizations to elevate their relationships with customers as partners.

AI and Me. Artificial intelligence (AI) should be an additive contributor to how people perform their work, rather than a backstop for automation. As AI capabilities grow, enterprises must rethink the work they do to make AI a generative part of the process, with trust and transparency at its core. Currently, only 37% of organizations report using inclusive design or human-centric design principles to support human-machine collaboration.

The Dilemma of Smart Things. Assumptions about who owns a product are being challenged in a world entering a state of "forever beta." As enterprises seek to introduce a new generation of products driven by digital experiences, addressing this new reality will be critical to success. Nearly three-quarters (74%) of executives report that their organization's connected products and services will have more, or significantly more, updates over the next three years.

Robots in the Wild. Robotics are no longer contained to the warehouse or factory floor. With 5G poised to rapidly accelerate this fast-growing trend, every enterprise must re-think its future through the lens of robotics. Executives are split in their views of how their employees will embrace robotics: 45% say their employees will be challenged to figure out how to work with robots, while 55% believe that their employees will easily figure out how to work with them.

Innovation DNA. Enterprises have access to an unprecedented amount of disruptive technology, such as distributed ledgers, AI, extended reality and quantum computing. To manage it all — and evolve at the speed demanded by the market today — organizations will need to establish their own unique innovation DNA. Three-quarters (76%) of executives believe that the stakes for innovation have never been higher, so getting it "right" will require new ways of innovating with ecosystem partners and third-party organizations.

Disrupters are already taking steps to address the gap between people's expectations and today's standards. For example, startup Inrupt is working on a data-linking architecture called Solid, which is designed to give people more control over their personal information by allowing them to store and use their data across the web through "pods." People could decide where their pods are hosted and determine which companies or machines can access them — revoking or deleting their information at any time, catalyzing Inrupt co-founder Tim Berners-Lee's original vision of a web of opportunity for everyone. This is precisely the kind of human-centered approach that will define leading organizations in the future.

For 20 years, Accenture has taken a systematic look across the enterprise landscape to identify emerging technology trends that hold the greatest potential to disrupt businesses and industries. For more information on this year's report, visit www.accenture.com/technologyvision or follow the conversation on Twitter with #TechVision2020.

Oracle and Microsoft Bring Enterprise Cloud Interoperability to European Customers

13 February 2020

Oracle and Microsoft are extending their cloud partnership with a new cloud interconnect location in Amsterdam. This is good news for the many local businesses that rely on software from both companies. The new Amsterdam interconnect will enable these businesses to share data across applications running in Microsoft Azure and Oracle Cloud.

The facility in Amsterdam—a strategic data center hub for Europe—joins interconnected regions already up and running in Toronto; Ashburn, Virginia; and London, and is part of a broader Oracle-Microsoft cloud interoperability partnership announced last year.

The goal of the overall collaboration is to make it faster and easier for enterprises to move their on premise workloads to the cloud that best suits the specific needs of an application. For example, an enterprise customer may want to run a Windows-based applications on Microsoft Azure connected to Oracle's Autonomous Database or Exadata on Oracle Cloud Infrastructure. Or they may want related Microsoft-centric and Oracle-centric apps to communicate in the cloud in a low latency way.

MESTEC is using Oracle Cloud—Microsoft Azure to deliver solutions to its customers that enable them to dramatically improve their manufacturing performance.

"MESTEC's leading smart factory solution is powered by high performance cloud infrastructure and database systems. We put Azure and Oracle Cloud to the test by implementing our application tier in Azure connected to Oracle Autonomous Database, running on Oracle Cloud Infrastructure, and the results have been extremely positive," said Mark Carleton, COO, MESTEC. "We are projecting a 50 percent reduction in infrastructure and management cost and up to 500 percent increase in performance. By connecting Oracle and Azure, we're able to rapidly introduce innovative technologies into our solution, ultimately resulting in a better, smarter solution for our customers enabling them to make dramatic improvements in manufacturing performance."

This partnership and the resulting interconnected cloud is important for businesses that want to put more of their data and workloads into the cloud but prefer to use cloud providers attuned to their mission-critical data and applications. In addition to offering a high degree of choice and flexibility, Oracle and Microsoft offer integrated identity and access management so customers don't have to manage multiple passwords when accessing their cloud resources and applications. The collaborative support model and global partner ecosystem add to the enterprise-class experience.

In a recent study, global systems integrator Accenture found that customers using the interconnect can expect performance to meet the demands of latency-sensitive applications. Accenture's tests found dramatically reduced latency, the average round-trip latency was 1.5 milliseconds.

Amsterdam is not the end of the story. Oracle and Microsoft plan to interconnect additional cloud regions on the U.S. West Coast, Asia, and regions dedicated to U.S. public sector customers.

Maplesoft Announces Direct Operations in Japan

14 February 2020

Maplesoft announced that they will be starting direct operations in Japan as of April 1, 2020. Maplesoft Japan will provide sales and technical support for Maple, the technical computing and calculation

management software, and MapleSim, the advanced system-level modeling and simulation tool, as well as related products.

"With expert staff dedicated exclusively to supporting Maple and MapleSim customers, our new office will offer increased services and support to our Japanese customers in both the commercial and academic markets," says Takashi Iwagaya, Vice President, Technical Strategy, Maplesoft.

Maplesoft's parent company and current reseller in Japan, Cybernet Systems, will continue to be the first point of contact for Japanese customers for some Maplesoft products and offerings. These include MapleMBSE, which supports a model based systems engineering approach to requirements management, the Maple Design of Experiments Toolbox, and the MapleCLASS package for universities.

During the transition period, Cybernet Systems will continue to be the point of contact for all sales and support questions. After April 1, the two companies will continue to collaborate closely, resulting in improved products, access to Cybernet Engineering Consulting Services, and enhanced services that will be accessible to all users of Maplesoft products in Japan.

"We are excited to be offering Maplesoft solutions directly to our many Maple and MapleSim customers in Japan while continuing to work closely with Cybernet Systems," said Dr. Laurent Bernardin, President and CEO, Maplesoft. "We look forward to strengthening our current relationships with customers in Japan, and supporting them as they use our tools to develop innovative engineering solutions for their customers and enhance STEM education for their students."

PROSTEP Builds Digital Twin in The PROPROS Project

11 February 2020

Modern shipbuilding - starting with shipbuilding prefabrication - is a logistical challenge. In order to maintain an overview right from the start and to be able to intervene on a daily basis, for example in the event of staff shortages, the Bremen-based Fr. Lürssen shipyard, the Machine Tool Laboratory (WZL) at RWTH Aachen University and PROSTEP AG have launched the ProProS research project. The aim of the project is to set up a digital twin for the manufacturing and assembly processes at shipyards and to use it for status control and optimization of shipbuilding production.

The Lürssen-based family-owned company hopes that digitization will lead to greater transparency in production and a reduction in throughput times, as Dr. Bernhard Urban, Head of Development & Innovation, emphasizes: "The joint research project with PROSTEP and the WZL is the basis for greater digitization of our manufacturing and assembly processes. With the development program, we want to continue the far-reaching digitization processes of our company in a targeted manner and thus consider the claim to leadership in performance and quality formulated by our company founder Friedrich Lürßen". As part of the project, PROSTEP is working together with the WZL's manufacturing experts, who will be responsible for developing the production logic, to develop the demonstrator of a digital twin. It maps the planning data from the target process (product structure, work orders, assembly sequence, scheduling, etc.) in a consistent data model and compares it in real time with the actual data from production and assembly. The first step is to identify disturbances in the process flow, e.g. due to a missing or unfinished component, at an early stage using a clear component identification and to assess their effects on the schedule. The digital twin is also intended to take over control tasks and help to avoid or minimize delays by simulating alternative production and assembly sequences.

The project with a total volume of 3.2 million euros runs until 2022 and is funded by the Federal Ministry of Economics and Energy (BMWi). The coordinator of the project is the Lürssen shipyard, which specializes in yacht and naval shipbuilding.

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Sopheon Presented Quoted25 Award from Megabuyte, Named Best Performing Company – Enterprise Software

10 February 2020

Megabuyte announced its winners of their Quoted 25 awards. We're proud to be named the winner in our peer group for Enterprise Software! The sixth annual Quoted25 celebrates the Top 25 best-performing mid-market quoted companies in the UK's Software and ICT Services sectors as measured by the Megabuyte Scorecard. It's part of the annual Megabuyte 100 award series, which collectively identifies UK's 100 best-performing technology companies.

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TCS Recognized as the #1 Top Employer in the United States for 2020

12 February 2020

Tata Consultancy Services has been recognized as the Number One Top Employer in the United States, second in Canada and third across North America for its exceptional workplace practices, by the Top Employers Institute, an independent organization that certifies companies across the globe.

The Top Employers Institute recognizes enterprises that dedicate themselves to providing the very best working environment for employees through their progressive people-first HR practices. TCS ranked highly in the U.S. and Canada for its global standards in digital learning, leadership development, and diversity and inclusion practices.

As one of the nation's largest job creators in the information technology sector, having hired more than 20,000 Americans – including 1,500 college graduates – since 2014, TCS invests deeply in its workforce. In 2019, 90 percent of TCS' U.S. employees were re-skilled in the latest digital technologies, tools and platforms, and globally, more than 327,000 employees were trained on multiple new technologies, and over 404,000 trained on Agile methods.

TCS' continued corporate diversity, inclusion and community engagements initiatives have also made a great impact. goIT, TCS' flagship student-focused experiential learning program that inspires underrepresented students towards careers in technology, reached a new milestone in 2019 by engaging more than 25,000 students since 2009 with the help of over 3,800 TCS employees acting as mentors. Furthermore, TCS' Ignite My Future in School program, which provides free professional development and resources for educators to integrate computational thinking into core school subjects such as math, science or social studies, reached more than 550,000 students and 9,000 teachers in 2019.

"By empowering our workforce with the newest digital tools, training and learning opportunities, we ensure the highest quality of services to our customers," said Surya Kant, President, North America, UK and Europe, TCS. "We are dedicated to helping our employees develop their careers and participate in community engagement opportunities that are making a lasting impact. Being named the #1 Top Employer in the U.S. for 2020 is recognition that our people-first HR practices are successful, resulting in industry leading talent retention rates."

TCS continues to be an employer of choice in North America, receiving more than 30 awards in the US

and Canada in 2019. These include four Stevies® at the 2019 American Business Awards, the U.S. Chamber of Commerce Foundation's 2019 Citizens Award for Best Commitment to Education Program, and being honored for the third consecutive year by Points of Light for being the '2019 Civic 50' Sector Leader for Information Technology. TCS also invests in platforms and programs that engage employee volunteers and support local communities, including the American Heart Association, American Red Cross, the TCS New York City Marathon, Boston Marathon, and Chicago Marathon.

"Recognizing our regional Certified Top Employers 2020 is an extremely proud moment for us all," said David Plink, CEO, Top Employers Institute. "This level of certification showcases the dedication to the consistent application of HR excellence on a regional level – an impressive commitment to enriching the world of work. Congratulations!"

The Top Employers Institute assesses participants through a global HR Best Practices Survey, which looks at over 600 people practices across 10 topics: talent strategy, workforce planning, talent acquisition, on-boarding, learning and development, performance management, leadership development, career and succession management, compensation and benefits, and culture. The Institute evaluates the implementation of these HR practices and how they are supported through strategy, ownership, practices, measurement, and technology.

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Events

CGTech Announces North American VERICUT Users Exchange (VUE) Events
13 February 2020

CGTech will kick off the first of its 2020 North American VERICUT Users' Exchange (VUE) events in Irvine, CA on March 2nd. Each year CGTech hosts VUE events for its customers around the world. More than 5,000 attendees are expected at 50+ VUE events in 2020. There is no charge to attend.

At VUE 2020, CGTech staff will provide a first-hand look at the new features in the latest release of VERICUT, version 9.0. Attendees will also learn what's already in the works for version 9.1, tips and tricks for improving manufacturing efficiency, and have the opportunity to express ideas about the future direction of the software.

"Users that adopted our latest VERICUT 9.0 release have reported being pleasantly surprised by the enhanced visual appearance of their simulations, but some users don't yet realize how much easier and faster they can verify NC processes in the new flexible viewing environment." says VERICUT Product Manager, Gene Granata. "At VUE we'll be showing users exactly why 9.0 is a gamechanger in simulation and NC program optimization, as well as a glimpse of what's coming in future VERICUT releases."
 New features in VERICUT 9.0 include several enhancements designed to increase power and improve efficiency, including a new graphics engine. Users will experience sharper, clearer and more realistic views of machines and the machining process, and more robust connections to tooling databases and the

latest CAM systems. Most users will also experience gains in performance, especially when simulating Additive or hybrid AM operations. Enhancements to VERICUT's free Reviewer app lets programmers share with others (like machinists or Quality Assurance personnel) how parts are manufactured.

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Dassault 3DEXPERIENCE World 2020: Bringing Innovators Together to Shape the World of Design
10 February 2020

Dassault Systèmes announced 3DEXPERIENCE World 2020 February 9-12 at Music City Center in Nashville, Tenn., where 6,000 designers, engineers, makers, entrepreneurs, students and business leaders from all industries can learn, collaborate, innovate and experience the latest 3D technologies driving the Industry Renaissance.

The inaugural 3DEXPERIENCE World builds on the 20-year legacy of Dassault Systèmes' SOLIDWORKS World events dedicated to the 3D design and engineering community. With a larger selection of learning opportunities, presentations, products, new technologies and experts, attendees can develop and expand their skills to become more inventive, efficient and responsive across the different processes involved in the creation of new experiences that transform how the world thinks, works and lives.

In particular, 3DEXPERIENCE World 2020 will introduce SOLIDWORKS users to new strategies for business innovation through discussions and demonstrations of 3DEXPERIENCE WORKS, Dassault Systèmes' portfolio of digital applications on the 3DEXPERIENCE platform for collaborative design to manufacturing.

Other event highlights include:

•   Keynote presentation from industry thought leader Charles Adler, co-founder and former head of design, Kickstarter.com, Kickstarter.
•   Customers, innovators and partners on the cutting edge of design including Sam Rogers, additive design lead and jet suit pilot, Gravity Industries; Mikael Kajbring, CTO, Awake, makers of the Awake electric surfboard; Mike Schultz, founder of performance prosthetic manufacturer, BioDapt; Matt Carney of the MIT Media Lab Biomechatronics group; and more.
•   More than 350 technical sessions in the form of lecture-style breakouts, hands-on workshops, and expert-led panel discussions on the latest innovations in 3D design, data management, simulation and manufacturing.
•   The 3DEXPERIENCE playground, a dedicated space to discover new technologies, tools and applications from more than 100 partners, experience virtual and augmented reality innovations, participate in hackathon and Model Mania challenges, and see the impact of 3D technology on education and startups.

"We're continuing the long legacy we've built with this community. 3DEXPERIENCE World, like last

year's SOLIDWORKS World, is a unique gathering where 3D enthusiasts can think creatively, network, and be inspired by future technological advances," said Gian Paolo Bassi, CEO, SOLIDWORKS, Dassault Systèmes. "Past SOLIDWORKS World attendees will still find everything they've come to expect each year, but also applications and uses of 3D technology they didn't expect. First-time attendees will find a large selection of solutions and experts to connect with. We aim to showcase all the possibilities within the vast Dassault Systèmes ecosystem that help our user community to go about their work and successfully achieve their ambitions."

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Infosys drives Live Enterprise Success with Oracle Cloud in Europe

11 February 2020

At Oracle OpenWorld Europe: London, 12th-13th February, Infosys will present its industry-wide expertise and Oracle-based cloud solutions to enable organisations to transform into live enterprises

Infosys announced its presence at Oracle OpenWorld Europe. Infosys leverages Oracle Cloud technologies to empower businesses across Europe to transform into 'Live Enterprises', helping them drive intuitive decisions, automate processes, create new user experiences and reinvent businesses for accelerated growth.

One such organisation that has transformed its way of working, in collaboration with Infosys and leveraging Oracle technology, is the University of Nottingham. The UK-based institution wanted to overhaul its academic and student management system to improve productivity and drive growth. To address the complex IT infrastructure that was previously in place, the university rolled out Oracle's PeopleSoft Campus Solutions in partnership with Infosys, which is detailed in this case study. The new integrated system is expected to bring dramatic productivity and user experience improvements for both employees and students.

Digital security leader Gemalto, a Thales company, has also enhanced its operations leveraging the Infosys and Oracle alliance, by setting up a robust single source of master data management and improving data integrity.

Rémi Médevielle, Global ERP Program Director at Gemalto, a Thales company, commented: "We undertook an ambitious digital transformation project to integrate our ERP platforms into a single, shared global platform. Our partner, Infosys helped guide us in streamlining and optimizing key processes and automating workloads, ultimately resulting in significant improvements in data integrity and management across our team."

Meanwhile, bpost, Belgium's leading postal operator, worked with Infosys to replace a previous Oracle ERP solution with a new system using Oracle Cloud Solutions. This enabled the company to streamline its business processes, while also reducing the cost of future support and maintenance.

Olivier Hernandez, CIO Corporate Services at bpost, commented: "Infosys has been a key partner in shaping our work to transform our organisation's digital processes. Whilst many of our processes were previously manual, with the new Oracle Digital Platform we have been able to automate and gather actionable insights on our Sourcing, Procure to Pay and Record to Record processes. Infosys worked with us to optimise and consolidate this using Oracle Cloud Solutions, greatly streamlining our operations."

We're delighted to see continued momentum amongst our customers in Europe as they embark upon their Live Enterprise journey with Oracle-based solutions," said Dinesh Rao, Executive Vice President,

Enterprise Applications Services at Infosys. "Europe is a region of intense growth and focus for us, as we continue to invest in our localisation offering here. Together with our partnership with Oracle, Infosys is uniquely positioned to empower our customers with the latest next-generation technologies and agile business processes that increase efficiency, maximise productivity, and improve the user and customer experience, ultimately accelerating our clients' transformation on their Live Enterprise journey."

Infosys is a Platinum Cloud Elite level member of Oracle PartnerNetwork (OPN), and the Infosys Oracle collaboration spans across a wide variety of technologies including but not limited to ERP, IaaS, PaaS, SaaS, SCM, HCM, CX, Autonomous Database and Oracle Cloud.

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Launching BigRep 3D PARTLAB: Printing Services for Industrial Additive Manufacturing in North America.

10 February 2020

BigRep is expanding its product offering to include 3D printing services for new and existing customers in North America. The new BigRep 3D PARTLAB will be located in BigRep's new American headquarters in Boston, set to open on February 10 during the 3DEXPERIENCE® World exhibition in Nashville, TN (February 9-12).

 "Addressing a growing demand in the market for flexible AM printing services, BigRep 3D PARTLAB will set a new standard in customer services for both existing and new industrial clients looking for innovative AM solutions from proven professionals," says Frank Marangell, BigRep CBO and President of BigRep America. "PARTLAB will support both our partners and customers who are over capacity and assist other companies in need of large-format parts printed by industry experts."

 BigRep 3D PARTLAB will offer customized ordering services for 3D printed parts including prototypes, tooling, molds and even end-use parts; printed to the customers' specifications with BigRep's extensive line of engineering-grade materials. PARTLAB makes the full potential of the company's technology and expertise in large-format additive available to new customers while offering comprehensive services for BigRep's industrial customer base across North America.

BigRep's new, bigger facility in Boston will feature a showroom with a fleet of BigRep's large-format AM systems including STUDIO G2s, ONEs, and PROs. The new North American headquarters is also available for demos and consultancy.

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Oracle Openworld Keynote: New Database Innovations Deliver a Single Database that Supports all Data

14 February 2020

During his keynote at Oracle OpenWorld London, Oracle Executive Vice President Juan Loaiza announced the latest innovations which further strengthen Oracle's strategy of providing a single converged database engine able to meet all the needs of a business. The new database features enable customers to take advantage of new technology trends—such as employing blockchain for fraud prevention, leveraging the flexibility of JSON documents, or training and evaluating machine learning

algorithms inside the database.

The future is data driven, and effective use of data will increasingly determine a company's competitiveness. Unlocking the full value of an enterprise's data requires a new generation of data driven apps. Oracle makes it easy to create modern data driven apps utilizing a single database engine which supports the most suitable data model, process type, and development paradigm for a wide variety of business requirements. We enable our customers to easily run many kinds of workloads against the same data. In contrast, other cloud providers require dozens of different specialized databases to handle different data types. Having to deploy multiple single-purpose databases leads to additional challenges. Having to implement multiple different database engines will increase complexity, risk, and cost because each database introduces its own security model, its own set of procedures for implementing high availability, its own scalability capabilities, and requires separate skillsets to operate.

Much in the way a single smartphone is now a camera, a calendar, a platform for entertainment, and a messaging system, the same idea applies to Oracle's converged database engine. With Oracle Database, enterprises are no longer forced into purchasing multiple individual single-purpose databases, when all they need is one converged database engine that handles everything.

Today, Oracle is announcing several new features which extend the converged capabilities in Oracle Database. These include:

Oracle Machine Learning for Python (OML4Py): Oracle Machine Learning (OML) inside Oracle Database accelerates predictive insights by embedding advanced ML algorithms which can be applied directly to the data. Because the ML algorithms are already collocated with the data, there is no need to move the data out of the database. Data scientists can also use Python to extend the in-database ML algorithms.

OML4Py AutoML: With OML4Py AutoML, even non-experts can take advantage of machine learning. AutoML will recommend best-fit algorithms, automate feature selection, and tune hyperparameters to significantly improve model accuracy.

Native Persistent Memory Store: Database data and redo can now be stored in local Persistent Memory (PMEM). SQL can run directly on data stored in the mapped PMEM file system, eliminating IO code path, and reducing the need for large buffer caches. This allows enterprises to accelerate data access across workloads that demand lower latency, including high frequency trading and mobile communication.

Automatic In-Memory Management: Oracle Database In-Memory optimizes both analytics and mixed workload online transaction processing, delivering optimized performance for transactions while simultaneously supporting real-time analytics, and reporting. Automatic In-Memory Management greatly simplifies the use of In-Memory by automatically evaluating data usage patterns, and determining, without any human intervention, which tables would most benefit from being placed in the In-Memory Column Store.

Native Blockchain Tables: Oracle makes it easy to use Blockchain technology to help identify and prevent fraud. Oracle native blockchain tables look like standard tables. They allow SQL inserts, and inserted rows are cryptographically chained. Optionally, row data can be signed to ensure identity fraud protection. Oracle blockchain tables are simple to integrate into apps. They are able to participate in transactions and queries with other tables. Additionally, they support very high insert rates compared to a decentralized blockchain because commits do not require consensus.

JSON Binary Data Type: JSON documents stored in binary format in the Oracle Database enables 4X faster updates, and scanning up to 10X faster.

Oracle's continuing to lead the industry in delivering the world's most comprehensive data management solutions, including the industry's first and only self-driving database, Oracle Autonomous Database. The company was recently named the leader in "The Forrester WaveTM: Translytical Data Platforms, Q4 2019 report which cites that, "unlike other vendors, Oracle uses a dual-format database (row and columns for the same table) to deliver optimal translytical performance," and that "customers like Oracle's capability to support many workloads including OLTP, IoT, microservices, multi-model, data science, AI/ML, spatial, graph, and analytics."

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Sigmetrix To Sponsor 3DEXPERIENCE World 2020

10 February 2020

Sigmetrix announced that it will sponsor 3DEXPERIENCE World 2020, being held February 9-12, 2020 at the Music City Center, Nashville, Tennessee, USA.

3DEXPERIENCE World brings together designers, engineers, managers, and partners to discuss ideas, trends, and the technology shaping the future of product design. The Sigmetrix team will be at booth 302 in the 3DEXPERIENCE Playground to demonstrate their solutions for mechanical variation management and discuss their broad scope of GD&T and MBD Training options. Rahman Jones, Application Engineer, will present 'Are you getting the full benefit of MBD?' in the Certified Partner Theater on Monday evening at 6:30.

As a SOLIDWORKS Certified Gold product, CETOL 6σ for SOLIDWORKS couples the power and functionality of SOLIDWORKS's parametric design capabilities with Sigmetrix' precise calculations and advanced mathematical technologies. Users can utilize seamless integration, complete with full model associativity, to visualize the potential impact that tolerance changes will have on their overall assembly. This single-window integration of CETOL 6σ with SOLIDWORKS allows users to analyze and improve their designs faster than ever, and because changes made to the tolerances automatically update the CAD data they can be assured their improvements are correctly incorporated within the design definition and hence the final product.

"We are thrilled to be sponsoring this inaugural year of 3DEXPERIENCE World. Sigmetrix is proud to be a partner of SOLIDWORKS for over 10 years, and to have CETOL 6σ for SOLIDWORKS named as a Certified Gold Product," says James Stoddard, President of Sigmetrix. "Companies are under ever-increasing pressure to improve quality, shorten time-to-market, and reduce product costs. The integration we provide between CETOL 6σ and SOLIDWORKS accelerates the design to manufacturing cycle, allowing more robust products to hit the market sooner at reduced cost."

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

In addition to demonstrating CETOL 6σ, Sigmetrix will be showing off their entire portfolio of comprehensive, easy-to-use solutions that help users achieve robust designs through variation management and the correct application of GD&T. They offer an array of software and training solutions including:

CETOL 6σ, a 3D tolerance analysis solution that works with NX, SOLIDWORKS, PTC Creo and CATIA V5-6

EZtol, a 1D analysis tool designed to make it easier to create, manage and report upon multiple 1D tolerance analyses in an assembly

Training on a variety of topics including GD&T, tolerance analysis, dimensional management, and MBD / MBE

Consulting and implementation services team with years of experience in tolerance analysis and GD&T definition offers a variety of consulting services to augment your team, speed your project along and run analyses for your assemblies

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Trimble Announces Call for Speakers for its 2020 Dimensions User Conference

13 February 2020

Trimble has opened its Call for Speakers for the 2020 Trimble Dimensions User Conference, which will be held November 2-4 at Gaylord Opryland Resort and Convention Center in Nashville, Tennessee. Emphasizing education, innovation and networking, this biennial event is a premier opportunity for speakers to share insights and real-world experiences.

Of particular interest to the thousands of attendees at Dimensions are sessions to learn about and experience groundbreaking technology trends in construction, geospatial surveying and mapping, autonomy, civil engineering, architecture and design, agriculture, transportation, utilities and more.

Those interested in presenting at an educational session can learn more at dimensions.trimble.com/sessions/call-for-speakers, and may submit speaker proposals through April 8, 2020. Notifications of acceptance will be made in early June, and speakers will receive a significantly discounted full-conference registration rate.

Additional information about Trimble Dimensions, including registration details, will be available in the coming weeks.

Trimble Dimensions User Conference showcases how technology is transforming the way professionals work to achieve success. During three days, attendees have ongoing opportunities for sharing knowledge, networking with industry leaders, building relationships, developing new contacts, and discovering how to overcome challenges in today's competitive business environment. Highlights include more than 500 educational sessions, many offering professional development hour (PDH) credits; hands-on software training; keynote and executive-level presentations; an on-site innovation Expo; and opportunities to see Trimble solutions at work.

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Financial News

Cadence Reports Fourth Quarter 2019 Financial Results

13 February 2020

Cadence reported 2019 revenue of $2.336 billion, compared to revenue of $2.138 billion for 2018. On a GAAP basis, Cadence achieved operating margin of 21 percent and recognized net income of $989

million, or $3.53 per share on a diluted basis, in 2019, compared to operating margin of 19 percent and net income of $346 million, or $1.23 per share on a diluted basis for 2018.

Revenue for the fourth quarter of 2019 totaled $600 million, compared to revenue of $570 million for the same period in 2018.

Cadence achieved operating margin of 18 percent and recognized net income of $660 million, or $2.36 per share on a diluted basis, in the fourth quarter of 2019, compared to operating margin of 20 percent and net income of $98 million, or $0.35 per share on a diluted basis, for the same period in 2018. GAAP net income for the fourth quarter of 2019 and fiscal 2019 included a one-time non-cash tax benefit of $576 million related to intercompany transfers of certain intellectual property rights to Cadence's Irish subsidiary.

Using the non-GAAP measure defined below, operating margin for 2019 was 32 percent and net income was $618 million, or $2.20 per share on a diluted basis, compared to operating margin of 30 percent and net income of $526 million, or $1.87 per share on a diluted basis, for 2018. For the fourth quarter of 2019, operating margin was 31 percent and net income was $152 million, or $0.54 per share on a diluted basis, compared to operating margin of 31 percent and net income of $147 million, or $0.52 per share on a diluted basis, for the same period in 2018.

"Generational trends such as 5G, AI and hyperscale computing are driving strong design activity and our Intelligent System Design strategy has us very well positioned to maximize the resulting opportunities," said Lip-Bu Tan, chief executive officer. "We introduced seven significant new products, including two in the System Analysis space, and coupled with strong execution, drove 9% revenue growth and 32% non-GAAP operating margin in 2019, and I look forward to driving further customer and shareholder success this year."

"We are pleased with our performance in Q4 and for the full year," said John Wall, senior vice president and chief financial officer. "Thanks to the efforts of the entire Cadence team, we achieved broad based strength across all of our businesses and look forward to building upon our success in 2020."

Business Outlook

For the first quarter of 2020, the company expects total revenue in the range of $610 million to $620 million. First quarter GAAP operating margin is expected to be approximately 19 percent and GAAP net income per diluted share is expected to be in the range of $0.32 to $0.34. Using the non-GAAP measure defined below, operating margin is expected to be approximately 30 percent and net income per diluted share is expected to be in the range of $0.53 to $0.55.

For 2020, the company expects total revenue in the range of $2.545 billion to $2.585 billion. On a GAAP basis, operating margin is expected to be in the range of 21 percent to 22 percent and net income per diluted share for 2020 is expected to be in the range of $1.46 to $1.56. Using the non-GAAP measure defined below, operating margin for 2020 is expected to be in the range of 32 percent to 33 percent and net income per diluted share for 2020 is expected to be in the range of $2.40 to $2.50.

A schedule showing a reconciliation of the business outlook from GAAP operating margin, GAAP net income and diluted net income per share to non-GAAP operating margin and non-GAAP net income and diluted net income per share is included in this release.

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Capgemini Reports Strong 2019 Financial Results

13 February 2020

The Board of Directors of Capgemini SE, chaired by Paul Hermelin, convened in Paris on February 12, 2020 to review and authorize the issue of the accounts of Capgemini Group for the year ended December 31, 2019.

Paul Hermelin, Chairman and Chief Executive Officer of Capgemini Group and Aiman Ezzat, who will become Chief Executive Officer of Capgemini Group following the Shareholders' Meeting of May 2020, comment: "With the strong 2019 performance we continue the momentum started several years ago. Once again, we outpaced market growth, as we committed to do. Our operating margin is up for the 9th consecutive year and we have significantly exceeded our free cash flow target. This sound financial performance demonstrates the strength of our business model and our financial discipline.

With this good set of results, we start 2020 on a solid footing. We can rely on a strong backlog, and on our ability to win major projects, as demonstrated in 2019. We can also count on the depth of our offer portfolio.

We are determined to expand in the "Intelligent Industry" market. We reaffirm our confidence in the final steps to complete the friendly offer to acquire Altran. This will enable us to take leadership in the digital transformation of industrial companies, a highly promising segment."

2019 KEY FIGURES

In 2019, Capgemini continued to outpace the market and further improved its profitability and organic free cash flow* generation.

The Group generated revenues of €14,125 million in 2019, up 7.0% on 2018. Growth is 5.3% at constant exchange rates*, in line with the 2019 target of "around 5.5%" (adjusted target announced at the Q3 2019 publication). Organic growth* (i.e. excluding the impact of currency fluctuations and changes in Group scope) was 4.2%.

Digital and Cloud now account for over 50% of the Group's activities, with growth exceeding 20% at constant exchange rates in 2019.

Bookings were up sharply, rising 11% at constant exchange rates to €15,138 million. This reflects the Group's ability to win large digital transformation contracts and secure multi-year client commitments.

The operating margin* is €1,741 million, or 12.3% of revenues, an increase of 9% or 20 basis points year-on-year, in line with annual objectives. The portfolio of innovative offerings drove this value creation, as illustrated by the increase in gross margin of the same amount. In a mixed economic environment, the Group demonstrated its ability to continue combining growth and profitability. The United Kingdom & Ireland and France were the main contributors to this performance, as well as North America to a lesser extent.

Other operating income and expenses were down to a net expense of €308 million from €346 million in 2018. This was mainly due to the marked decrease in restructuring costs, as anticipated, from €122 million in 2018 to €82 million in 2019.

Operating profit totaled €1,433 million, or 10.1% of revenues, compared with €1,251 million, or 9.5% of revenues, in 2018.

The net financial expense is €79 million, virtually unchanged on last year's expense of €80 million. The income tax expense increased from €447 million in 2018 to €502 million this year and includes €60 million due to the transitional impact of the US tax reform, compared with €53 million last year. Adjusted for this expense, the effective tax rate decreased from 33.7% in 2018 to 32.6%.

Net profit (Group share) grew by a strong 17% to €856 million in 2019. Basic earnings per share was €5.15 for 2019. Normalized earnings per share* was €6.40, or €6.76 adjusted for the transitional tax expense in the U.S. (i.e. up 12% year-on-year).

Organic free cash flow* was up sharply at €1,288 million, far exceeding the €1,100 million target set at the beginning of the year. This was mainly due to a higher operating margin and, to a lesser extent, lower restructuring costs. The Group also benefited from a €30 million improvement in working capital requirements in 2019.

Capgemini disbursed €578 million net for acquisitions in 2019 (including €411 million, excluding costs, for the block of 11.43% of Altran shares), and paid €282 million in dividends. The Group also allocated €150 million to share buybacks under the multi-year program. The 6th employee share ownership plan led to a gross capital increase of €254 million.

The Board of Directors has decided to recommend at the Shareholders' Meeting of May 20, 2020, the payment of a dividend of €1.90 per share, an increase of 12% on the dividend paid in 2019. The corresponding payout ratio is 35% of net profit3(Group share), in line with the Group's distribution policy.

OPERATIONS BY REGION

North America revenues (32% of Group revenues) grew 2.6% at constant exchange rates, on a challenging comparison basis as the region grew 14.4% in 2018. The Services and Energy & Utilities sectors were the most dynamic. The operating margin improved 30 basis points year-on-year to 13.9%.

The United Kingdom & Ireland region (12% of Group revenues) recorded robust growth of 4.7% at constant exchange rates for the year, despite the slowdown recorded as anticipated in the final months of the year. The Manufacturing, Energy & Utilities and Consumer Goods & Retail sectors were the main growth drivers, while the Public sector remained almost stable. The operating margin rate jumped to 15.2%, from 12.6% in 2018.

In France (21% of Group revenues), revenues rose year-on-year by a strong 5.9%. Demand was fueled in particular by the Manufacturing, Services and Public sectors. The operating margin rate improved further to 12.1% of revenues, an annual increase of 100 basis points.

Growth momentum remained robust in the Rest of Europe (27% of Group revenues), with a 6.2% increase in revenues at constant exchange rates. The Energy & Utilities, Consumer Goods & Retail and Manufacturing sectors were the strongest. Operating margin for the region eroded from 13.0% in 2018 to 11.8%.

Finally, the Asia-Pacific and Latin America region (8% of Group revenues) was particularly dynamic. Revenues grew 12.8% at constant exchange rates, with all the main sectors contributing to this performance. The operating margin rate nonetheless declined to 11.2%, from 12.8% in 2018.

ESI FY 2019 Results: Solid Growth Proforma 12-Month Sales

14 February 2020

ESI Group releases its sales for the financial year starting on February 1, 2019 and ending on December 31, 2019 (11 months), as well as for its last two months, approved by the Board of Directors on February 12th, 2020. As decided at the Annual General Meeting of July 18th, 2019, the Group now closes the fiscal year on December 31 of each year.

As a pioneer in virtual prototyping solutions and a key player in industrial transformation, ESI Group empowers manufacturers to navigate increasing complexity by replacing real tests and prototypes with highly accurate, predictive and representational virtual prototypes. ESI Group's software solutions are built from decades of global expertise in physics of materials, essential to the creation of authentic virtual prototypes. ESI's customers are an enviable list of industry leaders who benefit from enhanced innovation, competitiveness, performance and productivity thanks to ESI Group's solutions.

At the end of the fiscal year 2019, which has been impacted by the change of its closing date, the last 2 months saw the company close €18.8m in business.

After taking into account these last 2 months, sales over 11 months (February 1, 2019 - December 31, 2019) amounted to €102.2m, driven by the Licenses business (€75.3m). Over the same period, Services (Consulting) were €26.9m.

ESI generated proforma sales of €146.2m over 12 months (January 1, 2019 - December 31, 2019), up 7.8% (5.6% cer). Proforma full-year growth was driven by the Licenses business (€115.9m, +8.4%, +6.0% cer), which is the main pillar of the Group's business model (79% of total revenues):
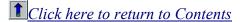
84% of sales were driven by Repeat business (renewal and additional volume), +7.9% (€97.8m), which, by nature, generates strong commercial recurrence (91.4%);

16% of sales were from New business (new customers or new solutions for existing customers), up 10.6% (€18.1m).

Services grew year on year (€30.3m, +5.4%, +3.8% cer) to represent 21% of total revenues.

The Group's global value proposition enables it to operate on all world markets. This is a substantial asset to customers who are global and can use virtual prototyping to generate considerable innovation and synergies. Excluding exchange rate impacts, growth over the period was mainly driven by the EMEA region (€71.0m, +8.7%, +8.6% cer) followed by Asia (€53.0m, +7.4%, +3.5% cer) whose strong performance (above 6.2% cer) would be more visible if we include the perimeter effect*. The Group also maintained positive momentum in Americas (€22.3m, +5.8%, +0.9% cer) which will be amplified in 2020.

Over this 12-month booking proforma, the four focus industries– ground transportation, aerospace, heavy industry, energy, accounted for 88% of total booking and grew respectively at 5.6%, 17.0%, 3.2% and 1.2%. The lower growth rate in Energy is explained by an industry wide shift to renewable energy where our efforts have shifted to service projects, laying the ground for future license sales.

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Lectra Announces 2019 Results

12 February 2020

Lectra's Board of Directors, chaired by Daniel Harari, reviewed the consolidated financial statements for the fiscal year 2019. Audit procedures have been performed by the Statutory Auditors. The certification report will be issued at the end of the Board of Director's meeting of February 25, 2020. (Comparisons between 2019 and 2018 are like-for-like, unless stated otherwise. As the impact of the acquisition of Retviews on the financial statements for the full year is not material, like-for-like changes exclude only the variations in exchange rates).

Q4 2019

In a continuing degraded environment that is unlikely to contribute to an upturn in investment decisions by Lectra customers, orders for new systems (30 million euros), decreased by 9% from Q4 2018 (-8% at actual exchange rates). Orders for new systems had amounted to 27.4 million euros in Q1 of this year, 26.5 million euros in Q2, and 28 million euros in Q3.

Revenues (74.2 million euros) decreased by 2% (-1% at actual exchange rates).

Income from operations (11.2 million euros) was down 10% (-7% at actual exchange rates) and the operating margin (15%) decreased by 1.3 percentage points.

Net income (8 million euros) was down 0.6 million euros (-7%) at actual exchange rates.

Free cash flow amounted to 18.1 million euros (12.8 million euros in Q4 2018).

2019

Acquisition of the company Retviews

On July 15, 2019, Lectra entered into an agreement to acquire the Belgian company Retviews. Founded in 2017, Retviews has developed an innovative technological offer that enables fashion brands to analyze real-time market data and make the best decisions to optimize their collections, increase their sales and margins, thanks to artificial intelligence algorithms.

Positive impact of currency changes

With an average exchange rate of $1.12/€1, the US dollar was up 6% compared to the same period in 2018, while the yuan strengthened by 1% against the euro. Currency changes thus mechanically increased revenues by 5 million euros (+2%) and income from operations by 3 million euros (+8%) at actual exchange rates compared to like-for-like figures.

Challenging macroeconomic and geopolitical environment

 In a context of uncertainty and apprehension, the entire year was marked by a very strong "wait-and-see" attitude by many companies, particularly in the fashion and automotive markets. This adverse climate is primarily the consequence of the trade wars between the United States, on the one hand, and Mexico, China and Europe, on the other, as well as the slowdown in the automotive sector, particularly in China.

Earnings in line with revised objectives

Orders for new systems (111.9 million euros) were down 10% relative to 2018. Revenues amounted to 280 million euros, down 3% (-1% at actual exchange rates). Revenues from software licenses, equipment and non-recurring services (110.2 million euros) decreased by 12% and recurring revenues (169.8 million euros) increased by 4%. Income from operations totaled 40.9 million euros and the operating margin 14.6%, down 2.4 million euros (-6%) and 0.4 percentage point, respectively. At actual exchange rates, income from operations rose by 2% and the operating margin by 0.4 percentage point. These results are in line with the Group's expectations as set out on July 29. Net income totaled 29.3 million euros, up 0.6 million euros (+2%) at actual exchange rates and free cash flow totaled 36.2 million euros (+14.6 million euros).

Greater impact of the sale of software on a subscription basis

As expected, both the volume and the percentage of sales of software sold on a subscription basis (SaaS) increased in 2019. This change to the SaaS model will contribute to the long-term development of the Company's activities and strengthen its recurring revenues. In the short-term, however, it has a negative impact on revenues and income from operations, as revenues from software subscriptions are recorded progressively over several years. If the SaaS sales in 2019 had been made in the form of perpetual

licenses with their associated maintenance contracts, revenues and income from operations would have been higher by 2.8 million euros and 2.9 million euros, respectively. Therefore, at actual exchange rates, revenues would have been stable, income from operations would have increased by 9%, and the operating margin would have totaled 15.5%.

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Implementation Investments

Atos expands strategic partnership with Groupe PSA to build new integrated SAP S/4HANA platform

12 February 2020

Atos has extended its strategic partnership by signing a new contract with French multinational automotive manufacturer Groupe PSA. This program is to build an SAP S/4HANA enterprise platform which integrates the two Opel-Vauxhall and Peugeot-Citroen-DS entities on a joint accounting system, in order to accelerate digital transformation across the Groupe.

This program is the first phase of a Groupe PSA core system, designed to be run on SAP S/4HANA. It will foster improvements in business processes for better end-to-end efficiency enhanced indirect stock transparency, plant maintenance efficiency, and optimized shared services by centralizing functions. The project also aims at improving IT efficiency on several axes: user experience, landscape rationalization, and data management.

Atos brings its solid expertise and experience garnered from managing Groupe PSA's current legacy SAP landscape, as well as its expertise as a global leader in SAP solutions, delivering end-to-end SAP HANA® solutions, as ranked by NelsonHall in its Vendor Evaluation & Assessment Tool (NEAT) for SAP HANA and S/4HANA services. Atos leverages its team of more than 13,500 SAP experts and supports more than 3 million SAP end-users in over 90 countries.

"The Groupe PSA project is one of the first major S/4HANA transformations in the automotive market, and the whole Atos group is focused on a successful delivery. This project demonstrates our strong capabilities and expertise in large end-to-end S/4HANA transformation programs worldwide and in delivering industrialized services in a factory model" said Eric Grall, Senior Executive Vice President and Head of Global Operations and Infrastructure & Data Management at Atos.

"This program is key and sensitive, as it will be one of the future major core systems of Groupe PSA, expected to provide enhanced agility for group management in many core central functions. I'm pleased to have our strong partner as Atos to support this endeavour." said Jean-Luc Perrard, CIO at Groupe PSA.

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Camaïeu Transforms Data Processes and Empowers Collaboration with Centric PLM

12 February 2020

Centric Software® is delighted to announce the release of a success story video about its customer, Camaïeu.

Camaïeu is every French woman's favorite brand. A Ready to Wear label that knows what women want and has accompanied them since 1984. Camaïeu makes women's lives easier, enabling them to express their style through simplicity, all at an attractive price.

Now, with the introduction of Centric Fashion PLM, Camaïeu has seen impressive user adoption across

all teams, with a streamlined data processes and a single source of truth for product data, making it easy for collaboration between departments such as such as IT and Pattern Making.

"I am extremely proud that Centric PLM has managed to bring the Product and IT teams closer together, and that Centric is able to adapt our tools as closely as possible to our objectives." PMO Product application at Camaïeu, Sandrine Guichard, concludes.

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Fetim Group Improves Productivity with Infor

14 February 2020

Infor announced that Fetim Group, a Dutch construction and home decor leader, is using an Infor benchmark of 800 world-leading companies to improve its processes and workflows. For this benchmark, Infor collected data from global manufacturing and distribution companies on how they operate. Analyzing and comparing this data has helped Fetim improve productivity and workflow efficiency. Further, Fetim is playing an active role as an advisory group member to improve Infor's software and to help it better align with customer needs.

Fetim's IT architecture is built on the best-of-class principle, and the company already uses Infor CloudSuite Distribution Enterprise, based on the Infor M3 ERP (enterprise resource planning) application and Infor CloudSuite Configure Price Quote (CPQ), a digital portal to improve the customer buying experience. It is currently rolling out Infor CRM and the acclaimed Infor Nexus to realize an online real-time collaboration platform to help improve cooperation with suppliers and to maximize the reliability of the supply chain. Integration with other applications, such as a third-party warehouse management system, is handled by Infor OS, a hybrid cloud platform that brings together business processes, integration and artificial intelligence (AI). The next step in Fetim's digitalization process will be deployment of Infor Coleman to add AI across the platform.

"We chose Infor very consciously because of their micro-vertical approach that increases efficiency; it comes with in-depth knowledge of our industry," said Fetim Group's IT director Frans Beerkens. "It is an absolutely unique proposition that offers us incredible added value and allows us to meet our type of customers' needs and wishes. Also, with this benchmark, Infor can show their customer focus, uniqueness and innovation."

On Fetim's advisory role, he said: "For Infor to directly involve companies that know what is happening in the market, and know what customers want, is smart. I can spot trends and bring the challenges I'm struggling with to the Infor table. What makes the micro-vertical counsel meetings so valuable and unique is that the people who are truly responsible for product development actually take part in these meetings. I don't see that anywhere else. Furthermore, it keeps the continuous feedback on the progress of our input and demands member companies are engaged and active. Customers like ours can be part of the solution and shape the roadmap for development priorities."

Being able to influence the functionality included in newer versions of Infor's industry CloudSuites based on Infor M3 helps Fetim make only a minimal number of modifications and quickly achieve standardized processes. Through the counsel meetings, Fetim found, for instance, ways to deal with its questions on pricing science and the rise of e-commerce.

The home furnishing and decor market has seen radical change in the past 10 years. An increase in online shopping, combined with globalization, has dramatically changed the dominant role of retailers

that were once Fetim's core market, whilst opening substantial opportunities for e-commerce sales. Fetim moved its applications to the cloud to help it respond with more agility to these changes and leave it to focus on its own product innovation and rapidly developing distribution channels. Thanks to Fetim's move to the cloud, the group was able to outsource all hardware and its datacenter and to benefit from Amazon Web Services' security layer. Infor CloudSuite Distribution Enterprise also offers opportunities to improve, accelerate and change Fetim's way of working by building a best-in-class environment.

"Companies such as Fetim play a valuable role for Infor in making world-leading, industry-specific software solutions that address the requirements and needs of customers," said Cormac Watters, Infor's general manager for international. "Their input, feedback and questions help to make new software releases and our cloud service better. As an innovation leader, we know the importance of being able to operate smartly and efficiently based on data science. That's why we help companies leverage data to improve their performances."

Fetim is a leading company in home improvement products. It wants to "help people love where they live, work and play." Fetim develops products according to the latest trends and techniques and works together with designers and trend watchers. The Fetim Group is active in more than 40 countries in Europe and supplies both professional end-users and retailers

Infor: Piriou Expects to Double Revenues Following Digital Overhaul

12 February 2020

Infor announced French shipbuilder Piriou has chosen Infor LN software to help transform its global production, repair, and maintenance operations. Piriou, which builds mid-sized boats for private and public use, military and commercial fishing, has decided to implement a modern enterprise resource planning (ERP) software system in a quest to double its revenues over the next five years.

Previously, Piriou used an AS/400-based ERP system that offered limited functionalities, only supported the French language and was not user friendly. This inhibited Piriou's growing number of production and servicing operations users at its shipyards in Africa and Vietnam.

After a thorough review of eight vendors including IFS, Microsoft and SAP, Piriou chose Infor LN, supported by French systems integrator Hélyad.

"We've engaged in an ambitious international program to modernize our information systems through the implementation of Infor LN," said Vincent Faujour, CEO of Piriou. "We want to improve the service we provide to our customers, but also the management of our sites and the productivity of our staff. Our key users helped select Infor LN as the closest match to all our requirements. Overall, I feel Infor and Helyad had the closest match in personalities, too — sharing the same values that we hold so dearly as a company. Together, we value commitment, proximity to our customers, and speaking the same language."

Piriou plans a steady roll-out over the coming years, wishing to avoid a "big-bang" deployment approach. Its biggest facility — Chantiers Piriou in Concarneau, Northern France — should be the first site to go live, forecast for 2021. Its other sites in France, Africa and Vietnam will follow.

Infor LN is ideally suited to Piriou's complex ordering, production and supply chain processes. Piriou

holds no product stocks; it builds ships to customers' unique requirements. Some designs take up to four years to fully scope and test to a customer's requirements.

Using Infor LN, Piriou expects to increase its production volume by better optimizing its production and giving users direct visibility to component parts ordering. This will be particularly beneficial to system users in Vietnam, who are faced with increasing complexity when ordering parts through various layers of suppliers or intermediaries, which currently hampers visibility and speed.

"In our pursuit of growth over the next five years, we expect to double our revenue. This ambition would have been impossible using our old ERP system," says Jean-Michel Veauvy, CIO of Piriou. "The biggest part of our business is shipbuilding, of course, and we can see how Infor LN will help us double our production output. But the repair and maintenance side is also significant and growing. Infor LN will help us better manage our margins where we need help in keeping close to our customers globally. We anticipate the mobile capabilities of Infor LN will really boost our service teams' effectiveness, as they are often required to work remotely on our customers' fleets of vessels all over the world."

"Successful projects are largely due to great teamwork between all parties," said Laurent Jacquemain, VP Southern Europe at Infor. "Although one of our competitors has quite a dominant position in the shipyard industry, we were chosen together with our excellent partner Helyad. Our team of people set out to truly understand and meet Piriou's unique requirements, which, together with our market-leading ERP solution, is a winning combination."

Involved in shipbuilding and ship repair since 1965, Piriou specializes in producing medium-sized vessels up to 120 meters in length with high added value through a combination of high-performance engineering and a global network of industrial sites in Europe, Africa and Asia. With over 500 ships built and delivered worldwide, Piriou provides bespoke solutions as well as a complete range of standardized or customized vessels that satisfy the requirements of international ship-owners, whether they be private or public, civilian or military.

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Sevfun Builds Up Product R&D Capabilities with Centric Fashion PLM

13 February 2020

Sevfun, the Chinese homewear brand, has selected Centric Software®'s Product Lifecycle Management (PLM) solution. Centric Software provides the most innovative enterprise solutions to fashion, retail, footwear, outdoor, luxury, consumer goods and home décor companies to achieve strategic and operational digital transformation goals.

Established in 1999, Sevfun is a garment brand for the whole family. Using natural, healthy and high-quality fibers as raw materials, Sevfun produces comfortable underwear, 'wear at home' clothing, home goods and sleepwear across eight categories. Sevfun has branches in Sichuan, Chongqing, Hunan, Hubei and Anhui.

Sevfun is pursuing aggressive growth targets and the company's existing product R&D processes require greater efficiency, accuracy and innovation to keep up with market demands. Sevfun has experienced challenges with large amounts of data stored offline, communication barriers between product teams in Chengdu and Shanghai and a need for a digital platform to support their transition from a buying model to an independent product R&D and merchandising model.

As the first step in their growth strategy, Sevfun selected Centric Fashion PLM to enhance product development and management.

"Sevfun needs to improve its product R&D capability, which is the competitive edge that will keep us invincible," says Mr. Dong Zezhi, Chairman of Sevfun. "The PLM project with Centric is the first step toward digital transformation and its successful implementation will lay a solid foundation for easier and more efficient work in the future."

Sevfun cited Centric's strong presence in China, extensive project experience, professional technology and trustworthy reputation as the basis for choosing Centric as a partner:

"PLM enables enterprises to transition from manual data-based work to more logical, efficient operations," explains Ms. Gao Wen, Commodity Director at Sevfun. "By improving basic data and optimizing processes, we can plan our work more systematically. Centric Fashion PLM will standardize our process and we then hope to achieve above-standard innovation and upgrades across our business and products."

"We are very pleased that Sevfun has selected Centric Fashion PLM," says Chris Groves, President and CEO of Centric Software. "Sevfun is going through a significant evolution in its market presence and business model. As Sevfun's digital transformation partner, we are proud to contribute our expertise and support their growth."

Technology leader HBC-radiomatic increases its service excellence worldwide with CONTACT

11 February 2020

The worldwide technology leader in industrial radio control systems introduces a holistic PLM strategy with CONTACT Software. As a company-wide IT solution, CIM Database PLM accelerates the entire product development process, increases the operational performance at HBC-radiomatic and forms the basis for outstanding services in the field.

Radio controls for industry, agriculture, construction and mining have to meet high requirements depending on the application. In addition to ease of use, precision and safety are key requirements.

HBC-radiomatic GmbH, based in Crailsheim, Baden-Wuerttemberg, is a leading manufacturer of radio remote controls for industrial applications. About 450 employees worldwide develop and produce wireless control systems for cranes, machines and various customer-specific special applications.

In order to continue to grow sustainably in the future and to optimally exploit the innovation potential, the company is replacing its previous individual solutions with CIM Database PLM. As a central data hub, CONTACT's solution ensures better collaboration and faster processes along the entire product development process at HBC through the principle of single source of truth.

The main focus was on a more efficient management of product-related documentation. The smooth interaction of the individual application modules convinced HBC. With CIM Database, all users now have access to the same valid project planning data, technical changes and quality details. This reduces errors, saves costs and empowers the global service team. At the same time, the integrated project management solution improves cooperation between the individual departments and provides comprehensive support for the company's processes.

"CIM Database meets all requirements of our long-term PLM strategy. With the possibility to add applications as needed, we can react flexibly to future challenges", explains Stefanie Bolz, consultant for business process development at HBC-radiomatic.

In the next step, the company will integrate CONTACT Elements for IoT and expand its range of products with smart services. The Internet of Things (IoT) platform provides information about the

status of the devices in the field as well as about service partners and activities. HBC is thus accelerating the documentation and processing of all global service cases.

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Product News

3D Systems Streamlines Digital Design and Manufacturing Workflows for SOLIDWORKS Users – Unveils 3DXpert for SOLIDWORKS 15

10 February 2020

3D Systems is transforming customers' digital design and manufacturing environments and putting software at the core of its strategy. Today, the company unveiled its latest software solution – 3DXpert® for SOLIDWORKS 15 – which empowers SOLIDWORKS customers to easily prepare and optimize their designs for additive manufacturing, allowing them to design complex structures and accelerate the product design life-cycle with better automation and seamless bi-directional data exchange from and to SOLIDWORKS. These enhancements help provide an accelerated path to design freedom, increased efficiency, reduced total cost of operation, and gain competitive advantage for a range of applications and industries.

The growth of additive manufacturing is contingent on optimizing digital workflows and that begins with reimagining how software supports the process and corrects the core issues that pose significant challenges for designers. Until now, the design toolset available has been oriented for traditional manufacturing techniques, which has created barriers to digital manufacturing workflow optimization. In addition, designers have faced demand for lighter weight parts and parts that possess complex geometries. 3D Systems' latest software solution addresses these challenges and unlocks new possibilities, including the ability to create more shapes in more ways.

"Software is the foundation of transformative digital manufacturing solutions," said Radhika Krishnan, executive vice president, software, healthcare, & digitization, 3D Systems. "Looking at our expertise and combining that with our end-to-end software portfolio solutions and the specific needs of SOLIDWORKS designers, we realized that we could help SOLIDWORKS users streamline their digital manufacturing workflows and gain competitive advantage in several ways such as adding design for additive manufacturing capabilities to their toolset with 3DXpert for SOLIDWORKS 15. In addition, SOLIDWORKS users can accelerate their product design cycle and reduce the time – from hours to minutes - required to build CAD models of real-world objects using advanced scan-to SOLIDWORKS capabilities that are included in our Geomagic® for SOLIDWORKS solution. Users can also use GibbsCAM®, our complementary CAM solution to complete their subtractive design and manufacturing workflow."

3DXpert for SOLIDWORKS is an add-on for SOLIDWORKS, extending SOLIDWORKS' design capabilities with a complete DfAM toolset, equipping designers with everything they need to prepare and optimize their designs for 3D printing.

3DXpert for SOLIDWORKS 15 further enhances the direct path from SOLIDWORKS to additive manufacturing and enables users to:

Shorten the design cycle with enhanced bi-directional data transfer: Seamless bi-directional data transfer

achieved with the click of a button – reducing time and effort while preserving data integrity.

Optimize design structure with an enhanced lattice development suite:Designers can now develop bespoke structures to capitalize on intellectual property, reduce costs and gain competitive advantage, in addition to using the rich library of predefined lattice structures.

Easily achieve successful prints with automated tools & workflows: A new power-supports capability fully automates support generation for multiple geometries with the click of a button. In addition, enhanced build simulation capabilities provide designers with clear and immediate feedback on their design decisions.

General availability of the new version of 3DXpert for SOLIDWORKS 15 is planned for March 2020. Designers and engineers can experience the benefits of 3DXpert for SOLIDWORKS through a free trial available for download.

Geomagic for SOLIDWORKS will also be on display at the show and is the industry's only complete integrated 3D scan-to-SOLIDWORKS software solution. The software helps designers reduce the time – from hours to minutes - required to build CAD models of real-world objects by using advanced, automated wizards to quickly and easily create sketches, surfaces, and feature-based editable solid parts inside SOLIDWORKS – directly from 3D Scan data.

3DEXPERIENCE World 2020 attendees can see 3D Systems' broad manufacturing portfolio encompassing software, materials, 3D printers, and services including: 3DXpert for SOLIDWORKS, Geomagic for SOLIDWORKS, 3DXpert, Geomagic Design XTM, GibbsCAM, and Figure 4® Standalone in booth #117 February 9–12.

BOXX Demos Fastest SOLIDWORKS Workstation

11 February 2020

BOXX Technologies announced that APEXX S3, the world's fastest CAD workstation, will demonstrate SOLIDWORKS inside BOXX booth #324 at 3DEXPERIENCE World 2020 through Feb. 12, at the Nashville Convention Center in Nashville, Tennessee. A Dassault Systèmes Corporate Partner, designated SOLIDWORKS Solution Partner, and leading manufacturer of CATIA and SOLIDWORKS-certified workstations, BOXX will also introduce FLEXX data center platforms purpose-built for content creation, and host Orange County Choppers designer Jason Pohl.

"We're proud to welcome Jason Pohl since, like him, our engineers are SOLIDWORKS users too," said BOXX VP of Marketing Bill Leasure. "Between Jason and our team, the BOXX booth is providing a wealth of SOLIDWORKS experience and expertise, as well as system configurations that deliver optimal application performance."

Purpose-built for SOLIDWORKS and other CAD applications, the best-selling APEXX S3 features up to two NVIDIA Quadro RTX GPUs, up to 128GB of RAM, and the latest eight-core, Intel® Core™ i7 or 19 processor overclocked to 5.1 GHz. The liquid-cooled system sustains that frequency across all eight cores—even in the most demanding situations. BOXX is the only workstation manufacturer providing this 9th generation, eight-core, Intel micro architecture professionally overclocked and backed by a three-year warranty. In celebration of 3DExperience World (and only for a limited time) APEXX S-Class workstations are currently available for up to a $600 discount.

In addition to APEXX S3, 3DEW attendees will have an opportunity to see the new BOXX FLEXX data

center platform. Purpose-built for content creation, FLEXX delivers all the power and performance of a desktop workstation inside a rack mounted, high density form factor. From high frequency requirements to CPU rendering and GPU rendering, liquid-cooled FLEXX features multiple nodes for a variety of workflows while also allowing users to mix and match nodes inside a single chassis. With FLEXX housed inside an organization's data center, users can remotely access data, creative content, team projects, and more.

From the renowned Discovery Channel series American Chopper, lead designer and BOXX user Jason Pohl will be on hand to demonstrate the SOLIDWORKS workflow he employs in the design and manufacture of custom motorcycles at Orange County Choppers and Jason Pohl Designs. Pohl will also host a breakout session entitled, "Rev it Up and Go: Designing and Machining at Orange County Choppers w/ Jason Pohl," Feb. 11 @5:30pm in Davidson Ballroom A3.

 "By working closely with both SOLIDWORKS and BOXXers like Jason Pohl, we ensure that BOXX systems are custom-configured to optimize specific workflows," says Leasure. "Whether it's our APEXX workstations, the new FLEXX, or BCS, we're empowering SOLIDWORKS users to accelerate their workflows, increase productivity, and experience real ROI."

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Dassault Introduces New 3DEXPERIENCE WORKS

11 February 2020

Dassault Systèmes announced new 3DEXPERIENCE WORKS commercial offers that provide SOLIDWORKS users with a connected, integrated and automated way to streamline their creative process, and save time and money.

The new offers – Standard, Professional and Premium – feature SOLIDWORKS standard, professional and premium applications that are installed from, licensed from, and updated in the 3DEXPERIENCE platform, with data stored in it. With this connection, SOLIDWORKS customers use the same desktop applications that they have relied on for years to design and engineer new customer experiences, all while benefitting from the advantages of a digital platform: improved collaboration, embedded and easy-to-use data management, automatic software updates, and flexible access to the latest project data readily available in one place.

The scalable offers also include 3D Creator and 3D Sculptor - next generation design applications that run in any browser, anywhere - and enable users to extend and improve what they can do with SOLIDWORKS by selecting from dozens of other powerful 3DEXPERIENCE WORKS applications and use only the ones they need for their tasks. Users can explore all the services offered by the platform, and become champions of digital transformation for their company.

"Customers want to do more than just design. They want to have a life-like experience of the products they make. This requires better design, simulation, governance, management and manufacturing and, most importantly, collaboration with the entire value chain. We want to provide customers with more options that make sense for their business, which is why we've made it easy for them to take advantage of and explore 3DEXPERIENCE WORKS," said Gian Paolo Bassi, CEO, SOLIDWORKS, Dassault Systèmes. "With our new commercial offers, SOLIDWORKS users have access to the powerful desktop applications that they know and love, with huge additional value. On the 3DEXPERIENCE platform, everything and everyone involved in the concept, design, simulate, manufacture, sell, and service processes are connected and integrated in one continuous loop. Of course, our SOLIDWORKS customers can continue to buy the standalone SOLIDWORKS desktop version if they prefer, but our

new customer-centric option will free up time to think, create, and get things done. We are also planning similar offers for education and startups, to bring value to them too."

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Detroit Engineered Products Launches an Advanced Version of DEP MeshWorks 2020

11 February 2020

DEP MeshWorks 2020, a CAE driven engineering platform for rapid concept CAE model generation, FE meshing, FE/CAD morphing and post processing announced the release of its latest version.

DEP MeshWorks 2020, a CAE driven engineering platform for rapid concept CAE model generation, FE meshing, FE/CAD morphing and post processing announced the release of its latest version. MeshWorks 2020 with enhanced technology and modules transform the product development process across industry verticals. The appended modules enable CAE to take the lead role in the product development process with its unique combination of concept modeling, model re-use, bi-directional CAD/CAE associativity capabilities.

Speaking about the launch of MeshWorks 2020, Radha Krishnan, Founder & President said, "DEP will strive to ensure MeshWorks 2020 remains the industry standard for CAE that works towards Light weighting, Optimization, Morphing, Automated Meshing, Fast Modelling, Concept Modelling and Process Automation. With this latest version, we plan to drastically bring down go-to-market gestation period and bring up profitability. Organization will benefit from the easy to migrate, increased productivity, and engineers will find ease of use from the latest version."

Some of the features include enhanced auto parametrization capability, a patented technology whereby a baseline CAE model created in MeshWorks is automatically a parametric model, saving the time and effort of parameterization typically done separately. The latest version empowers the user to make rapid design changes in CAD, has enhanced pre and post processing capabilities, and improved process automation modules. It also boasts of concept model builds enabled for sheet metal structures, plastic parts and cast parts at CAE level, with an interface to state-of-the-art solvers and best in class CAD/CAE bi-directional associativity providing closed loop for optimization. MeshWorks supports both parametric and non-parametric model-based optimization.

MeshWorks is already used in several industries across the globe, and many teams find several days of development time reduced by using MeshWorks. It is used by leading automotive OEMs and Tier 1s globally for capabilities like CAE Morphing tools which Reduces Finite Element (FE) & Computational Fluid Dynamics (CFD) model building time by 50% to 80%. In the biomedical industry, for instance, it finds applications across several implants like stents, dental, spine, hip, etc. where intricate and patient specific design and development can be done. In the heavy engineering industry, it is used for modelling fabricated structures, and optimization of load bearing parts. MeshWorks is also ready to drive electrification initiatives with its battery and motor modelling tools. Aero structure and engine manufacturers also benefit from MeshWorks modelling, parameterization tools and process automation tools.

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Mastercam 2021 Released for Global Public Testing

13 February 2020

 If you are a currently maintained Mastercam customer, you can now participate in the Beta Program for

Mastercam 2021. Shops all over the world, from small job shops to Fortune 100, get a chance to test-drive Mastercam 2021 before it is released and provide valuable feedback to help shape the final product. Participants in the Beta Program get an early look at dozens of powerful new tools for simple to complex jobs.

Faster, more flexible multiaxis programming. As more shops continue to rely on streamlined multiaxis cutting for single-setup precision, Mastercam 2021 adds new techniques and strategies such as Expanded Multiaxis Pocketing, a new 3+2 Automatic Roughing toolpath, enhancements to the 5-axis Flowline toolpaths, and more.

Advances in turning and turning-related applications. Mastercam 2021 introduces the new Lathe Custom Thread toolpath to support custom thread forms and expands the support for modeling chucks and chuck jaws. Mastercam supports collet chucks as individual component types which greatly expands the range of machines that can be directly supported. Mastercam Mill-Turn simulation enhancements are included, as well as support for select Swiss machining.

NC Programming speed, safety, and precision. New toolpaths in Mastercam 2021 consist of Advanced Drill which is a customizable multi-segment drill cycle, as well as the new Chamfer Drill toolpath that chamfers holes after calculating the correct depth. When creating a bounding box in Mastercam, the new Wrap option allows you to create the smallest bounding box possible. And, the new Check Tool Reach function lets you to check your tool and holder against the selected model geometry to view where the tool can and cannot reach.

These are only a few of the new features and enhancements coming to Mastercam 2021. For more information on Mastercam's Beta Program, visit https://www.mastercam.com/support/customer-resources/.

New Release of AVEVA E3DDesign Software to Comply with International Maritime Organization 2020 New Regulations

11 February 2020

AVEVA announced an important update to its AVEVA E3D™ design software that addresses the specific needs of the marine sector.

Designed with the most up-to-date user interface principles and best practices, intuitive and easy to use AVEVA E3D™ Design software combines the latest three-dimensional graphics and user interface technologies with state-of-the-art data management.

This software increases shipping vessel design and accelerates retrofits of ships to reduce emissions. The new capabilities demonstrate AVEVA's continued proactive innovation for the International Maritime Organization's new emissions regulations, IMO 2020, providing new tools to anticipate market needs and offering new capabilities and greater efficiency.

AVEVA Delivers Greater Efficiency for Ship Engineering and Design

Technology for new shipping vessels is rapidly changing as companies consolidate, regulations become ever more rigorous and shipyards globally face challenges from increasing competition.

Shipbuilding excellence is heavily reliant on design-to-production, agility and efficiency across all project streams, effective resource management and design quality leading to right-first-time, error-free

production.

AVEVA's new capabilities tailored to the marine sector will address these requirements and also include the first release of the AVEVA Hull Basic Design Module. This module is used for the preliminary design of a ship's hull structure, and supports key decisions regarding naval architectural characteristics, space management, outfitting design and drawings. AVEVA's new module represents the most integrated 3D environment for working with as-built and as-designed data in the marine market.

Ravi Gopinath, COO, AVEVA, said: "With this latest software release, AVEVA is responding to the ever-growing and changing needs of ship owners and shipyards the world over. Meeting sustainability goals, maximizing business agility and improving operational performance calls for integrated design and engineering tools that can streamline the process, improve speed and remove cost and complexity to rapidly address these market imperatives. Using our new software, marine operators will now be able to realize up to 40% gains in engineering efficiency while moving to operating paradigms that will ultimately help protect the environment."

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ShareAspace cloud – Design to Manufacturing is now available on Microsoft AppSource.

10 February 2020

ShareAspace cloud – Design to Manufacturing is now officially available on Microsoft AppSource.

ShareAspace cloud is a collaboration tool to outsource your product's manufacturing. Letting you manage and share your product data in the cloud with your partners and suppliers, streamlining your collaboration process.

ShareAspace comes with full support for managing parts, documents and files. Providing secure channels of communication in the form of messaging threads and discussion boards inside which you can refer to any PLM objects while still abiding by the access control of the object. ShareAspace is no exception to other PDM systems nowadays, you can easily create BOMs either through the user interface; via the REST APIs; or just by importing them from other PDMs mastering this kind of information.

One of ShareAspace key features is its ability to track changes in your product data across your supply chain and the impact they will have on your project, allowing you to always stay in control of your contract manufacturing collaboration.

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Stratasys Introduces New Mid-Range 3D Printer for Brilliant Design and Productivity

10 February 2020

Unleashing the power of 3D printed realism to a broader range of product designers and enterprise shops, Stratasys unveiled the new J826™ 3D Printer at 3DEXPERIENCE World today. At about half the price of other J8-series PolyJet™ printers, the J826 combines part realism and productivity, including full PANTONE™-Validated color and multi-material 3D printing.

Designed for designers, the J826 makes it possible for enterprise groups to save weeks on design cycles with exceptional print quality to create highly realistic prototypes that help achieve the exact intent of the designer, bringing them to life much faster and increasing quality with more design iterations. The

J826 is particularly suited for enterprises with mid-volume modeling requirements in industries such as consumer goods and electronics, automotive, and educational institutions.

Cambridge, UK-based BiologIC Technologies is using the J826 3D Printer to develop advanced medical instrumentation best-described as a 'desktop PC of life sciences.' "Our flagship product architecture will be 100% 3D printed using the J826, so it's no exaggeration to say that it – and indeed our company – is completely and only enabled by this 3D printer," Co-Founder Nick Rollings said. "For us, the design freedoms delivered by full-color, multi-material 3D printing enables us to accelerate our design process with zero restrictions. This empowers us to create ultra-realistic parts for our prototype using materials that, thanks to their advanced properties, will enable us to fully 3D print our medical instrument and effectively personalize medicine once our product is finalized."

"On top of that, the fundamental cost and time savings achievable with the J826 make it possible to actually get our ideas off the ground and rapidly progress – there isn't another technology available today that can tick all these boxes," Rollings added.

Built as a mid-range full-color 3D printer for enterprise shops, the J826 supports the full design process with same day send-to-print and easy post-processing. It provides the same exceptional resolution and detail as other Stratasys J8-series 3D printers, with models matching the shape, material, color and finish of final products.

"We believe that exceptional resolution, full color, multiple materials, and high productivity should not be the province of the few," said Shamir Shoham, Vice President, PolyJet Business Unit at Stratasys. "That's why we extended the power of our world-class J8-series 3D printers to the new J826 – addressing the needs of mid-volume enterprise shops and educational institutions at a lower price."

The J826 3D Printer leverages the same high-performance PolyJet materials as the J850, meeting the needs of both designers and design engineers. It includes the full range of textures, transparency with VeroUltraClear, and PANTONE™-Validated color1 – offering a universal language of color that ensures reliable, realistic decision-making across every stage of the design process. Fully supported by GrabCAD Print™ software, it enables a smooth import of common CAD formats (e.g. Solidworks).

The J826 3D Printer features a maximum build volume size of 10" x 9.9" x 7.9" (255mm x 252mm x 200mm). Like other J8-series printers, the large, seven-material capacity means operators can load their most frequently used resins and avoid downtime associated with material changeovers. Multiple print modes let users adjust the speed and quality of the print to meet specific needs, from High Quality Mode to High Speed Mode.

The J826 is expected to be available to order in May 2020. For more information on the power of 3D printed realism for designers and engineers, please visit the J8-series web page.

Stratasys is a global leader in additive manufacturing or 3D printing technology and is the manufacturer of FDM®, PolyJet™, and stereolithography 3D printers. The company's technologies are used to create prototypes, manufacturing tools, and production parts for industries, including aerospace, automotive, healthcare, consumer products and education. For more than 30 years, Stratasys products have helped manufacturers reduce product-development time, cost, and time-to-market, as well as reduce or eliminate tooling costs and improve product quality. The Stratasys 3D printing ecosystem of solutions and expertise includes 3D printers, materials, software, expert services, and on-demand parts production. Online at: www.stratasys.com.

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ZWCAD 2020 SP2: Released with Next-level User Experience

11 February 2020

 ZWCAD 2020 SP2, continuing to be fast and stable, is now presented to you with useful new features and thoughtful improvements! The following contents will give you some clues to what they are and how they can address your concerns.

If you work in AEC or MFG, these two new features, DGN Export and STL Out are good helpers. With the V8 DGN format supported, data exchange can be carried out between ZWCAD 2020 SP2 and design solutions that load DGN files, for example, MicroStation®seamlessly. Hence, construction projects of highways, bridges, ships, etc. can proceed smoothly.

As its name suggests, STL Out enables you to export 3D solids and seamless meshes in the STL format. These binary or non-binary STL files are helpful for rapid prototyping, 3D printing and CAM processing.

Now that the EXPORTLAYOUT command is available, all the visible objects in a Layout can be exported to the model space of a new drawing. Thus, modifications such as copying, exploding and scaling become feasible. Even better, you can export multiple layouts at once.

There are 2 ways to perform this function. Watch the tutorial below to learn them!

Better Displaying for Better Experience

The to-be-calculated areas used to be marked with dotted lines, which might be challenging for you to recognize them or tell whether they would be added or subtracted.

Now, areas that you are calculating will be shaded, green for adding and brown for subtracting. Those shaded areas can not only prevent you from leaving objects behind or repeatedly selecting them, but also clarify the kind of the ongoing calculation.

What's more, when the cursor hovers over objects that appear frequently or cover large areas, such as hatches and Xrefs, they flash from time to time. It's annoying, right? To provide you with a better viewing experience, a new option called Selection Preview Filter is added. With this filter, you can control whether to highlight specific kinds of objects when the cursor moves over them.

What's also added are PDF plotters with 4 types of DPI pixel resolutions. You can take advantage of them to plot PDF files in different qualities.

Moreover, when creating a new OLE (Object Linking and Embedding) object, you can set its font, point size and text height. Also, texts in OLE tables can be scaled to meet a certain standard.

These thoughtful enhancements are bound to bring you a more enjoyable experience. Begin your 30-day free trial of ZWCAD 2020 SP2 and you will find out!

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