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CIMdata News

Cadence Acquires BETA CAE Systems - a CIMdata Highlight

6 March 2024

Electronics industry solution provider expanding multiphysics systems design and analysis solutions portfolio

On Tuesday, March 5, 2024, Cadence Design Systems, Inc. (Nasdaq: CDNS) announced it has entered into a definitive agreement to acquire BETA CAE Systems International AG, a leading computer-aided engineering (CAE) platform provider of multi-domain, engineering simulation solutions. Cadence has built its engineering simulation solutions portfolio through acquisition over the last several years. It recently announced the release of their Millennium™ Enterprise Multiphysics Platform, a dedicated hardware/software acceleration platform leveraging graphics processing unit (GPU) and central processing unit (CPU) computing, underlining its commitment to innovative products and solutions. In recent years, Cadence has engaged with CIMdata to ensure their simulation and analysis revenues were reflected in CIMdata's Simulation and Analysis Market Analysis Report (S&A MAR). Before this acquisition, CIMdata estimated Cadence revenues in S&A at \$153 million in calendar year 2022.

BETA CAE's ANSA is very well entrenched in the automotive industry with a loyal customer base. This acquisition will give Cadence access to a significant number of major global automotive industry customers. Cadence Fidelity computational fluid dynamics (CFD) portfolio, BETA CAE ANSA, META, SPDRM, and other offerings will create significant new market opportunities for Cadence. With this acquisition, the Cadence multiphysics portfolio will have significant presence in electronics and semiconductor, aerospace, marine, and automotive industries.

CIMdata views this as a continuation of the trend in convergence of mechanical design and electronics systems design domains, particularly in the strategic role of simulation and analysis in developing products and solutions across multiple industries. Smart, connected products are common across many industries and this Cadence acquisition follows other recent transactions in the S&A space, including Synopsys acquiring Ansys (still in process) and Keysight acquiring ESI earlier this year. The S&A segment is growing faster than the mechanical computer-aided design (MCAD) and data management segments and is viewed as a key piece of the enterprise digital engineering and transformation puzzle. This acquisition underscores the importance of S&A and EDA to responding to the smart, connected products trend.

Acquisitions

Accenture Acquires The Lumery to Strengthen its Marketing Transformation Services in Australia

3 March 2024

Accenture has acquired The Lumery, a Melbourne-based marketing technology (martech) consultancy that helps leading organizations deliver seamless customer experiences and transform their marketing services. The acquisition will strengthen the marketing transformation capabilities of Accenture Song—the firm’s tech-powered creative group—and add significant depth to its offerings in Australia, such as personalization, CRM and loyalty, testing and experimentation and automation.

Businesses are urgently seeking ways to show up meaningfully for their customers across touchpoints. More than half of global consumers wish companies would respond faster to their changing needs and expectations. The acquisition of The Lumery reflects Accenture Song’s continued investment to help businesses in Australia respond to rapid changes in martech. Global spending on martech is expected to soar by 64% to \$216 billion in 2027.

Mark Green, Australia and New Zealand lead at Accenture Song, said: “There is great interest in using tech to understand Australian customers more deeply and to streamline, enhance and transform marketing and sales efforts, especially with the rise of generative AI. The Lumery stands out for its distinct ability to help clients navigate the constantly changing and fragmented customer experience with its considered approach that integrates software, data and analytics. Accenture Song and The Lumery share a goal of helping organizations transform through connected marketing and technology investments to drive customer growth.”

Founded in 2017, The Lumery brings complementary martech ecosystem relationships to help clients transform through technology for scale and mass customization. It provides industry and platform consulting services, including marketing advisory and planning, implementation across entire technology stacks, operational excellence and simplification. The Lumery works with clients across consumer goods and services, financial services, public sector, retail and resources. Its team of approximately 80 people across its offices in Melbourne, Sydney and Bengaluru, India, will join Accenture Song’s Marketing practice.

Rajan Kumar, co-founder and CEO of The Lumery, said: “Building compelling customer experiences isn’t going to be solved by technology alone. It also requires creativity, modern ways of working, ever-evolving customer data and most importantly, great people. The Lumery was founded with a clear ambition to be the leading authority in martech – we’ve built a team of skilled professionals and grown successful brands with our mix of marketing and tech expertise. Joining Accenture Song is a monumental step in our journey forward as we scale our expertise globally and, together, help more businesses connect with their customers and drive tangible business outcomes.”

Peter Burns, who leads Accenture’s business in Australia and New Zealand, said: “Bringing The Lumery to augment Accenture Song’s tech-powered creativity, data intelligence, and industry

expertise will help expand our Australian practice to lead clients further on their path of sustained relevance.”

Accenture Song has been growing its suite of capabilities to help clients grow, innovate and sustain relevance in the past year. In Australia, The Lumery follows the recent addition of customer insights and advisory business Fiftyfive5 to bolster its data-driven marketing services. Other recent global acquisitions include Jixie, Work & Co, Rabbit’s Tale, and ConcentricLife.

Terms of the transaction were not disclosed.

Accenture to Acquire EdTech Leader Udacity to Accelerate Capabilities of Accenture LearnVantage

5 March 2024

Accenture has agreed to acquire Udacity, a digital education pioneer with deep expertise in the development and delivery of proprietary technology courses that blend the flexibility of online learning with the benefits of human instruction. Terms of the transaction were not disclosed.

Udacity’s team of more than 230 professionals will join Accenture LearnVantage, also announced today, which provides Accenture’s clients with comprehensive technology learning and training services that will help them reskill and upskill their people in technology, data and AI to reinvent their organizations and achieve greater business value.

Udacity is recognized for its cutting-edge learning approach that emphasizes the acquisition of practitioner-level technical skills. The acquisition will bring to Accenture Udacity’s capabilities in integrating proprietary content, expert services and scalable learning technology while seamlessly bridging the gap between online education and workplace relevance.

Since its founding in 2011, Udacity has evolved from primarily consumer-focused to a talent transformation platform bringing customer value creation through career development in AI and tech. Through its highly regarded network of more than 1,400 experts and a vast library of exclusive content co-created with industry leaders, Udacity has served more than 21 million registered learners in 195 countries, providing localized course offerings in multiple languages, including English, Arabic, Korean and Spanish. In a crowded market, Udacity has differentiated itself through its combination of high-quality content and ‘human in the loop’ learning, coupled with an outcome-focused approach.

“The rise of generative AI represents one of the most transformative changes in how work gets done and is driving a growing need for enterprises to train and upskill people in cloud, data and AI as they build their digital core and reinvent their enterprises,” said Kishore Durg, global lead of Accenture LearnVantage. “The addition of Udacity to Accenture LearnVantage will enable us to bring Accenture’s deep capabilities as a world-class learning organization to clients at scale, helping them build the skills of their people to achieve greater business value.”

“As we join forces with Accenture, we are thrilled to embark on this next chapter of our journey. Together, we are dedicated to delivering impactful and cutting-edge tech education that enables individuals and organizations to unlock their potential,” said Kai Roemmelt, CEO of Udacity. “This combined with Accenture’s world-class expertise and global footprint will allow

us to reach even more learners and amplify our impact, empowering millions to thrive in the digital economy.”

Completion of the acquisition is subject to customary closing conditions, including required antitrust clearances.

Cadence to Acquire BETA CAE, Expanding into Structural Analysis

5 March 2024

Cadence Design Systems, Inc. announced it has entered into a definitive agreement to acquire BETA CAE Systems International AG, a leading system analysis platform provider of multi-domain, engineering simulation solutions. The addition of BETA CAE’s proven technologies and talent will accelerate Cadence’s Intelligent System Design™ strategy by expanding its multiphysics system analysis portfolio and enabling entry into the structural analysis segment, unlocking a multi-billion-dollar incremental TAM opportunity. Under the terms of the definitive agreement, Cadence will pay approximately \$1.24 billion for the transaction, with 60 percent of the consideration to be paid in cash and 40 percent to be paid through the issuance of Cadence common stock to current BETA CAE shareholders. In conjunction with the transaction, Cadence expects to obtain new debt financing to fund a portion of the cash component of the purchase price. Cadence plans to use free cash flow generated by its existing operations to rapidly pay down debt incurred to fund the transaction, while also maintaining share repurchases.

Increasing system complexity and time-to-market pressures from accelerating mechanical and electrical hyperconvergence, along with the digital transformation in multiple industries, are driving the need for multiphysics simulations early in the design cycle. Over the past few years, Cadence has expanded its system analysis portfolio to build out a comprehensive multiphysics platform including electromagnetics (EM), electrothermal (ET) and computational fluid dynamics (CFD) solutions, and with BETA CAE, Cadence will enter structural analysis, the largest system analysis segment.

BETA CAE is a highly respected industry leader, well-known for its groundbreaking, innovative, high-performance simulation software and best-in-class services. BETA CAE’s portfolio includes its flagship pre- and post-processing products, which are the industry gold standard, mechanical and structural simulation and multiphysics analysis, and simulation, process, data, and resources management (SPDRM) solutions, among others. BETA CAE has a very strong footprint in the automotive vertical sector, delivering solutions to the top 10 global automobile manufacturers and most Formula One racing teams, as well as leading customers in the aerospace, industrial and healthcare industries. BETA CAE customers include marquee names such as Honda Motor Company Ltd., General Motors Company, Stellantis, Renault Group, Volvo Cars and Lockheed Martin Corporation, among others.

“Cadence entered the multiphysics space several years ago through organic innovation and acquisitions. This strategic acquisition reaffirms our commitment to continued growth in this critical domain,” said Dr. Anirudh Devgan, president and CEO, Cadence. “Combining our computational software expertise with BETA CAE’s rich technology and talent will enable us to

offer a more comprehensive portfolio to customers, while opening significant new opportunities for Cadence by tapping into the structural analysis segment. These solutions are particularly important in automotive, where convergence of electrical and mechanical designs is further driven by an increasing shift towards electric vehicles, requiring deeper design team collaboration in integrated workflows.”

“For more than two decades we’ve led the evolution of engineering simulation, first by establishing our reputation in the land mobility sector, and then successfully expanding to broad deployments across aerospace, defense, biomechanics, electronics, energy and other industries,” said Panagiotis Kouvrakis, chairman of BETA CAE. “We are very excited to join the Cadence team and are looking forward to advancing success through our shared values and passion for innovation and engineering, and our unwavering commitment to customers and partners.”

BETA CAE provides a complete platform that accommodates the entire simulation and analysis flow for multiphysics system simulations, spanning mechanical/structural, CFD and EM. Its flagship products include ANSA, an advanced, multidisciplinary computer-aided engineering (CAE) pre-processor that encompasses all necessary functionality for full-model build up in a single, cohesive, integrated environment, and META, an advanced, multidisciplinary CAE post-processor for optimally visualizing data and simulation results and creating reports, powered with state-of-the-art augmented reality capabilities. Additionally, BETA CAE’s EPILYSIS and FATIQ solvers enable customers to efficiently solve structural analysis and optimization problems. The SPDRM tool addresses the integrated orchestration of data, processes and resources by providing a simple and intuitive way to capture, deploy, manage and improve CAE processes. BETA CAE’s products are very complementary to Cadence’s multiphysics system analysis portfolio, which includes Clarity™, Celsius™, Sigrity™, Voltus™, Fidelity™ and the recently announced Millennium™ M1 multiphysics platform, addressing the EM, thermal, signal and power integrity, and CFD domains.

Headquartered in Lucerne, Switzerland, BETA CAE has a primary R&D center in Thessaloniki, Greece and 13 additional offices worldwide.

The acquisition is expected to close in the second quarter of 2024, subject to receipt of regulatory approvals and other customary closing conditions. BETA CAE has annual revenue of about \$90 million, and Cadence expects BETA CAE to contribute approximately \$40 million to 2024 revenue. Cadence expects the transaction to be approximately 12 cents dilutive to its 2024 earnings per share and to become accretive in 2025 (in each case, on a non-GAAP basis), based on Cadence’s debt repayment and share repurchase plans.

JDM Technology Group Expands Construction Software Offering Acquiring Penta Technologies and STRUXI

6 March 2024

JDM Technology Group, a global group of leading software providers for the architecture, engineering, construction, maintenance, and operations industries, announced that it has

acquired two Milwaukee, WI based software businesses, Penta Technologies and STRUXI. The transaction closed on February 29, 2024, with approval from Penta and STRUXI owner, Karl Koenig.

Penta Technologies develops enterprise construction software that helps construction, service, and engineering enterprises improve business performance. It supports a wide range of contractors across the United States and Canada, including electrical, heavy, specialty, general contractors, and more.

STRUXI specializes in construction labor management, offering field management software and labor cost management software that help contractors easily capture, track, and report on labor costs.

“I’m proud of the companies we’ve built. Thanks to the dedication and efforts of our Penta and STRUXI teams, we’ve helped hundreds of contractors meet their business challenges head on,” said owner Karl Koenig, in a statement on the transaction. “This next step will allow that legacy to continue.”

Penta and STRUXI join a growing lineup of construction software companies in JDM’s construction software portfolio, including Computer Guidance Corporation, Explorer Software, JOBPOWER, and Maestro Technologies. The newly acquired companies will continue to operate as their own brands. Penta management will assist with the transition.

“Our acquisition of Penta and STRUXI is part of our ongoing strategy to buy and build exceptional software so we can continue to provide our customers with the best possible solutions,” said JDM CEO Jim McFarlane. “We’re pleased to welcome Penta and STRUXI to the group and we’re confident that this acquisition will allow us to create new value and opportunities for its customers.”

Shea & Company, LLC acted as the exclusive financial advisor to Penta and STRUXI on the transaction.

Sandvik completes the acquisition of CAM reseller Cimquest

4 March 2024

Sandvik has completed the previously announced acquisition of Cimquest, a US based reseller of Computer Aided Manufacturing (CAM) solutions and one of the largest resellers in the Mastercam network. Cimquest will be a part of business unit Mastercam and will be reported within business area Sandvik Manufacturing and Machining Solutions.

Cimquest, founded in 1990, is headquartered in Branchburg, New Jersey, and has 55 employees. In 2023, the company had revenues of around 26 MUSD*. The impact on Sandvik’s EBITA margin will be limited. Impact on earnings per share will be positive.

*A limited part of Cimquest revenues in 2023 were to Sandvik-owned Mastercam and will not impact Group total external revenues.

Stratasys Acquires Arevo's Technology Portfolio, Strengthening its Innovation Leadership in Additive Manufacturing

4 March 2024

Stratasys Ltd., a leader in polymer 3D printing solutions, announced it has acquired Arevo's technology portfolio, including its Intellectual Property (IP) estate. Previously based in Silicon Valley, Arevo, Inc. ceased operations in 2023.

The acquisition of the IP estate includes multiple foundational patents in carbon fiber printing, Z-strength improvement achieved by localized laser melting and roller compaction, in-situ and AI build monitoring, and hardware design. Adoption of this technology in Stratasys FDM® print systems enables Stratasys to extend its addressable manufacturing applications for its customers.

Stratasys will be able to accelerate usage of FDM printing applications by eliminating customer adoption barriers associated with requirements for higher performing parts including strength and isotropy, more reliable and consistent builds, and improved system throughput for better parts economics.

"The technology we've acquired allows for increasingly improved isotropy of physical properties in FDM parts, which opens up additional use for customers," said Rich Garrity, Stratasys' Chief Industrial Business Officer. "This investment continues our commitment to focusing our organic and inorganic innovation on applications and use cases that provide real value to our manufacturing customers, ensuring that Stratasys will continue to be the most relevant and attractive partner moving forward."

This acquisition of assets reflects Stratasys' clear strategy to create practical value for its customers by investing in innovation, through both organic R&D as well as the acquisition of technology and IP. The 2,600 total granted and pending patents in its portfolio differentiates Stratasys from the rest of the industry.

Tango, Leading Provider of Cloud-Based Real Estate and Facilities Management Software, Acquires Locatee

5 March 2024

Tango, a leading provider of cloud-based real estate and facilities management software, announced it has acquired Locatee, a leading workplace analytics solution. Locatee empowers organizations to make fact-based decisions by providing a complete picture of occupancy, driving strategic portfolio decisions, improving operational space utilization, and increasing employee satisfaction. Financial terms of the private transaction were not disclosed.

"The complexities of managing a hybrid workplace mean that organizations are facing an imbalance in space supply and demand, with space utilization rates under 40% on average," said Pranav Tyagi, President and Chief Executive Officer of Tango. "Organizations are actively seeking to better understand occupancy levels, however existing solutions are often disparate and cost-prohibitive, leaving them struggling to gain accurate insights. With the addition of

Locatee, Tango provides a comprehensive, cost-effective solution that empowers them to address critical questions regarding actual occupancy and utilization, leveraging their existing Wi-Fi and hard-wired networks as well as additional data sources such as badge and IoT sensors.”

“We are pleased to join the Tango family and realize the maximum value of Locatee’s occupancy data and analytics platform,” said Benedikt Köppel, Founder & Co-CEO of Locatee. “Tango is a leader in the application of AI/ML in the built environment and Locatee adds a rich occupancy data set to the massive amounts of data Tango already analyzes, which will deliver insights that benefit the entire real estate lifecycle including portfolio strategy, space optimization, maintenance, and sustainability.”

Outfitting an entire real estate portfolio with IoT sensors is not an option for even the world’s largest organizations. Locatee bridges the occupancy data gap by providing instant occupancy data leveraging existing investments in Wi-Fi and ethernet, dramatically reducing costs and delivering a holistic picture of space usage across the entire portfolio. “We are excited to combine occupancy data at the building, floor, and zone level with Tango’s industry leading space management and reservation solutions to provide customers with a complete picture of planned, forecasted and actual occupancy,” said Myriam Locher, CRO & Co-CEO of Locatee.

Locatee’s offices, based in Zurich, Switzerland, will become Tango’s European headquarters serving the company’s international customers. The combined business will serve over 500 customers in more than 140 countries from its primary offices in Dallas, New York, and Zurich.

Frost Brown Todd LLP acted as advisor and legal counsel to Tango and Berkshire Partners on the acquisition of Locatee. Locatee was advised by Lerner Associates Ltd. and Wenger Vieli AG

Company News

Addnode Group launches new brand identity

6 March 2024

The new brand and visual identity will provide a strong platform for further growth and globalization of Addnode Group. The new purpose presents Addnode Group as an add on growth accelerator for companies that provides systems and technologies for a sustainable future. The new identity positions Addnode Group as a passionate and growth-oriented group.

“We are proud of our strong history of growth. Addnode Group’s new brand identity will support our continued growth and geographical expansion. “Digitalization for a better society” radiates our strong ambition to support a transition to a more sustainable society, enabled by Addnode Groups technology and 2,700 skilled employees”, says Johan Andersson, CEO and President of Addnode Group.

Values

In connection to defining our purpose, we have reframed Addnode Groups core values:

- **Entrepreneurial Spirit** – Our mindset encompasses innovation, creativity, curiosity, adaptability and a passion for delivering value in the marketplace. We seize opportunities and act so that success is guaranteed.
- **Long-Term Commitment** – Our investments and commitments are made with determination, patience, resilience, and focus on long-term development and growth.
- **Simplicity** – We strive for simplicity in everything we do, meaning that we don't get lost in details or inefficient organisation.

New website

To emphasize the new brand identity, we have also reworked our visual identity.

Altair Names Analytium Channel Partner for United Kingdom and Ireland

5 March 2024

Altair, a global leader in computational intelligence, announced that Analytium Ltd. has joined Altair's growing channel partner network and will offer the full suite of Altair's data analytics and AI solutions, Altair® RapidMiner®. Analytium is an agile technology firm focused on data analytics and data management and provides full software lifecycle support, from design and production support to training.

"The collaboration between Altair and Analytium heralds a new era of AI excellence. This partnership is a pledge to drive transformative technological advancements," said Kimon Afsaridis, managing director of Eastern Europe and vice president of indirect EMEA sales, Altair. "Our synergy with Analytium underscores our unwavering commitment to shaping the future of technology, marking a significant milestone in our aggressive global market expansion."

"We're excited to broaden the array of software options available to our clients by adding Altair's top-tier and best-in-class solutions," said Vasilij Nevlev, director, Analytium. "Proudly partnering with a global technology innovator like Altair enables us to enhance our offering with world-class innovation and expertise, ensuring our customers have access to the very best tools for data-driven decision-making."

Analytium Group was founded in 2016 in London with offices there and elsewhere in Europe. Analytium is a boutique data consultancy that stands out in the data analytics sector for its comprehensive lifecycle support for customers, encompassing deployment, optimization, and hosting. Specializing in the SAS language, and a certified AI partner of Microsoft, Analytium offers a wealth of independent advice to ensure clients have access to a broad range of solutions tailored to their specific needs. Its commitment to covering every aspect of the data management process allows clients to benefit from seamless, integrated services designed to maximize efficiency and drive data-driven decision-making.

Altair works with a global network of channel and technology partners.

Altair Names Relational Channel Partner for Greece

5 March 2024

Altair, a global leader in computational intelligence, announced that Relational FS, a distinguished data intelligence solutions provider, has joined Altair's growing channel partner network. The partnership will extend the reach of Altair's cutting-edge data analytics and AI portfolio in the Greek market.

"In today's data-centric landscape, partnering with Relational is a strategic imperative to elevate our data analytics and AI capabilities. This partnership is a commitment to empowering organizations with cutting-edge solutions that go beyond traditional offerings," said Kimon Afsaridis, managing director of Eastern Europe and vice president of indirect EMEA sales, Altair. "Together, Altair and Relational are poised to usher in a transformative era of data-driven decision-making, unlocking unprecedented value from data assets and propelling organizations into the future of intelligent insight."

"We are delighted to announce our strategic partnership with Altair, a renowned global technology company," said Nikos Tsantanis, director of innovation, Relational. "By combining Relational's data management expertise with Altair's leading-edge analytics and AI solutions, we're creating an unmatched offering for our customers. This partnership is about more than just technology; it's about delivering unparalleled insights and driving tangible business impact."

Relational, founded in 1995 and based in Athens, Greece, is known for delivering innovative data management solutions and has held a strong presence in the Greek market for decades. With a diverse clientele spanning various sectors such as banking, telecommunications, retail, and government, Relational is well-positioned to contribute to the adoption of advanced data intelligence solutions.

Altair works with a global network of channel and technology partners.

Aramco Digital and LTIMindtree to Launch KSA Digital and IT Services Company

6 March 2024

Aramco Digital, the digital and technology subsidiary of Aramco, and LTIMindtree, a global technology consulting and digital solutions company, have signed a shareholders' agreement to create an IT services company in the Kingdom of Saudi Arabia. The prospective company would showcase innovation in action, including disruptive digital services, and transformative industry 4.0 systems integration capabilities. This collaboration is expected to support the Kingdom's Vision 2030 by creating highly skilled jobs for Saudis in this sector.

The joint venture is being formed under the Aramco Namaat Industrial Investments Program. Nabil Al Nuaim, Aramco Senior Vice President of Digital and Information Technology and a board member of Aramco Digital said, "This is a pivotal partnership effort to leverage the power of digital transformation and unlock unprecedented opportunities for innovation and sustainability in the region. The joint venture aims to foster the localization of the IT services vital sector, create valuable jobs, and pave the way for a brighter future in the Kingdom."

Sudhir Chaturvedi, President and Executive Board Member, LTIMindtree said, “LTIMindtree is fully aligned with the Saudi Vision 2030. We are pleased to have been selected as the trusted partner for the joint venture. KSA and MENA are amongst the fastest growing regions globally in the adoption of new technologies. We are committed to delivering new technology-led growth to the region. With Aramco Digital, we will bring our global capabilities and expertise and leverage new technologies to deliver digital transformation suitable for giga projects, the government sector, high growth industries, energy, manufacturing, and the financial services sector.”

Aramco Digital CEO, Tareq Amin said, “We are excited about this collaboration, which will align with Aramco Digital’s solutions offerings, which capitalize on high demand for customized and scalable solutions. The powerful combination of Aramco Digital’s business, coupled with LTIMindtree’s deep engineering capabilities and customer experience solutions, has the potential to unlock tremendous value for the region. It reinforces our joint efforts to support Vision 2030 and deliver world-class and sustainable value to our customers and employees, while working toward creating local jobs and expertise with a competitive edge.”

DELTEK ANNOUNCES CEO SUCCESSION PLAN

5 March 2024

Deltek, the leading global provider of software and solutions for project-based businesses, announced that Bob Hughes will join Deltek as President and CEO to succeed Mike Corkery, Deltek’s current President and CEO. Mike will transition to a full-time operating Group Executive role at Roper Technologies, Deltek’s parent company, effective April 10, 2024.

Bob brings over 20 years of experience and a proven track record of success in enterprise software and has held various leadership positions at prominent software companies. He has consistently demonstrated strategic vision and a passion for driving innovation and customer success. Most recently, Bob was the Chief Customer and Strategy Officer at UKG, focused on developing and executing the company's strategic growth plan, including mergers and acquisitions, strategic investments, and global expansion to benefit customers worldwide. Before UKG, he spent several years at Blackbaud as Vice President of Corporate Development. Bob also served as a U.S. Navy submarine officer and is a graduate of the U.S. Naval Academy and the Kellogg School of Management at Northwestern University.

“I am honored and thrilled to join Deltek, a company that is consistently viewed as being one of the best places to work and has a remarkable history of delivering excellence to its customers,” said Bob Hughes. “Together, with Roper’s partnership, we will build on this strong foundation to serve and grow Deltek Project Nation.”

“We are excited to welcome Bob as Deltek’s new President and CEO,” said Neil Hunn, Roper Technologies' President and CEO. “Bob leads from the front and is relentless in his pursuit of customer value delivery and employee development and engagement. This outstanding leadership and customer experience expertise will be invaluable in guiding Deltek in their continued growth and development.”

“Serving as CEO of Deltek has been the honor of my professional career, and I am incredibly proud of our accomplishments to date,” said Mike Corkery. “Since I joined Deltek in 2010, we have experienced tremendous growth driven by our incredible customers and outstanding team. I am confident Deltek will continue to excel with Bob at the helm.”

As a full-time executive at Roper Technologies, Mike Corkery will provide coaching and guidance to several Roper businesses, including Deltek. “Focusing 100% of Mike’s time on his operating Group Executive responsibilities is part of our long-term succession planning,” said Neil Hunn. “These changes ensure a smooth leadership transition for Deltek while enabling continued strong performance across the business.”

HCLTech and ServiceNow partner to deliver GenAI-led solutions

7 March 2024

HCLTech, a leading global technology company, and ServiceNow, the leading digital workflow company making the world work better for everyone, have announced a partnership to deliver new generative AI (GenAI)-led solutions. The offerings will help enable enterprises to adopt ServiceNow’s GenAI capabilities across the business quickly and efficiently.

“We are delighted to double down on our partnership with ServiceNow to enable our clients to unlock value through GenAI. HCLTech’s differentiated portfolio and engineering heritage positions it to deliver practical and customized GenAI use cases to clients as they move forward with their digital transformation agendas,” said C Vijayakumar, CEO & Managing Director, HCLTech.

“HCLTech offers a wealth of ServiceNow expertise to the world’s leading businesses,” said Bill McDermott, Chairman and CEO, ServiceNow. “It is an honor to extend our partnership to the cocreation of industry specific GenAI solutions that will ignite our customers’ growth engines with transformative experiences.”

Under the new global partnership, HCLTech will offer consulting, design, implementation, and managed services through ServiceNow’s entire suite of products. Blending the power of ServiceNow products with HCLTech’s industry expertise, IPs and global delivery capabilities, this partnership will deliver use cases and solutions, enabling enterprises to increasingly adopt ServiceNow’s industry domain-specific GenAI to transform their business. The partnership will help enterprises realize cost savings and enhance cross-department efficiency and productivity.

HCLTech and ServiceNow will also launch a ServiceNow business unit and the ‘Fluid NOW’ centers of excellence in London, New York and Noida for enterprises to explore the latest GenAI solutions that can accelerate their digital transformation journeys.

L&T Technology Services collaborates with Intel to scale Edge-AI solutions

5 March 2024

L&T Technology Services Limited, a prominent global digital engineering and R&D services company, has announced a collaboration with Intel Corporation aimed at developing and

providing scalable edge-AI solutions for a range of use cases, including Cellular Vehicle-to-Everything (CV2X) applications.

LTTS' expertise in the domains of connected vehicles and smart transportation systems has been pivotal in the development and implementation of advanced communication technologies like telematics, ADAS and C2VX. By harnessing Intel's Edge Platform, including built-in AI runtime the with OpenVINO™ inference for real-time AI inferencing optimization, LTTS will empower on-premises and hybrid AI scenarios for traffic management and emergency safety in smart cities and transportation. These scenarios typically demand advanced networking and AI analytics at the edge, meeting stringent real-world needs with low latency, locality, and cost requirements.

This collaboration underscores LTTS' commitment to push the envelope in smart cities and road infrastructure, facilitating and laying the groundwork for enabling intelligent transportation systems.

Intel's Edge Platform is a game-changing commercial software platform that is revolutionizing the way developers engineer, deploy, and manage distributed edge infrastructure and applications. It offers a comprehensive ecosystem with modular building blocks, premium service and support offerings, providing developers with an all-in-one solution for their edge computing needs.

Intel's approach is horizontal, which means it's designed to scale infrastructure across various industries, a departure from the traditional vertical approaches.

*"LTTS is delighted to collaborate with Intel on the launch of their new Edge Platform, which promises to democratize access to edge-AI solutions. By running seamlessly on standard hardware and featuring built-in edge-native AI runtime powered by OpenVINO for inferencing, this platform embodies innovation and efficiency," said, **Abhishek Sinha, Chief Operating Officer and Board Member at L&T Technology Services (LTTS)**. "With deep-rooted hardware optimization at its core, our enterprise customers can trust Intel's Edge Platform to propel them into a future of unparalleled performance and possibilities."*

*"Industries like transportation and smart cities- will benefit from technologies that expedite the design and implementation of vehicle-to-vehicle transportation, road safety, accident prevention, and enhanced mobility," added, **Pallavi Mahajan, Intel Corporate Vice President And General Manager of Network and Edge Group Software**. "The collaboration with LTTS on Intel's Edge Platform will simplify the exchange of critical information and streamline infrastructure management to improve results and lower TCO for customers."*

LTIMindtree Appoints Vipul Chandra as Chief Financial Officer

7 March 2024

LTIMindtree, a global technology consulting and digital solutions company, announced that its Board of Directors has appointed Vipul Chandra as the Chief Financial Officer ("CFO") of the Company with effect from April 25, 2024. Vinit Teredesai, who has been CFO since June 2020,

has decided to pursue his professional interest outside the Company. Vinit will continue to serve as CFO till April 24, 2024.

The Board of Directors place on record their deep appreciation for Vinit's contribution to the company during his tenure. Joining the erstwhile Mindtree during the pandemic, Vinit played a key role in the profitable growth journey of the organization by establishing strong financial controls and governance. He also significantly contributed to the successful merger of LTI and Mindtree and continued to serve as CFO after the merger.

Vipul has a distinguished career spanning nearly three decades in Financial Markets, Risk Management, Banking Operations, and Treasury Management. Joining L&T in October 2013 as the Head of Treasury in Corporate Finance, he has been instrumental in leading the efforts of the company in capital structuring and allocation, resource mobilization, working capital and financial risk management across the group. Vipul has also significantly contributed to the execution of several strategic financial transactions such as IPO, OFS, share buybacks, and business portfolio divestments.

Prior to joining L&T, he worked with Citibank in India as Managing Director, Head of Corporate Sales and Structuring in the Global Markets business. He is an Engineer with specialization in Electronics and Communication from Delhi College of Engineering and is also a Post-Graduate (Diploma in Management) from IIM Calcutta.

Commenting on the appointment, A. M. Naik, Chairman, LTIMindtree said, "Leadership planning is one of the key focus areas of L&T Group. Through career progression mapping we ensure that key talent gets experience of multiple roles within the system. Vipul Chandra has been in various senior roles within the organization for more than a decade. Through his experience of 3 decades & his in-depth knowledge about L&T group we are sure he would lead the finance function of LTIMindtree ably. I would also like to appreciate the work done by Vinit Teredesai and wish him well for his future endeavors".

Debashis Chatterjee, CEO & MD, LTIMindtree said, "I would like to welcome Vipul to LTIMindtree, and I am sure that his long association with the L&T Group would provide immense value to LTIMindtree. I would also like to thank Vinit for his contribution to the success of the organization and wish him the very best for the future."

Matterport and KnowHow Partner to Accelerate Worker Training and Onboarding for Digital Twin Solutions in the Restoration Sector

6 March 2024

Matterport, Inc. and KnowHow, a leading software platform to onboard, skill up, and equip workforces in the restoration industry, announced a partnership to deliver comprehensive 'just-in-time' online system training for Matterport's Digital Twin Platform to all KnowHow customers.

On average, turnover rate in construction and restoration is roughly 21%, with employees 24 or younger as high as 64%. As restoration crews face ongoing turnover, teams are increasingly

turning to technologies like KnowHow to upskill employees that are new to the industry, or inexperienced for a specific job.

Through this partnership, KnowHow will offer its vast network of restoration professionals comprehensive training for Matterport's entire solution, from operating the Pro series cameras to capturing and documenting spaces effectively, ensuring optimal use of Matterport's Digital Twin Platform in their projects.

KnowHow is the leading software for onboarding and equipping workers in the restoration industry, supporting owners, franchisors, general managers, project managers, and field staff with digital, on the job training. With more than 150,000 step-by-step processes created by restoration staff, KnowHow provides its customers with intuitive training that ensures every worker has easy access to the knowledge they need to succeed in their role.

“Matterport is consistently ranked by restoration leaders as one of the industry’s top tools for photo documentation of job sites in our State of the Industry survey,” said Leighton Healey, Chief Executive Officer of KnowHow. “KnowHow helps customers get full horsepower out of tools like Matterport, ensuring staff know when and how to use it, regardless of their level of experience or language preference. This partnership reinforces Matterport’s fierce commitment to empowering their customers with all the tools they need to be successful in their role, and KnowHow’s dedication to building a confident workforce.”

Matterport’s digital twin technology transforms physical buildings and spaces into photorealistic 3D replicas. For the restoration industry, these easy to navigate 3D spaces deliver accurate, transparent, and fair documentation that save crews time, cuts costs, and helps them complete jobs much faster.

As part of Matterport's Winter 2024 Release: Automating the Future, Matterport launched Property Intelligence, its proprietary collection of AI-powered features that provides customers with access to automated measurements, layouts, editing, and reporting capabilities generated from a Matterport digital twin of their property. This can assist restoration professionals with better cost estimates for maintenance, reduce time spent traveling to site for additional detail, as well as increase collaboration with customers to ensure better project clarity that ultimately drives the best results.

"In an industry with consistent turnover, KnowHow is leading the charge in shrinking the skill gap for restoration professionals," said Jay Remley, Chief Revenue Officer, Matterport.

“KnowHow is an ideal partner to evangelize our solutions for the restoration industry, helping crews succeed quickly with confidence when using our digital twin solutions to help them complete jobs faster, more effectively.”

Matterport’s best practices and procedures are available to every new and existing KnowHow customer, on their desktop or mobile devices via the KnowHow app. With KnowHow’s step-by-step walkthroughs, restoration teams can get up to speed on Matterport’s services faster than ever.

Roadzen Appoints Bruce Goldberg as General Counsel

5 March 2024

Roadzen Inc., a global leader in AI-led insurance and mobility products, is excited to announce the appointment of Bruce Goldberg as General Counsel. With over three decades of executive experience overseeing legal, compliance, M&A, and HR in several public technology companies, Bruce brings a wealth of knowledge and a proven track record of success in scaling legal operations.

His leadership will play an integral role in steering Roadzen through future opportunities, ensuring that the company's legal strategies support its growth and innovation. His appointment is part of our continued effort to strengthen the leadership team and build core operational capabilities for future growth.

Speaking on his new role, Bruce Goldberg said, "Roadzen's commitment to innovation and excellence in insurance technology presents an exciting challenge and a significant opportunity. I am excited to join Roadzen at this pivotal moment and look forward to working with the entire team to pave the way for the insurance industry's transformation using AI."

Rohan Malhotra, CEO of Roadzen, commented that "Bruce brings decades of experience operating as a senior executive in public companies, having served as CEO, Chief of Staff and Chief Legal Officer. His expertise in building legal operations will be of great value and we look forward to the impact he will have at Roadzen."

Prior to joining Roadzen, Bruce served as the Vice President, Chief of Staff and Chief Legal Officer at SMART Global Holdings, Inc., where he played a vital role in managing legal, compliance and human resources for the company's global operations. Before SMART Global, he held various executive roles with All American Semiconductor, Inc., culminating in his eventual tenure as President and CEO.

Bruce holds a Juris Doctor from the University of Miami's School of Law and a Bachelor of Business Administration in Finance from the University of Miami.

SimuTech Group Named Apex Channel Partner

5 March 2024

SimuTech Group is excited to announce our elevation to Ansys Apex Channel Partner status. Being awarded this distinction further highlights our commitment to fostering superior partnerships and our deep dedication to both our customers and Ansys.

We have a rich history of Ansys partnership dating back to 1982. In 1982, JLR Engineering Solutions, Co. became one of the first Ansys Channel Partners to sell, teach, and support the software. As the breadth of Ansys products continued to expand across physics disciplines, SimuTech Group Founder Ken Lally identified and acquired several North American Ansys Channel Partners during the early 2000s, including JLR engineering.

In 2008, SimuTech Group was established to integrate the multiple businesses. This integration made SimuTech Group the largest Ansys Channel Partner in North America, and with it came

the unique ability to provide engineering expertise and customer support across the range of Ansys simulation capabilities.

Since then, SimuTech Group has achieved the highest level of recognition as an Ansys Channel Partner (Elite Status, 2019; Apex Status 2024) and was recently recognized as one of the fastest-growing private companies in the Greater Rochester, NY area. We have been able to achieve this top-tier status through our dedication to our customers, our deep engineering expertise, our investment in our Ansys partnership, and continually exceeding business goals

With headquarters in Rochester, NY and multiple regional offices across the US and Canada, SimuTech employs a staff of 140+ professionals.

As an Apex Channel Partner, SimuTech Group offers specialized industry knowledge, tailored training, and consulting services to help customers fully leverage Ansys solutions for their unique simulation requirements.

As one of only five Apex Channel Partners globally, we undergo thorough training in Ansys technology and meet strict certification and resource criteria. The Apex status is awarded to channel partners who achieve specific benchmarks in customer satisfaction, extensive technology expertise, exceptional on-going Ansys growth, and more.

Event News

Autodesk to present at upcoming investor conference

1 March 2024

Autodesk, Inc. announced its executives will be speaking at the following investor conference:

March 13, 2024 2024 J.P. Morgan Industrials Conference

A live webcast and replay of the presentations will be available through Autodesk's Investor Relations Website at investors.autodesk.com. Please go to the website 15 minutes early to register, download and install any necessary software. More information will be available on investors.autodesk.com.

Qualtrics Reveals Agenda and Speakers for X4™ 2024, the Experience Management Summit

5 March 2024

Qualtrics, the leader and creator of the experience management category, revealed additional keynote speakers and the full agenda for X4: The Experience Management Summit, taking place May 1-3 in Salt Lake City.

The annual event, which brings together leaders and experts from top brands around the world, will feature a keynote conversation with former First Lady Michelle Obama, OpenAI CTO Mira Murati, American Express CEO Steve Squeri, Delta CEO Ed Bastian and Hilton President and CEO Chris Nassetta will also share insights from the main stage.

NBA Hall-of-Famer, investor and philanthropist Dwyane Wade will discuss developing a championship mindset. Eight-time World Cup Champion, Olympic gold medalist, entrepreneur, and philanthropist Lindsey Vonn will reflect on how to overcome adversity and dig deep to find what drives you.

X4 2024 will bring together more than 10,000 C-suite executives, and industry leaders in frontline, digital, and customer care professionals to hear from some of the world's largest brands and organizations. Attendees will leave ready to drive immediate impact in their own organizations.

"We've got an exceptional line-up of visionary and inspirational speakers as well as essential content at this year's X4," said Qualtrics CEO Zig Serafin. "Attendees will leave with a clear vision and actionable knowledge to improve experiences for their customers and employees and drive tangible outcomes for their organizations."

Highlights from the agenda:

The agenda includes more than 60 breakout sessions across seven tracks, including customer experience, employee experience, strategy and research, education, healthcare, government and financial services.

Attendees will learn from leaders and practitioners who are unlocking business value with their experience management programs.

Speakers from leading brands across industries, including: Cirque du Soleil, Adidas, Johnson & Johnson, Nationwide, Shake Shack, Owens Corning will be featured. In addition, attendees can attend hands-on training sessions with Qualtrics XM Experts.

To register and for more information, visit www.qualtrics.com/x4summit.

Rockwell Automation to Present at BofA Global Industrials Conference

6 March 2024

Rockwell Automation, Inc. Senior Vice President, Intelligent Devices, Tessa Myers, will present at BofA Global Industrials Conference on Wednesday, March 20, 2024, in London.

The fireside chat will be webcast beginning at approximately 2:50 p.m. GMT and will be available on the Rockwell Automation Investor Relations website at www.rockwellautomation.com/en-us/investors.html.

Vectorworks at Prolight + Sound 2024

8 March 2024

The leading CAD software in the event industry invites you to Prolight + Sound in Frankfurt from March 19th to 22nd. In Hall 12.0 at booth E58, national and international experts will showcase the versatile capabilities of Vectorworks Spotlight and will be available to answer any questions.

Vectorworks provides an ideal platform for event professionals and newcomers to inform themselves, engage in personal exchanges, and gain valuable insights. Our experts are attentive

and ready to answer questions about cable planning, trussing, GDTF & MVR, Braceworks, Vision, ConnectCAD, and much more.

International Vectorworks Expertise

Supported by product experts from the US manufacturer Vectorworks, Inc., on-site interested parties and users have the opportunity to benefit from international expertise. Through networking and personal exchanges, all participants can learn from each other to experience the full potential of Vectorworks and share it with colleagues.

Prolight + Sound 2024 offers planners from the event industry the opportunity to discover how efficient collaboration with Vectorworks Spotlight can be. Especially in the areas of lighting, sound, stage construction, and video technology for film, television, theater, and show stages, the software provides real added value. As a universal tool in the design field, Vectorworks Spotlight supports users in tasks such as stage design, lighting design, event planning, trade fair construction, and technical documentation.

Interested parties can schedule a personal appointment in advance here: <https://www.computerworks.de/termine/messetermine/anmeldung/166.html>

Financial News

Accenture to Announce Second-Quarter Fiscal 2024 Results

5 March 2024

Accenture will host a conference call at 8:00 a.m. EDT on Thursday, March 21, 2024 to discuss its second-quarter fiscal 2024 financial results. An earnings news release will be issued before the call.

To participate in the teleconference, please dial +1 (877) 692-8955 [+1 (234) 720-6979 outside the U.S., Puerto Rico and Canada] and enter access code 6586099 approximately 15 minutes before the scheduled start of the call. The conference call will also be accessible live via webcast on the Investor Relations section of the Accenture website at www.accenture.com.

A replay of the conference call will be available at www.accenture.com and at +1 (866) 207-1041 [+1 (402) 970-0847 outside the U.S., Puerto Rico and Canada] with access code 7186351, from 11:00 a.m. EDT on Thursday, March 21, 2024 through Wednesday, June 19, 2024.

AUTODESK, INC. ANNOUNCES FISCAL 2024 FOURTH QUARTER AND FULL-YEAR RESULTS

29 February 2024

Autodesk, Inc. reported financial results for the fourth quarter and full year of fiscal 2024.

All growth rates are compared to the fourth quarter and full year of fiscal 2023, respectively, unless otherwise noted. A reconciliation of GAAP to non-GAAP results is provided in the accompanying tables. For definitions, please view the Glossary of Terms later in this document.

Fourth Quarter Fiscal 2024 Financial Highlights

- Total revenue increased 11 percent to \$1.47 billion;
- GAAP operating margin was 21 percent, flat compared to the prior period;
- Non-GAAP operating margin was 36 percent, flat compared to the prior period;
- GAAP diluted EPS was \$1.31; Non-GAAP diluted EPS was \$2.09;
- Cash flow from operating activities was \$437 million; free cash flow was \$427 million.

"We are undertaking a multi-year process to develop lifecycle solutions, powered by shared platform services, and with Autodesk's Data Model at its core. Together, these will enable Autodesk, its customers, and partners, to create more valuable, data-driven, and connected products and services," said Andrew Anagnost, Autodesk president and CEO. "Having led the industry in generative design, we are leading again in 3D generative AI. Our new multimodal foundation models will enable design and make customers to automate low-value and repetitive tasks and generate more high-value, complex designs more rapidly and with much greater consistency. We can already generate 3D representations from images 10 times faster and with vastly higher quality than currently available 3D AI."

"Autodesk remains resilient and underlying demand for our products and services is robust. As a result, revenue grew 14 percent at constant currency in the fourth quarter," said Debbie Clifford, Autodesk CFO. "Adjusting the mid-point of our guidance to exclude noise from the new transaction model, acquisitions, the absence of EBA true-up revenue, and FX, we expect underlying revenue to grow more than 10 percent in fiscal 25."

Fourth Quarter Fiscal 2024 Additional Financial Details

- Total billings decreased 19 percent to \$1.71 billion.
- Total revenue was \$1.47 billion, an increase of 11 percent as reported, and 14 percent on a constant currency basis. Recurring revenue represents 98 percent of total.
- Design revenue was \$1.22 billion, an increase of 10 percent as reported, and 12 percent on a constant currency basis. On a sequential basis, Design revenue increased 2 percent as reported and on a constant currency basis.
- Make revenue was \$138 million, an increase of 16 percent as reported, and 17 percent on a constant currency basis. On a sequential basis, Make revenue increased 3 percent as reported and on a constant currency basis.
- Subscription plan revenue was \$1.34 billion, an increase of 10 percent as reported, and 13 percent on a constant currency basis. On a sequential basis, subscription plan revenue increased 2 percent as reported, and 3 percent on a constant currency basis.
- Net revenue retention rate was within the range of 100 to 110 percent on a constant currency basis.

- GAAP operating income was \$315 million, compared to \$277 million in the fourth quarter last year. GAAP operating margin was 21 percent, flat compared to the prior period.
- Total non-GAAP operating income was \$522 million, compared to \$479 million in the fourth quarter last year. Non-GAAP operating margin was 36 percent, flat compared to the prior period.
- GAAP diluted net income per share was \$1.31, compared to \$1.35 in the fourth quarter last year.
- Non-GAAP diluted net income per share was \$2.09, compared to \$1.86 in the fourth quarter last year.
- Deferred revenue decreased 7 percent to \$4.26 billion. Unbilled deferred revenue was \$1.84 billion, an increase of \$801 million compared to the fourth quarter last year. Remaining performance obligations (RPO) increased 9 percent to \$6.11 billion. Current RPO increased 13 percent to \$3.98 billion.
- Cash flow from operating activities was \$437 million, a decrease of 474 million compared to the fourth quarter last year. Free cash flow was \$427 million, a decrease of \$476 million compared to the fourth quarter last year.

Net Revenue by Geographic Area

	Three Months Ended January 31, 2024		Three Months Ended January 31, 2023		Change compared to prior fiscal year		Constant currency change compared to prior fiscal year
	\$	%	\$	%	\$	%	%
<i>(In millions, except percentages)</i>							
Net Revenue:							
Americas							
U.S.	\$ 517		\$ 451		\$ 66	15 %	*
Other Americas	139		101		38	38 %	*
Total Americas	656		552		104	19 %	19 %
Europe, Middle East and Africa	546		508		38	7 %	11 %

Asia Pacific	267	258	9	3 %	8 %
Total Net Revenue	\$ 1,469	\$ 1,318	\$ 151	11 %	14 %

* Constant currency data not provided at this level.

Net Revenue by Product Family

Our product offerings are focused in four primary product families: Architecture, Engineering and Construction ("AEC"), AutoCAD and AutoCAD LT, Manufacturing ("MFG"), and Media and Entertainment ("M&E").

<i>(In millions, except percentages)</i>	Three Months Ended		Change compared to prior fiscal year	
	January 31, 2024	January 31, 2023	\$	%
AEC	\$ 696	\$ 602	\$ 94	16 %
AutoCAD and AutoCAD LT	377	362	15	4 %
MFG	292	257	35	14 %
M&E	77	74	3	4 %
Other	27	23	4	17 %
Total Net Revenue	\$ 1,469	\$ 1,318	\$ 151	11 %

Fiscal 2024 Financial Highlights

- Total billings decreased 11 percent to \$5.18 billion.
- Total revenue was \$5.50 billion, an increase of 10 percent as reported, and 13 percent on a constant currency basis. Recurring revenue represents 98 percent of total.
- Design revenue was \$4.65 billion, an increase of 9 percent as reported, and 12 percent on a constant currency basis.

- Make revenue was \$523 million, an increase of 16 percent as reported, and 18 percent on a constant currency basis.
- Subscription plan revenue was \$5.12 billion, an increase of 10 percent as reported, and 13 percent on a constant currency basis.
- Total subscriptions increased approximately 785 thousand from the end of fiscal 2023 to 7.53 million at the end of fiscal 2024. Total subscriptions adjusted for the multi-user trade-in increased approximately 715 thousand from fiscal 2023 to 6.97 million.
- GAAP operating income was \$1.13 billion, compared to \$989 million last year. GAAP operating margin was 21 percent, up 1 percentage point.
- Total non-GAAP operating income was \$1.96 billion, compared to \$1.79 billion last year. Non-GAAP operating margin was 36 percent, flat compared to the prior period.
- GAAP diluted net income per share was \$4.19, compared to \$3.78 last year.
- Non-GAAP diluted net income per share was \$7.60, compared to \$6.63 last year.
- Cash flow from operating activities decreased to \$1.31 billion, compared to \$2.07 billion in fiscal 2023. Free cash flow decreased to \$1.28 billion, compared to \$2.03 billion in fiscal 2023.

Net Revenue by Geographic Area

	Fiscal Year Ended		Change compared to		Constant
	January 31, 2024	January 31, 2023	prior fiscal year		currency c
					ompared
					prior fisca
			\$	%	%
<i>(In millions, except percentages)</i>					
Net Revenue:					
Americas					
U.S.	\$ 1,978	\$ 1,720	\$ 258	15 %	*
Other Americas	460	372	88	24 %	*
Total Americas	2,438	2,092	346	17 %	17 %
EMEA	2,042	1,906	136	7 %	12 %

APAC	1,017	1,007	10	1 %	6 %
Total Net Revenue	\$ 5,497	\$ 5,005	\$ 492	10 %	13 %

* Constant currency data not provided at this level.

Net Revenue by Product Family

Our product offerings are focused in four primary product families: AEC, AutoCAD and AutoCAD LT, MFG, and M&E.

<i>(In millions, except percentages)</i>	Fiscal Year Ended		Change compared to prior fiscal year	
	January 31, 2024	January 31, 2023	\$	%
AEC	\$ 2,580	\$ 2,278	\$ 302	13 %
AutoCAD and AutoCAD LT	1,462	1,387	75	5 %
MFG	1,063	978	85	9 %
M&E	295	291	4	1 %
Other	97	71	26	37 %
Total Net Revenue	\$ 5,497	\$ 5,005	\$ 492	10 %

Business Outlook

The following are forward-looking statements based on current expectations and assumptions, and involve risks and uncertainties, some of which are set forth below under "Safe Harbor Statement." Autodesk's business outlook for the first quarter and full-year fiscal 2025 takes into consideration the current economic environment and foreign exchange currency rate environment. A reconciliation between the fiscal 2024 GAAP and non-GAAP estimates is provided below or in the tables later in this document.

First Quarter Fiscal 2025

Q1 FY25 Guidance Metrics	Q1 FY25 (ending April 30, 2024)
Revenue (in millions)	\$1,385 – \$1,400
EPS GAAP	\$0.96 – \$1.01
EPS non-GAAP (1)	\$1.73- \$1.78

(1) Non-GAAP earnings per diluted share excludes \$0.72 related to stock-based compensation expense, \$0.11 for the amortization of both purchased intangibles and developed technologies, and \$0.08 for acquisition-related costs, partially offset by (\$0.14) related to GAAP-only tax charges.

Full-Year Fiscal 2025

FY25 Guidance Metrics	FY25 (ending January 31, 2025)
Billings (in millions)	\$5,810 – \$5,960 Up 12% – 15%
Revenue (in millions) (1)	\$5,990 – \$6,090 Up 9% – 11%
GAAP operating margin	20% – 21%
Non-GAAP operating margin (2)	35% – 36%
EPS GAAP	\$4.41 – \$4.63
EPS non-GAAP (3)	\$7.89 – \$8.11
Free cash flow (in millions) (4)	\$1,430 – \$1,500

- (1) Excluding the impact of foreign currency exchange rates and hedge gains/losses, revenue guidance range would be approximately 1 percentage point higher.
- (2) Non-GAAP operating margin excludes approximately 12% related to stock-based compensation expense, approximately 2% for the amortization of both purchased intangibles and developed technologies, and approximately 1% related to acquisition-related costs.
- (3) Non-GAAP earnings per diluted share excludes \$3.39 related to stock-based compensation expense, \$0.50 for the amortization of both purchased intangibles and developed technologies, and \$0.26 related to acquisition-related costs, partially offset by (\$0.67) related to GAAP-only tax charges.
- (4) Free cash flow is cash flow from operating activities less approximately \$30 million of capital expenditures.

The first quarter and full-year fiscal 2025 outlook assume a projected annual effective tax rate of 21 percent for GAAP and 19 percent for non-GAAP results, respectively. Shifts in geographic profitability continue to impact the annual effective tax rate due to significant differences in tax rates in various jurisdictions. As such, assumptions for the annual effective tax rate are evaluated regularly and may change based on the projected geographic mix of earnings.

Earnings Conference Call and Webcast

Autodesk will host its fourth quarter conference call today at 5 p.m. ET. The live broadcast can be accessed at autodesk.com/investor. A transcript of the opening commentary will also be available following the conference call.

A replay of the broadcast will be available at 7 p.m. ET at autodesk.com/investor. This replay will be maintained on Autodesk's website for at least 12 months.

Investor Presentation Details

An investor presentation, excel financials and other supplemental materials providing additional information can be found at autodesk.com/investor.

Nano Dimension Announces Conference Call to Discuss Q4 and Full Year 2023 Record Results

7 March 2024

Nano Dimension Ltd. ("Nano Dimension" or the "Company"), a leading supplier of Additively Manufactured Electronics ("AME") and multi-dimensional polymer, metal & ceramic Additive Manufacturing ("AM") 3D printing solutions, announced that it will release its financial results for the fourth quarter and full year of 2023 before the Nasdaq market opens on Thursday, March 21st, 2024.

Mr. Yoav Stern, Chief Executive Officer and Member of the Board of Directors, Mr. Tomer Pinchas, Chief Financial Officer and Chief Operating Officer, and Mr. Julien Lederman, VP of Corporate Development, of Nano Dimension will host a conference call on March 21st, 2024, at 9:00 am ET, to discuss the financial results.

Participants can register for the conference by navigating to: <https://dpregrister.com/sreg/10186876/fbb757cdc0>

The call can be accessed via webcast link or phone as detailed below.

For webcast

link: <https://event.choruscall.com/mediaframe/webcast.html?webcastid=3Z1noPJV>

For phone:

U.S. Dial-in Number (Toll Free): 1-844-695-5517

International Dial-in Number: 1-412-902-6751

Israel Dial-in Number (Toll Free): 1-80-9212373

Participants will be required to state their name and company upon entering the call.

A replay will be available after the end of the conference call on Nano Dimension's website.

Stratasys Releases Fourth Quarter and Full Year 2023 Financial Results

7 March 2024

Stratasys Ltd., a leader in polymer 3D printing solutions, announced financial results for the fourth quarter and full year 2023.

Dr. Yoav Zeif, Stratasys' Chief Executive Officer stated, "We continued to differentiate ourselves in 2023, achieving our tenth consecutive quarter of profitability on an adjusted basis. We also delivered 1.3% full year revenue growth when adjusted for divestitures despite a persistently challenging backdrop for our customers. Revenue in the fourth quarter was driven by another record for consumables sales, demonstrating how utilization of our systems remains strong, while a relentless focus on cost control contributed to improved margins."

Dr. Zeif continued, "We are innovating and investing as we expand our leadership in additive manufacturing. Our newest and most advanced FDM offering, the F3300, is building a strong pipeline of interest after announcing Toyota as its first customer, and engagement across our entire suite of offerings remains robust. As macro-economic conditions normalize and capital spending constraints ease, we believe the pent-up demand for our best-in-class offerings will unlock, driving the next phase of outsized growth and increased profitability for our company."

Summary - Fourth Quarter 2023 Financial Results Compared to Fourth Quarter 2022:

- Revenue of \$156.3 million compared to \$159.3 million.
- GAAP gross margin of 44.7%, compared to 43.1%.
- Non-GAAP gross margin of 48.8%, compared to 48.4%.
- GAAP operating income of \$5.7 million, compared to operating income of \$1.6 million.

- Non-GAAP operating income of \$2.0 million, compared to operating income of \$5.1 million.
- GAAP net loss of \$15.0 million, or \$0.22 per diluted share, compared to a net loss of \$2.4 million, or \$0.04 per diluted share.
- Non-GAAP net income of \$1.6 million, or \$0.02 per diluted share, compared to net income of \$4.6 million, or \$0.07 per diluted share.
- Adjusted EBITDA of \$7.7 million, compared to \$10.7 million.
- Cash used in operations of \$7.7 million, compared to cash used in operations of \$18.1 million.

Summary - 2023 Financial Results Compared to 2022:

- Revenue of \$627.6 million compared to \$651.5 million.
- GAAP gross margin of 42.5%, compared to 42.4%.
- Non-GAAP gross margin of 48.2%, compared to 48.0%.
- GAAP operating loss of \$87.6 million, compared to an operating loss of \$57.2 million.
- Non-GAAP operating income of \$12.6 million, compared to operating income of \$13.5 million.
- GAAP net loss of \$123.1 million, or \$1.79 per diluted share, compared to a loss of \$29.0 million, or \$0.44 per diluted share.
- Non-GAAP net income of \$7.7 million, or \$0.11 per diluted share, compared to net income of \$10.3 million, or \$0.15 per diluted share.
- Adjusted EBITDA of \$35.0 million, compared to \$36.1 million.
- Cash used in operations of \$61.6 million, compared to cash used in operations of \$75.4 million.

Financial Outlook:

Based on current market conditions and assuming that the impacts of global inflationary pressures, relatively high interest rates and supply chain costs do not impede economic activity further, the Company is providing the following outlook for 2024:

- Full year revenue of \$630 million to \$645 million, improving sequentially through the year.
 - Compare to 2023 revenue of approximately \$616 million excluding divestments and annualizing Covestro.
- Based on current logistics and materials costs, full year gross margins of 49.0%-49.5%, improving sequentially through the year.
- Full year operating expenses in a range of \$292 million to \$297 million.

- Full year non-GAAP operating margins in a range of 2.5% to 3.5%.
- GAAP net loss of \$88 million to \$72 million, or (\$1.24) to (\$1.01) per diluted share.
- Non-GAAP net income of \$9 million to \$14 million, or \$0.12 to \$0.19 per diluted share.
- Adjusted EBITDA of \$40 million to \$45 million.
- Capital expenditures of \$20 million to \$25 million.
- Positive cash flow from operating activities.

Non-GAAP earnings guidance excludes \$29 million to \$31 million of projected amortization of intangible assets, \$26 million to \$28 million of share-based compensation expense, and reorganization and other expenses of \$29 million to \$35 million. Non-GAAP guidance includes tax adjustments of \$2 million to \$3 million on the above non-GAAP items.

Appropriate reconciliations between historical GAAP and non-GAAP financial measures are provided in a table at the end of our press release and slide presentation, with itemized detail concerning the non-GAAP financial measures.

Stratasys Ltd. Fourth Quarter 2023 Webcast and Conference Call Details

The Company plans to webcast its conference call to discuss its fourth quarter 2023 financial results on Thursday, March 7, 2024, at 8:30 a.m. (ET).

The investor conference call will be available via live webcast on the Stratasys Web site at investors.stratasys.com, or directly at the following web address:

<https://event.choruscall.com/mediaframe/webcast.html?webcastid=cZzaGIQr>

To participate by telephone, the U.S. toll-free number is 877-407-0619 and the international dial-in is +1-412-902-1012. Investors are advised to dial into the call at least ten minutes prior to the call to register. The webcast will be available for six months at investors.stratasys.com, or by accessing the above-provided web address.

Implementation Investments

Ansys Named Preferred Supplier for Hyundai Motor Company's Next-Gen Vehicle Analysis

5 March 2024

Hyundai motor company named Ansys a preferred supplier of structural simulation solutions for body system analysis that will ultimately support improvements to the safety and comfort of tomorrow's passengers. Ansys' strong market strategy, predictive accuracy, and commitment to product development rose above competitive offerings to become Hyundai's preferred supplier.

For automotive companies with well-established product development processes, transitioning from one simulation tool to another demands extensive time and strict evaluation standards. Hyundai benchmark tested multiple simulation solutions over the course of 18 months,

exploring areas such as model analysis accuracy, high-performance computing throughput, and future product strategy.

Ansys Mechanical, the leading finite element analysis tool, and LS-DYNA, the leading explicit simulation tool for crash safety analysis, outperformed competitors and demonstrated stronger analysis accuracy, better performance in data processing, and a robust future technology development strategy. These high-performance capabilities will be utilized in the analysis of body system durability, stiffness, and strength.

“Adopting a new simulation product requires detailed application and operational planning of the solution for each vehicle development stage, and thorough validation by both the manufacturer and solution supplier,” said Ill-Joo Noh, MPV and small sized vehicle chassis and body CAE team of Hyundai motor company. “To remain leaders in the increasingly technological industry, we must work closely with our partners to ensure our current and future needs are met. Ansys demonstrated its excellent simulation performance meets our current and future requirements, proving it can operate at scale for complex solutions.”

“Hyundai’s evaluation and decision illustrate Ansys’ ability to meet the needs of the automotive industry’s biggest and most complex engineering challenges,” said Shane Emswiler, senior vice president of products at Ansys. “We are continuously enhancing Mechanical to work seamlessly with LS-DYNA to provide our partners with a full solution. Ansys and Hyundai share an unwavering commitment to innovation and quality, and together we will usher in a new era of safe, comfortable, and reliable vehicles.”

Aspen Technology Helps Adani Electricity Ensure Reliable Power Supply to Three Million Customers in Mumbai

27 February 2024

Aspen Technology, Inc., a global leader in industrial software, announced the implementation of its digital grid management solutions by Adani Electricity, a leading power company in India. AspenTech’s next generation SCADA system and its Advanced Distribution Management System (ADMS) have been incorporated into Adani Electricity’s new network operation center located in Hiranandani Powai to monitor and control in real-time an intelligent power grid that provides reliable, safe and secure service to its more than three million customers throughout Mumbai. With this implementation, Adani Electricity positions itself as a leader among the most advanced utilities in the region.

“Electrical grids around the world are at a crucial juncture. Increased consumer expectations, acceleration of the clean energy transition, evolving regulations and expanding cyber and extreme weather-related challenges are introducing new levels of complexity and unpredictability,” said Antonio Pietri, President and CEO at AspenTech. “AspenTech is pleased to partner with Adani and deliver the solutions that help ensure safe, reliable and efficient service for the future.”

By implementing AspenTech OSI digital grid management solutions in its new network operations center, Adani Electricity can predict and prevent outages, more quickly restore

service in the case of unforeseen disruptions, optimize network efficiency in support of reduced electricity bills and seamlessly integrate renewable energy sources, such as solar and wind, for a more sustainable distribution network.

Said Kandarp Patel, Managing Director of Adani Electricity, “The launch of our Powai Network Operation Center with India’s first ADMS is a watershed moment for Adani Electricity and for Mumbai’s power landscape. We are proud of this technological advancement as it redefines network reliability, paves the way for a greener future and powers a more resilient Mumbai.”

The collaboration between AspenTech and Adani Electricity is part of the power company’s aim to provide 60 percent renewable electricity to Mumbai by 2027. Adani Electricity’s service area covers 85 percent of Mumbai’s geography, serving almost 70 percent of its population.

Bechtel Plant Machinery Inc. Selects Velo3D’s Metal Additive Manufacturing Solution To Revolutionize the Supply Chain for the U.S. Navy

7 March 2024

Velo3D, Inc. announced Bechtel Plant Machinery Inc. (BPMI) has selected a fully integrated metal additive manufacturing solution from the company to produce parts for the U.S. Naval Nuclear Propulsion Program. The Sapphire XC large format printer, calibrated for stainless steel 415, will be operated by ATI (NYSE: ATI) at its new additive manufacturing facility outside Fort Lauderdale, Florida. Earlier this year, BPMI awarded a contract to ATI to support development of highly engineered part solutions for advanced manufacturing methods including metal additive manufacturing. The partners will use the printer to produce parts previously produced through casting, reducing lead times for mission critical parts, and streamlining their supply chain.

Velo3D’s technology was developed in the United States and includes a fully integrated software and hardware solution. The company is headquartered in the United States, including its research and development, customer support, and manufacturing operations. Conventional 3D printers often struggle to produce parts with overhanging features beyond 45 degrees without support structures, however Velo3D’s proprietary technology offers the ability to produce parts with a wide variety of geometries with few-to-no supports. This has allowed the company to address applications that other 3D printing technologies cannot. In addition to using this technology to 3D print parts that are traditionally cast, Velo3D’s technology also enables more innovative designs to replace components currently in use. Furthermore, this capability can be scaled to additional machines across multiple locations and operators.

“BPMI and ATI’s progressive approach to 3D printing is extremely forward-thinking and this new, revolutionary facility will significantly augment the U.S. Navy’s supply chain for maintenance, repair, and operations,” said Brad Kreger, CEO at Velo3D. “Both companies are early adopters of metal 3D printing and innovators in the manufacturing industry. We look forward to working with them as they support the U.S. Navy’s fleet, including its aging vessels.”

The U.S. Navy currently operates approximately 300 vessels, many of which were commissioned decades ago. They, along with the broader U.S. Department of Defense, have

actively incorporated additive manufacturing, acknowledging its efficiency in supporting its aging equipment, enhancing warfighter readiness, and reducing replacement part lead-times. Additive manufacturing accomplishes this by enabling distributed supply chains and digital inventories where manufacturers can produce parts within spec across any similar printer calibrated for the same metal alloy. ATI's new secure facility, along with Velo3D's fully integrated solution, are significant steps forward in advancing the Navy's maintenance and operational capabilities.

"Printers with larger build volumes and the ability to print with less support structures are ideal for U.S. Naval Nuclear Propulsion Program applications," said Nathan Weiderspahn, BPMI Executive Manager, Industrial Base Management. "This additive manufacturing technology will greatly support our efforts in delivering new technology to the U.S. Navy and helping maintain its fleet of ships."

"ATI will be able to more easily additively produce complex parts with fewer support structures, at lower angles, and larger sizes than ever before," said Joe Thompson, General Manager of ATI Additive Manufacturing Products. "This enables us to broaden the scope of possible part designs for our defense and aerospace customers, enabling higher performance and better quality. The business opportunity represented by these previously unproduceable part designs is significant."

BPMI's new Sapphire XC printer is the first such printer from Velo3D calibrated for stainless steel 415, an alloy of iron, chromium, and nickel that provides good tensile strength and corrosion resistance at a range of temperatures.

CAPGEMINI SIGNS LONG-TERM AGREEMENT WITH TENNET TO ACCELERATE ITS CLOUD TRANSFORMATION JOURNEY

27 February 2024

Capgemini Group announced the signing of a 12-year agreement with TenneT, a leading European transmission system operator in the Netherlands and Germany, to design, build, and implement a cloud platform that will enable TenneT to work more effectively across a wider ecosystem of partners. This platform will also provide the organization with more accurate insights and improved flexibility to manage the increasing volume of consumer, operational and financial data. As part of the agreement that is valued at more than €100 million, Capgemini will also enable faster adoption of emerging technologies by driving end-to-end migration from on-premises data centers to the cloud, providing a compliant and highly secure, fully managed cloud-based infrastructure for TenneT.

TenneT has over 23,500 kilometers of high-voltage connections impacting 42 million end-users in the Netherlands and parts of Germany. During the 12-year period, Capgemini will expand TenneT's awareness and expertise of cloud technology, providing training and coaching to help accelerate adoption. This will be complemented by technology strategy advisory and consulting services that aim to support seamless business transformation.

Mario Suykerbuyk, Chief Information Officer at TenneT said, *“We are growing very fast and our systems are expanding massively. We needed a future-proof, integrated, flexible, secure and scalable cloud foundation that will leverage operational automation, orchestration and standardization. We are confident that by working hand-in-hand with Capgemini we will take the next important step in TenneT’s transformation journey and Capgemini will help us to meet the demands of the energy transition.”*

The long-term partnership will leverage best-in-class expertise from across the Capgemini Group, including Sogeti. It will include the formation of a cloud office where the leadership team will collaborate to define strategies for cloud migration of the respective business applications, setting up financial operations that enable continuous cost optimization and enhancement of integral service management. It will also include overseeing the transition of the business IT landscape, the running and optimization of the cloud operations and coordination of additional services to enable transformation and change management.

Joost Ramaekers, Head of Sogeti, part of Capgemini, in the Netherlands said, *“The utilities sector is experiencing a significant transformation with energy transitioning from being a mere commodity to a comprehensive service, one that underpins and enhances all facets of our existence. It is therefore crucial for utility firms to construct ecosystems that not only empower consumers and businesses but also facilitate their active engagement in a dynamic energy landscape, encompassing a variety of solutions, products and providers. We are honored to collaborate with TenneT, as its trusted partner, to bolster their capacity as a premier high voltage grid operator. This will further cement their position as a key player in the energy ecosystem and enhance the flexibility, security and reliability of their services.”*

Houston METRO Selects Copperleaf Portfolio to Optimize Transit Asset Management

7 March 2024

Copperleaf® Technologies Inc. (“Copperleaf”) announces the selection of its decision analytics solution by the Metropolitan Transit Authority of Harris County (“METRO”), a major public transportation agency based in Houston, Texas.

METRO’s Transit Asset Management (TAM) group was established in 2017 to comply with the Federal Transit Authority TAM Rule and provide decision support to prioritize and justify capital investment needs. As trends and requirements in the North American transit asset management landscape have evolved to incorporate new drivers of value, such as risk, resilience, and equity, legacy tools are increasingly unable to meet the complex investment prioritization needs of many medium to large transit providers.

In late 2023, METRO recognized that transitioning from a manual Excel-based process to an Asset Investment Planning (AIP) solution could improve its ability to create transparent, defensible capital plans, address its State of Good Repair (SGR) backlog, and adapt quickly to changing financial and operational conditions.

Copperleaf Portfolio™ will enable METRO to establish a more consistent, data-driven process to assess and prioritize investments in the SGR backlog by adopting best practices in modeling, risk assessment, and project valuation. This will allow METRO to evaluate all projects on a common scale, incorporate all drivers of project value, develop risk mitigation scenarios, and create high-value plans that consider funding and staffing resource limitations. The Copperleaf solution will also give METRO the ability to quickly adapt plans to changing business and financial conditions and ensure investments are aligned with METRO's long-term mission and strategy.

The Copperleaf implementation at METRO is scheduled to go from kick-off to go-live in approximately three months, providing rapid time-to-value for the organization.

"We're thrilled to play a part in helping METRO implement asset management best practices and deliver on their mission of providing clean, safe and reliable public transportation services," said Phil Jones, Managing Director of Copperleaf in the Americas. "We thank METRO for putting their trust in us and are confident Copperleaf's value-based approach to capital planning will enable METRO and other transit organizations develop optimal plans that address the State of Good Repair backlog and comply with the FTA's decision support requirements."

ION Mobility drives electrification of personal urban mobility in Southeast Asia with Siemens Xcelerator

5 March 2024

Siemens Digital Industries Software announced that ION Mobility has used the Siemens Xcelerator portfolio of software and services to bring its breakthrough IONM1-S electric motorbike to market, which will help accelerate the electrification of mobility in Southeast Asia.

ION Mobility is an auto-tech company on a mission to create and deliver affordable, desirable, and sustainable mobility for everyone. The state-of-the-art design and precision engineered M1-S motorbike is the culmination of three years of rigorous effort, from a dedicated team of designers, engineers, and technologists across four countries to provide a sustainable urban solution, despite the challenges posed by the pandemic. It offers 150 km range, 4.3 kWh capacity with a less than 3-hours recharge time and a top speed of 105 km/h – all with 26 liters of under the seat storage and the compact agility that is demanded for a city bike.

ION Mobility used Siemens' NX™ software from the Siemens Xcelerator portfolio for styling, mechanical engineering and electric battery pack development, allowing the team to move from concept, through engineering and into manufacturing readiness. Siemens' NX software and Teamcenter® software for Product Lifecycle Management will also form the basis of supplier collaboration as the ION M1-S moves into a production value chain. In addition, ION Mobility has also adopted Siemens' Capital™ software for wire harness design and manufacturing. ION Mobility are supported by Siemens' sales partner, Dream Technology System Pte Ltd.

"Our design team has been working around the clock and across the globe to get the M1-S ready for production," said Wu Xianyi, chief operating officer, ION Mobility. "The combination

of Siemens' NX, Teamcenter and Capital will allow us to bring together the disciplines of styling, mechanical engineering and wire harness design and to work cohesively as a team to ensure our products not only look amazing but perform as needed by our demanding target customers. All accomplished amidst the global pandemic."

The Southeast Asia region is home to over 200 million combustion engine-powered two-wheelers. There is an increased urgency to shift towards electric motorbikes in the present, with more than 80 percent of households in Indonesia, Malaysia, Thailand and Vietnam owning motorcycles putting a burden on urban air quality and the environment.

"We are committed to creating great products and seamless user experiences for our customers. Our products combine advanced hardware and software technology with human-centred design to deliver smart electric motorbikes and energy storage solutions that are for everyone to use," said James Chan, CEO and Founder, ION Mobility. "Our vision is to lead our region's transition towards a low-carbon economy with electric and electric mobility products for consumers across Southeast Asia. The Siemens Xcelerator portfolio allows us to move rapidly from concept to production-ready product in the timeframe that start-ups require, allowing us to get ahead of the market and define new market categories."

"ION Mobility's work to address Southeast Asia's mobility challenge is testament to how the Siemens Xcelerator portfolio is enabling innovators and pioneers in SMBs to take their ideas from concept to product using the same world-class tools that only much larger organizations previously had access to," said Alex Teo, Vice President & Managing Director, South East Asia, Siemens Digital Industries Software. "We're delighted to see how ION Mobility is bringing the ION M1-S to market and how the accessibility of Siemens Xcelerator is enabling true innovation across so many industries."

Keysight Technologies Chosen as Test Partner for Deutsche Telekom Satellite NB-IoT Early Adopter Program

29 February 2024

Keysight Technologies, Inc. has been selected as the Test Partner for the Deutsche Telekom Satellite NB-IoT Early Adopter Program, providing an end-to-end narrowband internet of things (NB-IoT) non-terrestrial network (NTN) testbed to enable designers and developers to validate reference designs for solutions using 3GPP Release 17 (Rel-17) NTN standards.

Led by Deutsche Telekom in collaboration with Skylo and Murata, the Satellite NB-IoT Early Adopter Program addresses critical challenges posed by limited cellular coverage and enables data transmission across vast expanses. By incorporating satellite communication, the program accelerates the development and deployment of NB-IoT solutions, offering reliable, ubiquitous, and secure data transmission.

Program participants will gain exclusive access to cutting-edge solutions from Deutsche Telekom, Skylo, and Murata, including early development access to the first Rel-17 standards-based NB-IoT modules and a global satellite network. In addition, participants will receive state-

of-the-art hardware, connectivity services, dedicated support, and the opportunity to tailor NB-IoT NTN solutions to their specific needs.

As the Test Partner, Keysight provides program developers with access to the NB-IoT NTN testbed, which is based on Keysight's industry leading NTN test solutions, and to Skylo certification test plans. This ensures that certified NB-IoT-capable devices seamlessly integrate with the Skylo satellite network, offering unmatched flexibility and efficiency.

Jens Olejak, Head of Deutsche Telekom's Satellite IoT Program, said: "Keysight was chosen as Test Partner for the Satellite NB-IoT Early Adopter Program based on its extensive collaboration with all market makers, providing unparalleled NTN solutions from the earliest stages of development. This collaboration will empower developers to innovate with confidence, leveraging Keysight's expertise in leading solutions available today."

Lucas Hansen, Vice President, Wireless Devices and Operators, Keysight, said: "Keysight's unique position lies in our comprehensive expertise, which seamlessly leverages both cellular and satellite technologies, and by providing end-to-end solutions, including network modeling, protocol emulation, field testing, and application testing. Our NB-IoT NTN solutions set the standard for validating the dynamic capabilities of NB-NTN devices and systems, exemplified by our pioneering role in defining Skylo's test plan."

Leder & Schuh Group Boosts Margins with Centric Pricing & Inventory

4 March 2024

Centric Software® is delighted to announce the release of a success story about its customer, Leder & Schuh Group.

Established in 1872 and headquartered in Austria, Leder & Schuh Group (LSAG) began as a manufacturer in central Europe, becoming an established retail market leader in Austria today. The company owns the brands HUMANIC and Shoe4You, carrying a wide selection of international footwear brands for women, men and children in the mid-to-upper price range as well as bags and accessories.

To manage their pricing and markdowns, it was taking five people 5 days to complete the task, and with 12,000 SKUs, some of countries were just lumped together with others since they didn't have the staff to work on each geographic region individually. They knew that this was not optimal and that there had to be a better way.

LSAG set out to evaluate pricing systems. They reached out to other retailers to see what everyone was using, but found that there weren't many solutions that handled markdown management. Putting Centric Pricing & Inventory™ to the test—literally: pitting the current manual process vs. the system—positive outcomes emerged, which was just the proof they needed.

With AI-driven Centric Pricing & Inventory, the automated pricing addresses each region individually, resulting in higher margins. Centric Pricing & Inventory also dictates the timing of the reductions. Product and Merchandise Manager and Managing Director of Purchasing at

LSAG, Josef-Bernd Oswald says, “Thanks to Centric’s AI automation tools, the markdowns happen sooner and in smaller increments.”

Other areas that Centric Pricing & Inventory tackles are business processes, inventory and replenishment.

Mi Hub has Selected CGS's BlueCherry End-to-End Platform to Transform the Company's Global Supply Chain

6 March 2024

CGS, a global provider of software and business applications, enterprise learning, and outsourcing services, announced that Mi Hub, a global workwear solutions company, supplying businesses and individuals, through its Dimensions, Affinity, Yaffy and Alexandra brands in the UK, has selected CGS’s award-winning, industry leading BlueCherry® Enterprise Supply Chain Platform. Mi Hub chose BlueCherry after an extensive evaluation along with seeing BlueCherry in action in one of its North America-based subsidiary companies.

“We see BlueCherry as the seamless platform that will provide us with a global view of our entire supply chain ecosystem, in real-time – giving us full visibility for all divisions and countries,” said Andrzej Ostrowski, Chief Financial Officer for Mi Hub. “With over three decades of expertise, we trust that the CGS team will drive us to success by streamlining our processes and ultimately providing us with the tools we need to continue to grow our business.”

Today’s market challenges manufacturers and brands to create, source, and deliver products that meet ever more demanding customer requirements. Brands need to deliver the highest quality goods and services quickly and sustainably, and more than ever, production time must be fast and cost-effective. BlueCherry is designed to help brands overcome operational complexity. With real-time enterprise visibility, Mi Hub will have greater control of their supply chain, improve strategic decision-making, and continue to streamline the delivery of products through all sales channels.

“BlueCherry is the leading enterprise suite uniquely designed for the fashion and apparel retail sector. This focused approach makes it possible for brands to meet their requirements, and get up and running quickly and effectively,” said Paul Magel, President, Business Applications and Technology Outsourcing Division, CGS. “We are confident that Mi Hub will improve and grow their business using BlueCherry and we are proud to welcome them into our customer fold.”

Michelin North America, Inc. Selects Cosmo Tech for Supply Chain Simulation

27 February 2024

Cosmo Tech announces it has been selected by Michelin North America, Inc. to help improve its supply chain simulation and optimize operations.

The overall aim of bringing onboard Cosmo Tech’s solution is to help supply chain and marketing managers anticipate the impact of variable demand and predict the future state of Michelin’s complex supply chain, with the objective of improving supply chain agility and efficiency.

“At Michelin, we aim to deliver superior service to our customers. We have invested in innovation at the service of customers since our founding 135 years ago,” said **George Kurian**, VP of Supply Chain and logistics at Michelin North America, Inc. “By partnering with experts in AI and Supply Chain Simulation like Cosmo Tech, we’re able to accelerate our transformation, adopting a more agile approach in our supply chain and business.”

Founded in 2010, Cosmo Tech is a software company renowned for its expertise in AI simulation and enterprise digital twins. Its platform brings predictive and prescriptive capabilities to support both enterprise decision making and business optimization.

“Having previously accompanied Michelin on the improvement of its supply chain to increase cost efficiency and reduce carbon footprint, we are proud to expand this relationship with our latest AI-Simulation technology in North America to support Michelin’s supply chain scenario planning and adapt with agility to variations in demand in an increasingly complex and uncertain environment,” said **Hugues de Bantel**, co-founder and CEO of Cosmo Tech.

Michel Morvan, co-founder and Executive Chairman of Cosmo Tech also added, “The capability to accurately predict the impact of changes in a complex supply chain and test thousands of scenarios to ensure an optimal response is game-changing for enterprise organizations. We are looking forward to seeing the positive impact our AI-simulation platform will have on a supply chain as far reaching as Michelin North America’s.”

Michelin North America’s operations span 34 production plants in two countries and count more than 23,000 employees. With annual sales in excess of \$8 billion, the company is a leader in mobility, sustainability, and distributing the most innovative tires, services and solutions for its customers’ needs.

National Composites Centre (NCC) UK Partner with Plataine to Drive AI & IoT based Innovation

1 March 2024

The National Composites Centre (NCC), a world leading research and development facility that provides access to state-of-the-art engineering capabilities and technology, has announced the next step in its partnership with Plataine, a leading provider of AI-based optimization solutions for advanced manufacturing. This collaboration marks a significant milestone in the NCC’s commitment to enhancing the efficiency and sustainability of composite material management through digital transformation.

Established as the UK’s centre of excellence for composites research and development, the NCC’s mission is to spearhead collaborative innovation and evaluation of cutting-edge composites and integrated digital technology to deliver positive impact on the UK industry.

Plataine’s Time-Sensitive Material Manager (TSMM), combined with RFID sensors, offers a comprehensive solution to help achieve the NCC’s goals. Plataine enables real-time tracking of materials from the receiving step throughout the entire production process, ensuring optimal in-factory management and reporting of time-sensitive materials while minimizing material expiration and scrap. RFID antennas pick up signals from tagged composite material items and

automatically update their status and location. When fully integrated with other NCC systems, the solution has the potential to fully digitize material management and tracking, employing AI based approaches to optimize selection for jobs based on properties, status and quality of material data to further reduce errors and waste, and enhance sustainability levels. In addition, real-time visibility of material location and status leads to efficient inventory management, enhanced quality control and compliance with the aerospace composites industry standards.

Looking forward, consistent monitoring and management of an asset or material across its entire lifecycle and across supply chains is critical for making optimal circularity decisions and performing life cycle analysis, a focus of the NCC's combined digital and sustainability service. Plataine's Digital Thread technology uses cloud-based technology that enables manufacturers to log the complete genealogy of a product, stretching across multiple sites and organizations, from raw material to finished part and could be a part of this developing system.

Marc Funnell, Head of Digital Engineering Technologies at the NCC, expressed enthusiasm about the partnership: "As one of our flagship digital transformation projects, our new time sensitive material tracking will enable us to produce parts more efficiently and with reduced material waste, while still upholding the highest quality standards. Our growing partnership with Plataine allows us to showcase and leverage expanding IOT, data science and AI technology, further developing the NCC's commitment to be a digital exemplar and learning factory for the industry."

Avner Ben-Bassat, President and CEO of Plataine said: "As we embark on this new phase of our partnership with NCC, we're excited by the opportunity of playing a pivotal role in enhancing the sustainability and innovation of the NCC's operations. Our collaboration aims to propel the NCC into the forefront of digitalization and automation within their manufacturing processes. By integrating our AI-driven solutions, we're committed to significantly reducing material waste, thereby making a substantial positive impact on the environment. This venture is more than just a collaboration; it's a commitment from Plataine to elevate the NCC to the status of a state-of-the-art standard for the entire UK industry. Through this long-term partnership, we aspire to showcase the imperative value of advanced technologies in making industries more efficient, responsible, and sustainable."

Plataine is exhibiting at JECWORLD 2024, March 5-7, Hall 5, Booth P74. Stop by our booth to learn how to increase sustainability and efficiency with AI solutions at your factory.

NCC is exhibiting at Hall 6, Booth T62.

nepes corporation expands IC packaging capabilities for the 3D-IC era with advanced design flows from Siemens

7 March 2024

Siemens Digital Industries Software announced that South Korea-based nepes corporation, a global leader in Outsourced Semiconductor Assembly and Test (OSAT) services, has leveraged a range of industry-leading solutions from Siemens EDA to tackle the broad range of complex

thermal, mechanical, and other IC packaging design challenges associated with developing advanced 3D-IC packages.

“nepes is committed to providing us with the most comprehensive portfolio of semiconductor packaging design and manufacturing services, to help us innovate and succeed in a market where high performance and compact form factors are critical.” said Brad Seo, vice president of SAPEON Korea’s R&D center. “By expanding nepes’ adoption and usage of Siemens’ EDA technologies for advanced packaging, we also can achieve the innovative technologies necessary to grow.”

nepes has an established track record of providing customers with world-class packaging, testing, and semiconductor assembly services for clients throughout the global electronics industry. nepes also offers packaging design services including wafer level packaging, fan-out wafer level packages, and panel level packaging.

Building on this foundation, nepes is now driving additional packaging innovation with a broad range of advanced technologies from Siemens EDA, including the Calibre® nmPlatform, which includes Calibre® 3DSTACK software, HyperLynx™ software for electrical rule checking, as well as Siemens’ industry-leading Xpedition™ Substrate Integrator software and Xpedition™ Package Designer software. Together, these Siemens technologies helped nepes provide fast and reliable design services including 2.5D/3D-based chiplet designs for the company’s growing base of global IC customers.

“Siemens is committed to delivering industry-leading semiconductor packaging technologies to supply chain partners such as nepes, which helps enable them to achieve their digitalization goals,” said AJ Incorvaia, senior vice president of Electronic Board Systems at Siemens Digital Industries Software. “As an existing partner and supplier to nepes we are pleased to extend this relationship for the advantage of our mutual customers.”

Oracle Red Bull Racing, Ansys Go the Distance with Renewed Partnership

29 February 2024

Oracle Red Bull Racing renewed its partnership with Ansys for three years to remain the most competitive Formula 1 (F1) team in the world. Oracle Red Bull Racing will continue harnessing the power of Ansys technology to improve aerodynamics, manage material data, and ensure structural safety of its cars in the 2024 season and beyond.

Ansys simulation solutions helped Oracle Red Bull Racing driver Max Verstappen make history in 2023, winning 21 out of 22 races and leading 1003 laps. He secured the Drivers’ and Constructors’ Championships with a massive 413-point margin, leading Oracle Red Bull Racing’s team to the most dominant season yet.

Oracle Red Bull Racing faced new challenges as it prepared for the 2024 season due to spending caps and wind tunnel testing time limits. Because they topped the championship last year, the team was allotted 4200 hours of testing — 300 hours less than the second-place team — for car upgrades throughout the season or to develop next year’s car. To maximize testing, Oracle Red Bull Racing relies on the predictive accuracy and speed of Ansys Fluent™ to achieve the optimal

downforce and car aerodynamics, which are key considerations for difficult cornering on circuits like Monaco, where it triumphed in 2022 and 2023.

The endurance of Oracle Red Bull Racing will also be tested in 2024, which is set to be the longest season in Formula 1 history. The additional races demand a more reliable car. To achieve this, the team uses Ansys Granta MI™ to manage material data and study how different materials performed in previous seasons to enhance the car's shape and design. They also use Ansys LS-DYNA™ to conduct impact testing and assess the car's safety.

"Ansys simulation software helped Oracle Red Bull Racing quickly adapt to the new F1 design guidelines last year and positioned us to maintain our technical leadership in a dramatically altered engineering landscape," said Craig Skinner, chief designer, at Oracle Red Bull Racing. "To stay ahead of the curve, we need tools that adapt to changing regulations. Ansys is flexible and keeps pace with industry needs, and we are looking forward to continuing our partnership and utilizing enhanced offerings like Ansys Granta MI AI+™, which will boost our material insights and help us develop the fastest and most reliable cars possible."

The 2024 season begins on February 29th at the Bahrain Grand Prix and will feature Oracle Red Bull Racing's newest car, RB20.

"Ansys and Oracle Red Bull Racing demonstrate year after year that a combined commitment to engineering excellence translates to the racetrack," said Shane Emswiler, senior vice president of products at Ansys. "Developing the RB20 in such a short time frame is a testament to the high fidelity and speed of Ansys simulation solutions. We look forward to seeing the car in action for another fantastic season."

Pharmarack Revolutionizes Healthcare Network of India with Informatica's AI-Powered Data Management Cloud Platform

5 March 2024

Informatica, an enterprise cloud data management leader, announced that Pharmarack, India's largest commerce-to-insights technology company, has selected Informatica's intelligent Master Data Management (MDM) on Amazon Web Services (AWS). This Software-as-a-Service (SaaS) offering is part of Informatica's AI-powered Intelligent Data Management Cloud (IDMC) and aims to support Pharmarack in its mission to digitize the pharma ecosystem in India and significantly improve the ease of transactions between stockists, chemists and pharmaceutical companies across India.

Pharmarack is a pioneering commerce-to-insights technology company addressing core trade challenges encountered by the Indian pharmaceutical industry. Acting as a catalyst, Pharmarack empowers general pharmaceutical trade with a national reach of more than 250,000 chemists and druggists and over 12,000 distributors and stockists trading in more than 300,000 SKUs across six thousand brands. One of the fundamental trade challenges in a marketplace is the consistency of the data catalog throughout the value chain, a problem that Pharmarack aims to resolve using Informatica's intelligent MDM.

Arundhati Kshirsagar, Chief Data & Analytics Officer at Pharmarack, commented, "Informatica's intelligent MDM enables us to address an industry problem related to catalog quality in both online and offline marketplaces. With more than 240 million combinations of listings from over 12,000 sellers, we aim to standardize and enhance consistency across more than 300,000 SKUs, thus improving efficiency throughout the value chain and significantly enhancing the experiences of our stakeholders, including chemists, stockists and pharmaceutical companies."

"With Informatica, we can be assured of a high-quality, consistent master data catalog democratized across all levels and throughout the entire value chain, empowering small and medium business users and reducing time-to-market. This helps address the issue of spurious medicines and ensures the availability of quality medicines to consumers throughout the country," Kshirsagar added.

Resolving data catalog inconsistency and achieving a single golden record when trying to merge more than 12,000 unique independent catalogs is a significant challenge if done manually. With Informatica's intelligent MDM, Pharmarack aims to tackle this problem for an entire industry offering small and medium businesses in India with catalog quality comparable to that of giant e-commerce players. This solution could be used by more than a million chemists and stockists, enabling them to harness the potential of digital technology without concerns about catalog consistency. This is expected to significantly improve the availability of medicines, reduce expiry and enhance efficiency in the Indian pharmaceutical value chain.

"Informatica is pleased to work with Pharmarack in addressing their catalog challenges by providing our market-leading intelligent MDM solution powered by our metadata AI-driven IDMC platform, to resolve issues related to inconsistent, incomplete and inaccurate data, while enabling a 360-degree view of trusted data for users to perform their tasks more effectively," said Steven Seah, Informatica Managing Director, ASEAN, India, and Korea. "The cloud-native, all-in-one solution, along with the low-code/no-code experience and AI-powered automation of our IDMC platform, will enable Pharmarack to streamline their data management environment and scale rapidly, empowering them to unlock valuable data insights and create value for India's healthcare ecosystem."

Plex Marks the Spot: Tasti's Recipe for Success in Smart Manufacturing

6 March 2024

Rockwell Automation, the world's largest company dedicated to industrial automation and digital transformation, has announced that snack bar and wholefood ball manufacturer Tasti Products Limited has chosen Plex, by Rockwell Automation as its new integrated smart manufacturing and business process solution.

Tasti Products will migrate to Plex's cloud-based solutions, implementing Plex ERP (Enterprise Resource Planning), including Plex's world-class MES (Manufacturing Execution System), to drive their New Zealand-based operations.

Recognising their legacy ERP system could no longer support an expanding business, Tasti Products searched a smart manufacturing solution that would allow the company to scale in size and improve the speed in which business analytics could be performed. Tasti sought a

manufacturing solution that was cloud-based and could offer end-to-end digital transformation.

With the ability to offer world-class food safety and its established presence in the food and beverage industry, Plex will provide Tasti Products with a connected plant floor, digital product tracking capabilities, and real-time data to support the company as it continues to grow and flourish.

“Tasti Products is in a period of healthy growth in New Zealand, as well as its exports to Australia and the USA and we need digital technology that will set us up for future success. Plex gives us the automation integration, mobile connectivity, modular solutions, and scalability that we need as we continue to expand,” said Josette Prince, Managing Director, Tasti.

“As a cloud-based platform, Plex enables future-focussed food and beverage manufacturers like Tasti to achieve real-time integration, high levels of availability and flexibility, cybersecurity, and scalability,” says Rockwell Automation New Zealand enterprise sales executive, Plex, Michael Cahill.

“Food and beverage manufacturers can – and often do – use different platforms for monitoring, tracing, and tracking, but with the Plex Smart Manufacturing Platform, all three work in harmony to provide real-time data, which can be used for genealogy reporting, recalls, audits, and analytical insights,” added Cahill.

The Plex implementation marks a new era for Tasti Products, as the Plex Manufacturing Excellence System digitises facility operations and offers much-needed structural support for the company’s exciting and vibrant growth.

PROG Holdings and Infosys Forge Strategic Collaboration to Bring AI-Powered Experiences to Customers and Intelligent Automation to Operations

1 March 2024

PROG Holdings, Inc., the fintech holding company for Progressive Leasing, Vive Financial, Four Technologies, and Build, and Infosys, a global leader in next-generation digital services and consulting, announced an agreement that is expected to evolve and scale PROG Holdings’ technology operations as an integral part of the Company’s ongoing cloud- and AI-focused technology modernization and innovation efforts.

The collaboration will enable PROG Holdings to take advantage of Infosys’ digital services, including cutting-edge technologies, which PROG Holdings believes will help it realize operational efficiencies, accelerate technology enhancements, and improve speed to market. The relationship is also expected to enhance and innovate key PROG Holdings’ customer- and partner-facing technologies and systems, helping to widen its leadership gap within the virtual lease-to-own market.

PROG Holdings selected Infosys to assist on its technology evolution and efficiency efforts, including AI initiatives, due to Infosys’ ability to provide global access to top talent and technology infrastructure that supports and augments the innovation and efforts of PROG Holding’s internal technology teams.

Steve Michaels, President and CEO of PROG Holdings, said, "We look forward to working with Infosys to develop and enhance key systems that positively impact the speed to market, agility, and scalability of key PROG Holdings technologies and platforms. We expect our collaboration with Infosys will reduce friction for both our customers and retail partners, further solidifying PROG Holdings' position atop the virtual lease-to-own industry we helped create twenty-five years ago."

Dennis Gada, Executive Vice President and Global Head of Banking & Financial Services at Infosys, said, "We are excited to bring robust domain knowledge along with transformative AI capabilities using Infosys AI solutions like Infosys Topaz and a cloud-first digital foundation to help PROG Holdings increase market share of the virtual lease-to-own market. Our collaboration will focus on accelerating the development and deployment of technologies that offer operational excellence, agile innovation, and improved services for new and existing retail partners and customers."

RELEX Solutions and Accenture to Help Lowe's Enhance Inventory Planning

7 March 2024

RELEX Solutions, provider of unified supply chain and retail planning solutions, and Accenture are working with Lowe's Companies, Inc., to support its seasonal inventory planning. This collaboration will bring together delivery, advisory, and industry experience from Accenture, with the RELEX AI-driven technology.

"Our selection of RELEX was driven by their proven expertise in the home improvement retail sector. We were particularly impressed by their advanced, AI-driven approach and the flexibility of their inventory management systems," said Camille Fratanduono, Senior Vice President of Inventory, Replenishment and Planning at Lowe's. "RELEX is well-known for their automation capabilities and exceptional dashboard. Working with both RELEX and Accenture aligns with our ongoing commitment to leveraging innovative solutions to enhance our business processes."

RELEX Senior Vice President for North America, Keith Adams, commented, "This collaboration marks a milestone in the RELEX journey and the start of our strategic partnership with Accenture. Our deep experience in the home improvement retail sector proves how our AI-driven solutions are designed to cater to the unique demands of large-scale retail operations, in order to ensure optimal inventory levels and improve customer satisfaction. This announcement reflects our commitment to delivering top-tier solutions and supports our vision of becoming the go-to provider for inventory optimization in diverse retail settings."

Jill Standish, global lead of Accenture's Retail industry practice, said: "Agile, digital supply chain networks can drive growth and profitability in challenging times of ongoing disruption. Together with RELEX, we are helping companies like Lowe's on a journey to improve operational agility and responsiveness to meet customer expectations."

Riyadh Air and IBM Take Further Steps Forward in their Collaboration to Redefine Travel Experiences

6 March 2024

IBM announced the next steps in their collaboration with Riyadh Air, the digital-native airline currently scheduled to commence operations in early 2025, to revolutionize the airline's travel experiences. The airline plans to introduce next-generation, channel-fluid guest and traveler interactions, tapping into IBM Consulting's open ecosystem of business partners and deep industry expertise spanning strategy, experience design, technology and operations.

IBM hosted a signing ceremony, announcing the collaboration at the 3rd edition of LEAP 2024, the international technology conference held annually in the Kingdom of Saudi Arabia; in the presence of Tony Douglas (Chief Executive Officer, Riyadh Air) and Arvind Krishna (Chairman and Chief Executive Officer, IBM) and executive management from both entities.

"We're on a mission to shape the future of air travel at Riyadh Air," said Tony Douglas, CEO at Riyadh Air. "By teaming up with IBM, we're pushing the boundaries of innovation to create a transformed passenger experience that is more seamless, personalized and sustainable. From AI-powered check-in systems to immersive in-flight entertainment, we're leveraging the latest technologies to make air travel more enjoyable and accessible for everyone."

Committed to delivering unique, intelligent and hyper-personalized guest journeys, Riyadh Air will harness IBM Consulting's expertise across generative AI, experience orchestration, marketing and customer engagement platforms, mobile, web and in-flight applications. All of these capabilities will be accelerated through the proven, collaborative engagement model of IBM Garage, to help craft guest experiences that are culturally enriching across the travel journey, on ground or in the air.

"We're excited to extend our collaboration with Riyadh Air, working together to revolutionize the way people experience travel," said Arvind Krishna, Chairman and CEO at IBM. "We will combine user-friendly design, cutting-edge technology, and a shared commitment to innovation in order to create a seamless, enjoyable, and unforgettable travel experience for passengers."

IBM consultants will utilize IBM Consulting Advantage and its capabilities including IBM Consulting Assistants, which are powered by IBM watsonx, and IBM iX Experience Orchestrator to help Riyadh Air to build and enhance their digital guest experience across mobile, web, and in-flight entertainment. IBM Consulting will also help streamline end-to-end customer experiences across digital channels, using a comprehensive technology portfolio. This work will be based on Adobe Experience Cloud and Adobe Experience Platform, spanning Adobe's marketing and customer data solutions, digital experience orchestration, digital media activation and campaigns across web, mobile and social. Further, IBM Consulting aims to build for Riyadh Air a curated suite of apps for managing airline operations, empowering their employees to serve guests with ease and speed.

Saudi Arabia's ambitious aviation and tourism plan aims to serve 330 million air passengers by 2030, increasing air cargo capacity to 4.5 million tons, and expanding air connectivity to more than 250 destinations. Riyadh Air, launched in March 2023, is planning for its inaugural flight in early 2025 and aiming to connect passengers to over 100 global destinations by 2030.

This announcement builds upon Riyadh Air's ongoing collaboration with IBM Consulting, establishing the technology foundation for the digitally-led airline. The airline had previously unveiled its collaboration with IBM Consulting in November 2023 to develop mission-critical technology and business capabilities, supporting the journey to its first flight.

Rockwell Automation Announces Strategic Collaboration with Prometeon Tyre Group to Transform Global Manufacturing Processes

28 February 2024

Rockwell Automation, Inc, the world's largest company dedicated to industrial automation and digital transformation, announced a multi-year collaboration with Prometeon Tyre Group, a leading industrial tire manufacturer headquartered in Italy.

The goal of this program, spanning facilities in Italy, Türkiye, Egypt, and Brazil, is to enhance Prometeon Tyre Group's digitalization strategy, elevating manufacturing efficiency, sustainability and technological advancement.

Under the terms of the agreement, Rockwell Automation will implement its Manufacturing Execution System (MES), enabling comprehensive digital integration across all Prometeon Tyre Group's global facilities.

The project aims to replace the current systems and create a standardized, technologically advanced environment. Anticipated benefits include:

- Enhanced operational efficiency
- Improved labor utilization
- Increased productivity and effectiveness
- Reduced cost of quality and compliance

Rockwell Automation's MES platform is enriched with industry-specific templates and leveraging the core of FactoryTalk® ProductionCentre®. The solution also includes the best-in-class IIoT capabilities of PTC ThingWorx and Plex Quality Management System (QMS).

This provides customers with a comprehensive production operations management solution, allowing seamless connection to enterprise platforms. This approach entails a shift in operational dynamics, moving towards a more streamlined connected system for global sites, enabling more efficient production scheduling, more predictable quality delivery, and seamless automation integration.

Sustainability is also a key focus, with both companies committed to improving operational efficiency and reducing environmental impact.

“Drawing from our experience of working with other international tire brands, we can provide a holistic, flexible approach to digital transformation in the tire industry,” said Dan Paul, global business director, tire industry, Rockwell Automation. “Together with Prometeon Tyre Group we have arrived at digital solutions that are designed to be both standardized and maintainable across Prometeon Tyre Group’s diverse global operations.”

Samsung C&T Fashion Group Turns Digitalization Strategy into Reality with Centric PLM

7 March 2024

Centric Software® is pleased to announce that Samsung C&T Fashion Group, South Korea’s leading fashion company, has selected Centric PLM™ to digitalize business operations across its brands. Centric Software provides the most innovative enterprise solutions to plan, design, develop, source, buy, make, price, allocate, sell and replenish products such as fashion, outdoor, luxury, multi-category retail, grocery, food & beverage, cosmetics & personal care and consumer electronics to achieve strategic and operational digital transformation goals.

Founded in 1954, Samsung C&T Fashion Group has grown to become a leading worldwide player, offering a wide range of fashion and lifestyle products. The group owns and designs products for its in-house brands, including BEANPOLE, GALAXY and EIGHT SECONDS, and distributes global brands such as MAISON KITSUNÉ, ISSEY MIYAKE and TORY BURCH. Samsung C&T Fashion Group operates over 1,200 stores in South Korea and has global branches in Milano, New York, Shanghai, Hanoi and Tokyo. The company prides itself on its brand-building capabilities, digital transformation, global expansion, quality and retail expertise.

Samsung C&T Fashion Group’s strategy for 2024 is to digitalize and standardize product go to market workflows across its brands, as well as discover and develop new brands for external growth and increased profitability.

SangWook Ahn, Vice-President of Business Administration Division, Samsung C&T Fashion Group, explains their goals and challenges, “We envision a solid, standardized process for product development, and rely less on manual tools and use of multiple systems. Due to the lack of visibility in the product development stage, errors and miscommunication sometimes get carried over to the mass production stage, which is very inefficient. Having information in just one digital location is crucial to ensure product data is accurate and updated in real-time.”

To achieve their goals, and to strengthen communication, increase visibility and boost efficiency, Samsung C&T Fashion Group researched Product Lifecycle Management (PLM) solutions. Centric stood out due to having a local team, reliable technical support and a proven track record with customers in the South Korean fashion and apparel industry.

“We found Centric PLM to be more user-friendly than other PLM solutions. The ability to integrate with 3D software is particularly useful for streamlining workflows and processes. We are also excited about the possibility of integrating and implementing other Centric solutions such as Centric Planning™ and Centric Pricing & Inventory™ in the future,” adds Ahn.

Samsung C&T Fashion Group will utilize Centric PLM for product planning, merchandising, design, pattern development and sourcing, bringing all divisions together on a single platform.

“By digitalizing and standardizing work processes across teams and brands, we anticipate increased productivity, reduced costs and ultimately enhanced product competitiveness,” says Ahn. “Scheduling merchandising plans through Centric PLM will provide a clear view of tasks and timelines.”

“We are delighted to welcome Samsung C&T Fashion Group on board,” says Chris Groves, CEO of Centric Software. “With Centric PLM as the foundation for their overall product development process, we look forward to seeing Samsung C&T Fashion Group optimize efficiency across all brands and empower the business to continue its growth globally.”

Sandvik wins major mining automation order from Codelco

1 March 2024

Sandvik has received a major order from Codelco, the world’s largest copper producer, to supply a AutoMine® load and haul automation system, for use in the new Andesita project at the El Teniente mine in Chile. The order is valued at approximately SEK 300 million and was booked in the first quarter 2024.

Under the new contract, which follows multiple automation solutions orders from Codelco in 2023, Sandvik will implement an advanced automation system and deliver a new automated Toro™ LH621i loader during 2024.

“We are very pleased to expand our partnership with Codelco and look forward to provide our leading mining automation solutions to the new Andesita project, enhancing safety, efficiency and productivity in the operations,” says Mats Eriksson, President of Sandvik Mining and Rock Solutions.

Simulations Plus and the University of Bath Awarded New FDA Grant

5 March 2024

Simulations Plus, Inc., a leading provider of modeling and simulation solutions for the pharmaceutical, biotechnology, chemicals, and consumer goods industries, announced that, through a joint proposal with the University of Bath’s Department of Life Sciences and other university partners, it has been awarded a new funded grant from the U.S. Food and Drug Administration (FDA). The grant will be used to expand and validate a multi-functional, multi-purpose physiologically based biopharmaceutics/pharmacokinetics (PBBM/PBPK) modeling solution for topical products within the GastroPlus® platform that can inform regulatory decisions for both innovator and generic products.

For this award, the Skin Biosciences group at the University of Bath led by M. Begoña Delgado-Charro, Professor in Biopharmaceutics, and Professor Richard Guy, and partners at the Colorado School of Mines (Professor Annette Bunge) and the University of Reading (Professor Adrian Williams) will generate *in vitro* data from a series of studies to capture the processes that occur when patients use topical formulations which transform when applied and rubbed

into the skin. The scientific team at Simulations Plus will utilize these novel data sets, along with additional pathophysiology information for skin disease populations, to enhance and validate the Transdermal Compartmental Absorption and Transit (TCAT™) model within GastroPlus and determine the impact of changes to relevant quality attributes which impact the predictions of dermal absorption. The resulting outcome will provide the foundation of a viable alternative to *in vivo* studies for the establishment of bioequivalence (BE) for topical products.

“Collaborating with the University of Bath and other partners on this groundbreaking FDA grant is a remarkable opportunity. Our joint efforts are set to deliver an advanced, rigorously validated, and mechanistic dermal PBBM/PBPK model that leverages novel *in vitro* experimental designs,” said Dr. Maxime Le Merdy, Associate Director, Research & Collaborations of PBPK Solutions, and lead investigator for this grant for Simulations Plus. “This innovation promises to revolutionize the prediction accuracy of topical drug product performance. By doing so, we aim to significantly expedite the regulatory decision-making process, ultimately benefiting patients and the pharmaceutical industry.”

FDA scientific and program staff will actively collaborate with the University of Bath, Colorado School of Mines, University of Reading, and Simulations Plus. Dr. Le Merdy, with assistance from Dr. Jessica Spires and Dr. Jasmina Novakovic at Simulations Plus, will coordinate modeling and simulation activities of the contract.

“By combining our expertise with Simulations Plus’ cutting-edge research, we are charting a course towards more efficient drug development and safer healthcare solutions. The project will be a great way for both industry and academia to make that leap from research into real life applications, with potential benefits of tangible patient outcomes,” added Dr. Delgado-Charro. “Our primary objective is to enable the creation of innovative models that bridge the divide between *in vitro* and *in vivo* data. The comprehensive framework and best practices established through this contract will hold significant value for both the FDA and the companies involved in developing topical formulations.”

Funding for this collaboration is made possible by the Food and Drug Administration through grant award 1U01FD007957-01. Views expressed in this press release do not necessarily reflect the official policies of the Department of Health and Human Services; nor does any mention of trade names, commercial practices, or organization imply endorsement by the United States Government.

The Atos, Open and Sopra Steria Consortium selected by UGAP to support the digital transformation of public services

6 March 2024

The digital services companies Atos, Open and Sopra Steria, in a Consortium headed by Atos, announce that they have been selected by the Union des Groupements d’Achats Publics (UGAP) to supply project management assistance (AMOE) and third-party application maintenance (TMA) services, in response to **UGAP’s new IT Intellectual Services (PII) contract**.

The Consortium, whose previous co-owners were Atos and Open, has been strengthened by the addition of Sopra Steria and is based on strong business and technological expertise as well as extensive national coverage which includes French overseas territories. The Consortium's UGAP Central Unit embodies the joint governance set-up by Atos, Open and Sopra Steria in order to guarantee the proper execution of services, capitalize on knowledge and maximize responsiveness.

UGAP's customers – local authorities, health stakeholders, public institutions, ministries, funds and companies including private establishments with a public mission – can rely on the Group for the implementation of application development and maintenance services covered by the contract.

The services offered by the Consortium are designed to meet the **diverse needs** of public service organizations, taking into consideration the **maturity** and **strategic priorities of each**. It meets the **modernization and digital transformation objectives** of public stakeholders whose public service mission includes supporting **environmental and societal transitions**.

New digital sustainability services are also being offered, such as quantifying the environmental impact of a project, implementing CSR indicators, or the analysis and improvement of existing application assets by measuring the carbon footprint of the applications developed and maintained.

The complementary skills and production resources of the three co-contractors enable them to deliver the same quality of local service to all major clients and small local authorities throughout France. The Consortium employs more than **20,000 experts** in integration, digital transformation and application maintenance, operating from **more than 100 industrialized shared service centers** with high levels of automation and consistent project execution, complemented by a **network of regional agencies**.

The Consortium has established a unique partnership ecosystem of around 220 subcontractor companies, including more than 180 very small enterprises (VSEs), small and medium enterprises (SMEs) and startups. This regional digital network for public customers is completed by the expert know-how concentrated in 10 Atos **Inno'Labs**, facilities dedicated to co-innovation in partnership with universities and national research centers.

“UGAP embodies responsible public procurement. By pooling our expertise and means of production, we have jointly developed a range of services that reflects this commitment. No matter what the business and digital transformation objectives of UGAP's customers are, our priority is to demonstrate the operational performance of this market through the quality of service provided, reinforcing UGAP's strategic role in digitalizing France's territories” said **Raoul Roth, CEO, Atos France, Frédéric Sebag, President, Open and Grégory Wintrebert, CEO, Sopra Steria France**.

Product News

Accenture Launches Accenture LearnVantage to Help Clients and Their People Gain Essential Skills and Achieve Greater Business Value in the AI Economy

5 March 2024

Accenture announced the launch of Accenture LearnVantage to provide its clients with comprehensive technology learning and training services that will help them reskill and upskill their people in technology, data and AI to reinvent their organizations and achieve greater business value. The new service is designed to help leaders across industries and governments quickly identify gaps in relevant skills being created by advances in technologies and then provide the industry-specific training needed to fill those gaps at speed and scale. This includes delivering highly personalized learning experiences for a wide range of technical and business users, from specialized AI and data science, cloud and cyber security training for IT professionals to Gen AI training for board and C-suite members and business leaders.

The company will invest \$1 billion in Accenture LearnVantage over three years and has agreed to acquire Udacity to build on and scale for clients Accenture's deep experience in learning and training and meet rising demand for technology skills, including generative AI. According to Accenture research, business leaders say their No. 1 challenge is their inability to upskill their workforces, with 51% of organizations starting to see negative impacts from worsening IT skills shortages. In addition, 94% of workers say they want to learn new skills to work with generative AI, but only 5% of organizations provide gen AI training at scale.

"We are passionate about helping our clients become 'talent creators'—with people at the center of their reinvention using technology, data and AI—and a critical part of that is investing in industry-specific training and technology skills development," said Julie Sweet, chair and CEO, Accenture. "We are scaling Accenture's deep capabilities as a world-class learning organization to help our clients meet their business growth objectives and enable their people to develop the relevant skills they need to make the most of the opportunities that technological change is bringing."

Accenture has helped many enterprises upskill their workforces for business reinvention, including biopharmaceutical company Merck, known as MSD outside of the United States and Canada.

"Digital, data, analytics and AI are touching every part of what we do as a company as technology plays a pivotal role in discovering, developing, manufacturing, and providing access for patients to medicines and vaccines," said Dave Williams, executive vice president, chief information and digital officer, Merck. "To continue delivering on our promise to use the power of leading-edge science to save and improve lives around the world, we are developing and investing in our people. We have launched a groundbreaking generative AI training program for our employees in partnership with Accenture to create world-class digital leaders."

Accenture invests more than \$1 billion per year in a wide range of learning and training for its more than 700,000 people, delivering approximately 40 million training hours annually. For

example, training is helping Accenture achieve its goals to double its deeply skilled Data & AI practice professionals to 80,000, and the company is rolling out training for 250,000 technology professionals by the end of fiscal 2024. Accenture has already trained more than 600,000 of its people in the fundamentals of AI.

Accenture has invested to create an AI-native learning platform that seamlessly integrates with an organization's existing learning platforms. With the help of an AI recommendation engine, the platform curates the best learning content from Accenture and third-party providers to offer a personalized learning journey that aligns with priority areas of learning.

Accenture LearnVantage will offer tailored technology learning programs; specialized, predesigned technology academies; ecosystem learning certification services; and managed services for a client's own learning capabilities. LearnVantage also will offer nanodegrees, certified online programs designed to provide users with hands-on experience and industry-relevant skills in specialized fields.

The acquisition of Udacity will bring to Accenture the company's capabilities in integrating proprietary content, expert services and scalable learning technology and aligns with Accenture's long-standing approach to learning through formal training, learning by doing and coaching by experts. Udacity provides localized course offerings in multiple languages, including English, Arabic, Korean and Spanish. Udacity's more than 230 professionals will join the Accenture LearnVantage business. Accenture LearnVantage's full set of services will be available later this year following the closing of the acquisition.

Accenture LearnVantage will work with technology ecosystem partners, including Amazon Web Services, Google Cloud and Microsoft, to provide generative AI content, industry-relevant technology training and cloud certifications for their joint clients. It will also work with additional world-class learning partners, including Pluralsight, Coursera, Workera and Skillsoft.

"The rapid rise of generative AI has grown our clients' need for training and upskilling their people in cloud, data and AI as they build their digital core, which is essential for reinvention," said Kishore Durg, global lead of Accenture LearnVantage. "Accenture LearnVantage will help our clients not only advance their business goals but also help their people build the skills they will need for the next waves of technology change."

AGILOFT STRENGTHENS CONNECTIVITY OF DATA-FIRST AGREEMENT PLATFORM WITH NEW GOOGLE DOCS APP AND CUSTOM API CREATION PLATFORM

29 February 2024

Agiloft, the most trusted global leader in data-first contract lifecycle management (CLM), announced enhanced features for connectivity including a new Google Docs App and new custom API Platform that further enables the flow of contract data across thousands of business-critical systems so users can access the information they need, when they need it, in the tools they prefer. The new capabilities include:

- **Agiloft App for Google Docs** – enables users to utilize Agiloft's CLM functionality within widely-used Google Docs platform. The new Agiloft for Google Docs app enables users

to quickly and efficiently review their agreements in Google Docs, make redlines, and tag key terms and clauses with all document changes synced back to Agiloft.

- **API Platform** – further expanding Agiloft’s Integration Hub, the new API Platform provides non-technical users with an easy and intuitive way to build and manage custom APIs. The platform’s simple interface enables any authorized user to set up fresh integrations that have granular access control, adding to well over 1000 existing prebuilt enterprise integrations provided within the Integration Hub.
- **Tree View** – helps users to discover and compare related agreements at a glance. Tree View unravels complex relationships by visualizing them in a clear, intuitive branching tree structure. Helping improve governance, Tree View helps users quickly find related records and save valuable time and effort.

“In this release, we are continuing our mission of increasing connectivity and usability in the Agiloft platform,” said Andy Wishart, Chief Product Officer at Agiloft. “With our data-first approach, flowing contract data into and out of relevant applications is a critical functionality. Our new API Platform within the Integration Hub gives customers more control over their contract data than ever before, allowing more freedom to connect data the way that best suits their tech ecosystem and work streams. On the usability side, Tree View and the new Google Docs app empower users with more time savings, contract visibility, and options to manage contracts in the apps they most prefer.”

Today’s enhancements are now available to customers alongside Agiloft’s new generative AI redlining capability announced in January, which helps to streamline negotiations and empowers users to significantly increase the speed with which they’re able to redline, negotiate, and ultimately agree on contract terms.

On Agiloft’s GenAI strategy, Nikhil Gaur, Research Analyst & Project Associate at Spend Matters, says, “Agiloft continues to take a methodical approach to generative AI, adding features with real value, but doing so carefully and without overpromising. The redlining capability in particular will be useful as it allows customers to select key areas and more quickly arrive at mutually agreeable language.”

alwaysAI Brings Groundbreaking Vision AI Solutions to the Mining Industry

4 March 2024

alwaysAI, a leader in providing real-time insights through Vision AI, announces a suite of innovative solutions that will transform the mine-to-market value chain and dramatically improve productivity, safety, and profitability. alwaysAI Smart Mining solutions combine our revolutionary computer vision platform, including a new, comprehensive analytics dashboard, with the invaluable experience of our talented team of world-class engineers to deliver practical AI to mines.

As the global demand for metals grows, mining companies need to leverage advanced technologies to meet those demands through greater efficiency while enhancing employee safety and minimizing environmental impact. Because computer vision can detect people,

objects, and events in real-time, it is invaluable for mines with historically limited visibility into fundamental mining processes.

"Vision AI can help in every critical mining process from extraction to processing, inventory management and transportation, and delivery. AI technology like alwaysAI Smart Mining solutions enable operators to quickly deploy computer vision applications onto cameras to accurately measure and count ore extraction, monitor cage and large machine utilization, detect PPE, and address a wide variety of other applications that will have a dramatic impact on profitability," said Marty Beard, Co-Founder and CEO of alwaysAI.

alwaysAI is partnering with leading industrial groups, companies, and mining experts to bring the magic of Vision AI to operators quickly and effectively. This includes influential associations like the Instituto de Ingenieros de Minas del Perú and their collaboration with the Mining Innovation Hub at Perumin, representing mines like Antamina, Alpayana, and Buenaventura.

Carlos Diez Canseco, General Manager, Instituto de Ingenieros de Minas del Perú said, "The mine-to-market value chain is complex, and improvements must be highly data-driven. Artificial intelligence can transform mining operations by increasing productivity, improving safety, and helping mitigate environmental impacts. We are delighted to work with companies like alwaysAI and their Vision AI solutions to improve mining."

"Extracting valuable mineral concentrate from ore is a multifaceted process," said Gerardo Alvear Flores, a recognized expert in mining and metals processing. "From crushing and grinding to sizing and classification to separation, Vision AI will be a game-changer in processing metals materials from ore into a concentrated marketable product. With tight margins, even small gains in productivity can significantly impact profitability, as the benefits compound throughout the mine-to-market value chain."

"AI is a generational technology that will be especially important to the mining market as it continues to evolve. Finding more efficiency, productivity, and yield in existing mines is critical," said the CEO of a prominent mining and investment firm. "AI is the tool that will provide real-time insights from production to process to delivery and make mining more productive, profitable, and safer."

Aras Announces Strategic Enhancements to PLM Platform

5 March 2024

Aras, a leader in product lifecycle management (PLM) and digital thread solutions, announced today new enhancements for Aras Innovator®, its open and adaptable platform for deploying PLM and digital thread solutions. Built on a highly scalable product data platform, Aras Innovator offers a library of applications that can be rapidly deployed, configured, and extended with enterprise-class low-code development tools to meet the specific needs of any organization.

Today's announcements include:

New Digital Thread Capabilities

Aras Innovator forms an extensible digital thread, serving as a data backbone for digital

engineering and the broader digital enterprise. New capabilities will support simplified user interactions for viewing, editing, and implementing changes on interrelated items. In addition, a new streamlined experience for configuring connections to a comprehensive range of authoring tools simplifies extending the digital thread to a broader set of enterprise applications.

Extended Low-Code Development Enhancements

Aras Innovator is the only PLM platform with a fully integrated low-code development environment. Leveraging a rich set of development and enterprise-class DevOps services, Aras subscribers can extend applications or develop their own to address the unique needs of their organization. These enhancements introduce new widgets and charts that simplify the user experience and navigation for analytics dashboards and reports embedded in Aras apps. In addition, advanced form design tools facilitate a more streamlined, modern user experience for applications built within Aras-powered applications and deployed within Aras' DevOps framework.

Powerful Visualization of Complex Assemblies

Aras' CAD-agnostic approach to 3D visualization has been built on the foundation of the digital thread, enabling users to leverage Dynamic Product Navigation to facilitate the exploration of product data in any representation. The introduction of Aras Advanced 3D enhances this capability, providing a scalable environment to visualize and interact with larger, more complex assemblies that often exceed the capacity of a single CAD session. It integrates a rich feature set to explore, analyze, and collaborate on 3D content, including capabilities such as:

- Advanced search and filter (name, markup, attribute, color selection, volume, etc.)
- Clash detection
- Analysis such as wall thickness, curvature, and neutral axis
- Advanced measurement and sectioning
- Geometry manipulation and illustration
- IP protection of 3D data

The projected availability for this enhancement is set for Q3 2024, with a preview webinar scheduled for April 25.

Optimized Connectivity and Collaboration with Suppliers

With this announcement, Aras is introducing a suite of supplier management solutions designed to enhance how organizations interact with their suppliers and business partners. These new applications facilitate secure, remote access to controlled subsets of digital thread and PLM information through configurable mobile-optimized web applications. These solutions streamline communication and data sharing to optimize supplier management business processes. Projected availability for Aras Supplier Management Solutions is in Q2 2024, with a preview webinar scheduled for March 26.

John Sperling, SVP of Product Management at Aras, said: "Aras continues to reimagine how teams collaborate across the digital thread for product lifecycle management. These new

capabilities further differentiate Aras Innovator as the digital thread and PLM solution for organizations that prioritize scalability, flexibility, and openness.”

Bricsys - Innovative leap in Product Design: Assisted Design for Assembly

1 March 2024

Through a collaboration between Bricsys® and Flanders Make, a 'design for assembly inspection tool' has been developed that makes it possible to test a product's suitability for production as early as the design phase.

Traditionally, engineers tested a product's suitability for production during the initial prototype phase, when they first physically assembled the product. This stage often resulted in the creation of several costly and time-consuming prototypes. Now, Bricsys sets a precedent by fully integrating the Assembly Inspect Tool into their BricsCAD® Mechanical software.

The Assembly Inspect Tool provides an in-depth evaluation of assembly capabilities not previously available in Mechanical CAD packages. This tool makes the "Aided" in Computer-Aided Design a reality: it supports the product design engineer in the design process, avoiding costly assembly design errors that often only come to light in the prototype phase.

Accessible for companies of all sizes

The Assembly Inspect Tool also enables small to medium-sized companies in the manufacturing industry to have these insights without the need for costly and specialized software.

The development of this technology came about through collaboration between Bricsys and Flanders Make, a strategic research center for the manufacturing industry. It results from a project in which Flanders Make and other mutually independent Flemish companies are developing new knowledge that can be practically applied, thus contributing to economic added value in Flanders.

Although researchers have not yet completed the study, they will use the coming year to gather valuable customer feedback to optimize the Assembly Inspect Tool further.

Canvas GFX Announces Release 5.3 of Envision with Software Development Kit to Help Manufacturers Integrate Work Instructions with Leading PLM Platforms

4 March 2024

Canvas GFX Inc., the leading provider of connected knowledge solutions for the manufacturing enterprise, announced release 5.3 of its flagship platform, Canvas® Envision®, at the 2024 Aras Community Event (ACE) in Fort Worth, Texas where product lifecycle management experts are meeting to explore the latest in PLM and Digital Thread innovation.

The Envision platform is used by manufacturing organizations to provide front-line workers with model-based work instructions for assembly, maintenance and repair, and training applications. With access to the latest design engineering and product information in a powerfully visual format, workers always have the information they need to do the job right, every time.

New Features

In release 5.3, the company is releasing an array of new features including:

Updates to its Software Development Kit, which can be used to offer embedded functionality within other applications, such as Aras Innovator PLM and SAIC ReadyOne. The company is showcasing integration within each of these platforms at the ACE event.

- Enhanced Document Management features, which provide powerful new ways to strengthen version control and drive new document workflows.
- Updated Markup & Review functionality, making it easier than ever for teams to collaborate – even remotely.
- Public Centers, which enable easy distribution of instructions created with Envision to anonymous viewers, such as consumers.
- Permanent Link Sharing, giving manufacturers an integrated way to easily manage redirects of instructions assigned to a URL or QR code, within the Envision application.
- Space Mouse support, which helps users leverage these powerful devices to create and manipulate 3D models when designing Envision documents.

“Work instructions have a direct impact on an organization’s ability to deliver on goals for quality, as people can only perform a task as well as the training and instructions they receive,” said Patricia Hume, CEO, Canvas GFX. “Interactive work instructions created with Envision help enhance understanding by utilizing diverse formats, including 2D, 3D, video, animations, and audio. With high quality learning materials, workers are set up for success, improving job satisfaction and retention.”

Digital Engineering Platform Integration

In addition to presenting the Envision platform in the exhibit area, the Canvas team will demonstrate the results of its collaboration with Aras, SAIC, and Razorleaf to integrate Envision interactive work instructions in the Aras-based ReadyOne platform offered by SAIC.

ReadyOne is a rapidly deployable digital engineering ecosystem that offers an end-to-end digital thread for consistent, traceable, and comprehensive engineering solutions.

- At the General Session on 5 March at 10:55AM, Cresta Bateman and Dave Ewing of SAIC will present “Digital Engineering on Day One,” showcasing the Department of Defense’s instruction on Digital Engineering, enabled by the integration of several platforms with ReadyOne, including Canvas Envision.
- In the Platform Flexibility Track on 5 March at 1:55PM, Ellie Linehan of Canvas GFX and Cresta Bateman of SAIC will present “ReadyOne, Aras Innovator & Canvas Envision: Delivering the Power of Model-based Instructional Content,” demonstrating how to leverage the features of these platforms to drive quality and improve productivity.

Coreform Cubit 2024.3 released, featuring faster performance and improved Python interface

4 March 2024

Coreform Cubit 2024.3 is now available, featuring faster performance on critical commands, an improved Python interface, and numerous feature enhancements and bugfixes. Additionally, the documentation of the DAGMC neutronics workflow supported by Coreform Cubit has been significantly improved.

2x - 10x faster imprint performance

The **imprint and merge** functionality is one of Coreform Cubit's most-used features, as it allows for the creation of conformal meshes across volumes. In this release, we have significantly improved the speed of the imprint and merge workflow by replacing multiple $O(n^2)$ operations with $O(n)$ operations (n being the number of bodies), yielding speed-ups between 2X and 10X on several benchmarks, such as those shown below. Actual speed improvements will vary depending on the number and complexity of bodies being imprinted.

Improved Python interface

A single script file can now support both Python statements and Coreform Cubit commands. Additionally, the script windows in the user interface have been consolidated into one, and the console version of Coreform Cubit now supports Python. Batch processing with scripts can now be done using Python syntax, Coreform Cubit syntax, or both. The command window in Coreform Cubit can be switched between a Python or Coreform Cubit mode either by pushing a GUI button, or by issuing `#!python` or `#!cubit` statements. Using the console version of Coreform Cubit is now recommended when running scripts in non-interactive batch processes. The following image illustrates the new Command window containing both Python and Coreform Cubit syntax.

Support for Windows 11

Coreform Cubit is now tested and supported for Windows 11.

Improved DAGMC documentation

Direct Accelerated Geometry Monte Carlo (DAGMC) is a software package that allows users to perform Monte Carlo radiation transport directly on CAD models. The DAGMC community previously developed a Coreform Cubit plugin, which was integrated into Coreform Cubit in 2023.11. In connection with the release of Coreform Cubit 2024.3, Coreform has collaborated with the DAGMC developers to improve the DAGMC documentation, which is available at the following link: [DAGMC documentation](#).

Improved machine learning geometry preparation capabilities

The **reduce bolt patch** command aids in the structural dynamics idealization of fasteners for simulation. It converts fasteners into circular patches and corresponding sidesets centered on the bolt axis. In the 2024.3 release of Coreform Cubit, the command was enhanced on several

fronts, including hole specification, explicit surface identification, radius factor, surface patch naming, incremental ID with start ID, and robustness improvements.

Additionally, several enhancements have been added to make J2G bolt reduction more robust, including capabilities for handling through-holes in the lower bolt hole volume, allowing splines in bolt holes curve specification, and allowing multiple curves in bolt hole loops.

Finally, hole feature recognition has been improved to find more cases. More accurate identification will assist in rapidly finding holes and removing them.

Cortona3D RapidAuthor 2312: incremental import, automatic search and selection of invisible parts, enhanced integration with Teamcenter, dynamic cross-section in publications, and more

4 March 2024

Cortona3D is pleased to introduce the latest version of its technical documentation software suite, RapidAuthor 2312. This release includes several significant features, such as incremental import, automatic search and selection of invisible parts, dynamic cross-sectioning within publications, and an expanded range of operations that can be executed on the server, saving the author time for other tasks. These updates aim to improve user experience and efficiency in creating high-quality 3D animated and traditional 2D technical documentation for manufacturing and after-sales support.

The new incremental import capability enables authors to selectively import CAD assemblies and parts, thereby improving efficiency and conserving memory resources. Authors can initially import only the hierarchical structure of the project, deferring the import of geometry until later stages. This approach saves considerable time, particularly when dealing with large datasets. Incremental import functionality is available for standalone data in CATIA, NX, Pro/ENGINEER, SolidWorks, and JT formats.

The new release introduces a wide range of enhancements in Teamcenter Integration. Authors can reuse DITA & S1000D content registered in Content Management, that was created in tools other than RapidAuthor. Previously, searches were limited to RapidAuthor project content, and now the search spans across all content management. This is beneficial for users with extensive documentation originating from various editors.

RapidCompiler for Teamcenter, a tool designed for executing long and extensive operations on the server, brings a significant expansion of its capabilities in the 2312 release. Previously, only import and update operations were available. Now authors can seamlessly republish, publish S1000D publication modules and DITA map objects, distribute S1000D and DITA to Content Management, and export S1000D data modules. They can perform bulk operations to initiate tasks for multiple objects simultaneously. All these tasks run on the server so the authors can continue with other tasks while awaiting the results, reducing idle time and enhancing overall productivity.

The addition of import and export functionality for administrative objects in RapidAuthor for Teamcenter allows for seamless transfer of configured setups between environments, leading to time savings and error prevention.

Administrators can benefit from a single universal specification for each authoring tool across S1000D versions 4.1, 4.2, and 5.0. This enhancement makes it easier for administrators to manage content and migrate it to newer S1000D issues.

The new highlight selection modes in authoring tools, X-Ray and Translucent Shell, enable users to visualize hidden parts more effectively within complex 3D models. Additionally, authors now can perform automatic searches and select invisible parts, with the option to delete them. Together, these enhancements provide users with the capability to quickly identify and remove unnecessary components, facilitating publishing, reducing its size, and increasing its visualization speed.

Static items with rectangular sections can now be automatically transformed into flat cable parametric objects. Creating animations of parametric cables, such as shape adjustments and point movements, amongst others, takes significantly less time than animating static geometry.

Other significant improvements in the 2312 release pertain to 2D editing. These include the generation of 2D illustrations using Cortona2D Editor styles, support for raster illustrations in composite illustrations, and the ability to define the illustration type (3D, 2D, or both) for each page.

In publications, end users can benefit from the ability to cross-section 3D models on the fly, show selected objects in a separate 3D view, and measure the approximate distance between two 3D points. This functionality facilitates the analysis and better comprehension of complex 3D models across various scenarios.

We invite you to join us for a special webinar where we'll dive deeper into the new features and capabilities of RapidAuthor 2312. Our team will demonstrate how these enhancements can benefit your organization and answer any questions you may have. Don't miss this opportunity to explore the latest advancements in technical documentation software. The exact date and time of the webinar will be announced later. Stay tuned!

Dassault Systèmes Unveils Innovative, Collaborative Mining Solutions from GEOVIA Within the 3DEXPERIENCE Platform at PDAC 2024

5 March 2024

Dassault Systèmes announced that it is showcasing the latest portfolio advancements of its mining flagship brand GEOVIA during the Prospectors & Developers Association of Canada (PDAC) Convention 2024, on March 5 at the Metro Toronto Convention Centre (MTCC), Room 206-D, in Toronto.

GEOVIA solutions provide end-to-end virtual twin experiences focusing on the intersection of natural resources, infrastructure and urban planning. The GEOVIA solutions portfolio is transforming significantly to seamlessly integrate with Dassault Systèmes' 3DEXPERIENCE platform. This integration establishes a unified source of truth, empowering organizations to

strengthen their resilience in a swiftly evolving landscape while securing a competitive edge across the entire mining value chain, spanning from pit to port.

The latest advancements in the GEOVIA portfolio include the Strategic Mine Planner role and the Underground Mine Designer role, which are available now.

The GEOVIA Strategic Mine Planner role complements the Pit Optimizer role, allowing users to develop a comprehensive strategic plan that is robust and reliable by evaluating critical input parameters through multiple scenario analyses, from development to closure. It enables the simultaneous or sequential application of several advanced value-adding options for optimizing capacity to create a robust mining schedule that prioritizes value and ecological responsibility. The role counts with a novel optimization technology, based on an extension of the Bienstock-Zuckerberg algorithm, which provides increased net present value (NPV) while significantly speeding up runtimes compared to any other commercial solution.

The GEOVIA Underground Mine Designer role enables the user to rethink the design experience of underground mining by evaluating multiple options thanks to generative parametric modeling. Users can generate and evaluate various development designs through a highly automated process, offering an optimal design assessment. Adopting a "Safety by Design" approach allows compliance with requirements and safety standards related to underground excavations, from physical constraints to geotechnical features. The new Underground Mine Designer role allows significant time-savings and transparency through seamless process and data model continuity between different mining levels, development areas and practical access designs.

The two new roles complement the GEOVIA portfolio for mining in the 3DEXPERIENCE platform, which also includes Geology Modeler, Geoscience Referential Manager, Earth Engineering Coordinator and Pit Optimizer.

“We are excited to actively participate at PDAC 2024 and announce our latest advancements in mining solutions,” said Mauro DelleMonache, CEO, GEOVIA, Dassault Systèmes. “Our team of mining specialists and consultants have prepared exciting live presentations featuring multiple releases and scheduled activities harnessing the capabilities of the 3DEXPERIENCE platform. GEOVIA solutions facilitate smooth collaboration, streamlined data exchange, and enhanced workflow efficiency, empowering mining companies to make well-informed decisions, elevate operational performance, and achieve operational and sustainability objectives. Our motivation stems from the vision of modeling a sustainable planet where technology, knowledge and know-how play pivotal roles in advocating responsible management of natural resources. We look forward to connecting with our users, clients, and partners, sharing insights, and actively shaping the future of the mining segment together.”

Elecosoft launches AstaGPT, its first AI tool for the Asta suite of project planning and scheduling solutions

7 March 2024

Elecosoft, the specialist international software provider for the built environment, is pleased to announce its beta release of AstaGPT, an Artificial Intelligence (“AI”) powered tool for its Asta suite of project planning and scheduling solutions.

AstaGPT is a browser-based AI tool that generates helpful responses to users’ questions about Asta Powerproject, Asta Vision and SiteProgress. At launch, AstaGPT offers multilingual support for over 150 languages.

Designed to be fast and intuitive, AstaGPT draws upon Elecosoft’s meticulously authored Asta help documentation to aggregate answers and serve them as logical, stepped solutions. Every answer contains a structured response with source links back to the Asta help documentation so that users can read the original content. It has been tested internally to upskill new colleagues on the core technology of Asta.

Global Product Manager, Martha Karagiorgi said “AstaGPT is a significant tool for both new and experienced users of Asta. This feature will save them precious time when accessing our expert help, meaning they can get back to their tasks faster and equipped with the right solutions. We also see AstaGPT as a valuable addition to our customers’ onboarding and upskilling journeys.”

The Asta suite, which includes flagship product Powerproject, is one of the leading construction planning tools, used globally to plan, track and deliver complex structures. Notable projects include Tottenham Hotspur Football Stadium, Hong Kong International Airport and The Shard in London. The software has been serving users’ needs for nearly four decades, and as such has an extensive help documentation library.

Martha Karagiorgi commented: “We are immensely fortunate to have invested in developing best-in-class Asta Suite help documentation over many years. All 1.5 million words of it have been written and carefully updated by our software experts. AstaGPT complements this resource by significantly enhancing how users access, understand and action those 1.5 million words of expert help.”

The current Asta help documentation is accessed by professionals across 180 countries. Elecosoft’s beta configuration of AstaGPT enables users throughout those countries to input questions – and receive answers – in over 150 languages. Further development and user feedback will continually improve this feature over time.

Daniel Hewson, Data Capability Manager, who is leading Elecosoft’s AI Roadmap, commented: “AstaGPT brings immediate value to our customers and that’s why we’re excited to put it in their hands today and get their feedback for continuous improvement, therefore this is just the beginning.”

Jonathan Hunter, CEO, said “AstaGPT is the first step in our ambitious AI Roadmap, which will deploy time saving and value adding capabilities saving our customers time and money. We are

giving the capability to quickly learn and promptly find answers using Asta to our customers free of charge with AstaGPT.”

The beta version of AstaGPT will be available internationally on the 7th of March 2024.

EON Reality Announces Launch of First in the World Global XR Knowledge Marketplace

6 March 2024

EON Reality Inc., the world leader in XR (Extended Reality) and Spatial AI for education and enterprise, announced the launch of its highly anticipated Marketplace. This groundbreaking initiative marks the world’s first global trade platform for XR knowledge, empowering organizations and individuals to expand their reach and democratize access to quality education worldwide.

Bridging the Knowledge Gap with XR and AI

The EON Reality Marketplace will revolutionize the way knowledge is shared and accessed. It will enable:

- **Organizations:** To expand their global presence by offering valuable XR-based learning experiences to students beyond geographical boundaries.
- **Individuals:** To monetize their expertise by creating and trading XR-powered knowledge IP supported by cutting-edge AI guidance technology.

Effortless XR Content Creation for Everyone

The platform’s user-friendly interface and code-free authoring tools make XR content creation accessible to even those without technical expertise. Users can easily convert existing text-based curriculums into immersive XR experiences, ready for publishing and trading on the Marketplace.

Empowering Pioneers in Education and Training

The EON Reality Marketplace empowers educational institutions, training providers, and individual instructors to become pioneers in the XR learning revolution. By offering their expertise on the platform, they can reach a wider audience, generate income, and contribute to building a more accessible and engaging learning landscape.

Benefits for Students Worldwide

Students around the globe will gain access to a diverse range of high-quality, immersive learning experiences created by leading experts from all corners of the world. This opens up new opportunities for personalized learning, regardless of location or background.

EON Reality Unveils Mandatory Certification Lessons in the US via its Innovative Spatial AI Platform

5 March 2024

EON Reality, the global leader in Virtual Reality-based knowledge transfer for industry and education, announces the launch of its comprehensive Mandatory Certification Lessons for the U.S. market. Through EON's cutting-edge platform, professionals in Education, Manufacturing, Aerospace, Healthcare, Energy, Defense, Security, and Tourism sectors can now access specialized certification training.

A Word from Leadership

Mats Johansson, President of EON Reality, states, "Our expanded XR-based platform is revolutionizing professional certification training, making it more accessible, engaging, and effective than ever before."

Anna Lejerskar, EVP of EON Reality, adds, "These advancements in XR education are not just about technology; they are about transforming the way we learn and excel in our professions."

Education Sector Expansion

EON Reality has crafted a comprehensive suite of certification lessons for educators, from foundational Initial Teaching Certification to specialized ESL and School Counselor Certification courses, all delivered through immersive VR technology.

Manufacturing Sector Enhancement

In manufacturing, EON Reality's platform now includes detailed lessons for OSHA Certification and Lean Manufacturing, among others, enabling professionals to master industry standards in a virtual environment.

Aerospace Sector Development

The company's VR solutions for the Aerospace sector now feature rigorous FAA Certifications and Aircraft Mechanic simulations, designed to support the stringent training requirements of the industry.

Healthcare Sector Advancement

Healthcare professionals can now access VR-based courses for BLS, ACLS, and RN Licensure, which offer realistic patient care simulations to enhance life-saving skills.

Energy Sector Upgrades

EON Reality's energy sector certifications offer interactive OSHA safety courses and CEM training, immersing learners in virtual power plants and energy management scenarios.

Defense Sector Innovations

Defense personnel can utilize courses tailored for DAWIA Certifications and Security Clearances, preparing them with simulated experiences in risk management and security protocols.

Security Sector Progress

Security professionals are provided with advanced CPP and CISSP certification training, featuring cybersecurity simulations to navigate complex digital threats.

Tourism Sector Growth

The platform's tourism certifications now include the CTA Program and CHTMP certification, promoting exceptional service standards through interactive customer service scenarios.

Flexxbotics Provides Robot Compatibility with DMG MORI CNC Machines and Equipment

5 March 2024

Flexxbotics, delivering workcell digitalization for robot-driven manufacturing, announced advanced robot machine tending connectivity compatible with the entire range of DMG MORI machine tools including turning, milling, ultrasonic, lasertec, additive manufacturing, and grinding. With Flexxbotics next generation machining environments using robotics with DMG MORI equipment achieve higher yields, greater throughput and increased profit per part.

Flexxbotics' patent-pending FlexxCORE technology enables robots to securely connect and communicate with DMG MORI machinery in the smart factory to provide more powerful, flexible and open robot connectivity than previously possible.

Flexxbotics compatibility includes DMG MORI's CELOS®, as well as, Siemens, Heidenhain, Mapps, Mitsubishi and Fanuc controls utilized across DMG MORI systems. Flexxbotics is also compatible with a wide range of open standard protocols including OPC/UA, MTConnect, Modbus-TCP, TCP/IP, Ethernet/IP, and DeviceNet along with MELSEC, Profibus/Profinet and other proprietary controllers and interfacing protocols.

"Most of the time when automation projects fail it's because the robot is disconnected and can't properly communicate with the machines which minimizes any efficiency gains and can cause quality issues," said Tyler Modelksi, Co-founder & CTO of Flexxbotics. "We understand the complexities of robot-machine communication which is why we developed our breakthrough FlexxCORE technology which delivers broad interoperability to enables the robots to optimize each machine's operation."

Flexxbotics robotic workcell digitalization is the backbone of the Smart Factory, delivering robot-driven manufacturing at scale with autonomous process control for precision machining operations. Flexxbotics' SaaS/hybrid architecture also runs both online and offline so production continues with or without internet access, and Flexxbotics works with existing business systems such as DNC, CAD/CAM, SCADA/HMI, IIoT, MES, ERP, PLM and others for complete synchronization.

A full set of bidirectional communication, transform and routing capabilities are available in Flexxbotics for the robots and DMG MORI machinery that are connected including loading PLC programs, sending instructions, updating parameters and status awareness depending on the equipment's capabilities so the robots drive the machines in the smart factory.

"Global manufacturers are at different phases in transforming to production robotics in the smart factory," said Tyler Bouchard, Co-founder and CEO of Flexxbotics. "That's why Flexxbotics solutions for advanced robotic machine tending can be deployed quickly at scale factory-wide or incrementally one workcell at a time."

Fosfor announces the Fosfor Decision Cloud to Amplify Business Outcomes with AI

4 March 2024

Fosfor, a product division of LTIMindtree, a global technology consulting and digital solutions company, at its Foton 2024 event, announced the launch of the Fosfor Decision Cloud (FDC). The FDC is a connected fabric that helps companies organize data to build automated, modular, trustworthy data transformation pipelines, build and deploy impactful AI applications, and harness the power of AI to make better business decisions, faster.

Currently companies need to create their own collection of disconnected point solutions to facilitate the transformation of data into business insights. The Decision Cloud represents the next step in the evolution of formerly disconnected data and AI investments into a modern decision stack that augments the data-to-decisions journey using three new innovations:

- **Fosfor AI:** The GenAI-powered assistant that helps with frequent tasks across the data-to-decisions journey such as constructing data pipelines, generating ML model code, constructing natural language prompts, and curating data stories. Fosfor AI radically increases productivity for virtually any user persona, thereby reducing time-to-insights and accelerating the realization of business outcomes.
- **Fosfor Semantic:** The knowledge graph used by all FDC capabilities to organize and maintain the integrity of data, define data relationships, and enable the application of advanced analytics to the data. Because Fosfor Semantic is used to facilitate everything from data integration to AI algorithm development to insight generation, it vastly accelerates all steps of the data-to-decisions journey.
- **Fosfor UX:** The design system through which all capabilities are accessed using consistent navigational elements and constructs, curated for specific personas based on their commonly used workflows and goals. Fosfor UX flattens the learning curve and simplifies collaboration across various personas, allowing all users to adapt more quickly to the FDC platform.

The FDC is supported by a robust partner ecosystem anchored by Snowflake, Fivetran, Amazon Web Services, Microsoft Azure, the Google Cloud Platform, and GoldenSource. Snowflake, the Data Cloud company, and Fivetran are FDC launch partners.

“The Decision Cloud marks a major milestone in the evolution of Fosfor and is a major breakthrough in the way businesses can develop and deploy AI to achieve business value,” said Debasis Satpathy, Chief Business Officer, Fosfor. “To elevate the impact of business outcomes, the Decision Cloud brings all the required capabilities onto a single platform, along with powerful insight tools, to support every persona involved in an accelerated data-to-decisions journey. We are excited about the impact the FDC is going to have on the business effectiveness of AI.”

“Organizations across industries continue to struggle with the fragmentation of applications and tools,” said Tarik Dwiek, Head of Technology Alliances, Snowflake. “With the Fosfor

Decision Cloud seamlessly integrated into Snowflake, customers can now tap into a single experience to fully democratize their data and fuel their data-driven decision making.”

“Fivetran is pleased to be Fosfor’s launch partner for automated data movement,” said Scott Jones, Chief Revenue Officer, Fivetran. “Providing the foundational capability to integrate with virtually any data source to cost-effectively bring business data into cloud warehouses where the Decision Cloud can then transform it into insights and business value. Using our library of 400+ connectors, Decision Cloud users can focus on building outcome-targeted data products that accelerate their insights journey. We look forward to working together with Fosfor to define the modern decision stack and create transformational outcomes for our customers.”

General Motors, Magna, and Wipro Team Up to Develop Automotive Software Marketplace: ‘SDVerse’

5 March 2024

General Motors (GM), global automotive supplier Magna, and leading technology services and consulting company Wipro Limited, have teamed up to develop a B2B sales platform for buying and selling automotive software. The platform, called SDVerse, aims to revolutionize the automotive software sourcing and procurement process by providing a matchmaking platform for buyers and sellers of embedded automotive software.

Unlike the traditional captive software development approach, SDVerse focuses on connecting automotive software buyers and sellers through a transparent and efficient digital platform. Sellers can list their software’s features and attributes, while buyers can easily search and explore the available software products through a comprehensive catalogue.

Sales and purchases can be connected directly through the platform, offering a seamless experience for all participants. SDVerse is currently in development and expected to feature hundreds of automotive software products, and participants from across the automotive value chain are invited to join. In addition to the founding members, an exclusive “Launch Partner” group is already in place led by Ampere*, FEV, Forvia, HL Mando, NXP Semiconductors, TTTech Auto, and Valeo.

Prashant Gulati has been named CEO of SDVerse effective March 5th, 2024. Prashant has more than two decades of experience launching and leading automotive organizations and is a thought leader in software technology, maximizing the potential of emerging technologies, such as AI, in the automotive industry.

“The market for automotive software is expected to nearly double this decade, potentially outpacing the growth of software development talent pools,” said Harmeet Chauhan, Global Head Wipro Engineering Edge, Wipro Limited. “The current paradigm for software sourcing will likely not be able to overcome this growing gap without sacrificing both profitability and the auto industry’s aspirations for software defined vehicles. SDVerse addresses these pain points, offering a wide range of benefits across the industry.”

“Automotive grade software development is rapidly transforming, and we all need to ask ourselves how we get customers really unique differentiating features faster. Part of that is

identifying the common underlying code that can be shared in the name of higher quality and lower costs for our end customers,” said Dan Nicholson, Vice President, Strategic Technology Initiatives, General Motors. “This first-ever software marketplace creates an independent, industry-driven one-stop-shop for embedded systems software, significantly expanding access to new innovations, helping to drive down cost, and allowing companies like GM to implement critical software more quickly.”

Potential key subscriber benefits of SDVerse include:

- **Reduced cost, time, and complexity**, by eliminating duplication of efforts, enabling reuse of already-developed software, and allowing higher economies of scale by bundling software orders through multiple clients.
- **Higher quality of software**, which has already undergone increased cycles of testing and validation. Additionally, the free-market approach improves customer vehicle quality through competition.
- **Improved resource allocation**, which allows OEMs and suppliers to deploy engineering resources to innovate in areas that improve and differentiate driver and passenger experiences, and minimize time spent ‘reinventing the wheel’.
- **Improved revenue for sellers**, through an expanded client base and opportunities to monetize existing IP.
- **New approach to software sourcing**, allowing companies to source software separately from hardware, and to create an attractive alternative to OEM insourcing of software development.

“Magna’s participation in SDVerse is driven by our ongoing commitment to foster collaboration and drive the automotive industry forward,” said Joerg Grotendorst, Senior Vice President, Corporate R&D at Magna. “By embracing this innovative platform, we aim to create a more interconnected ecosystem that encourages OEMs, suppliers, and specialty software developers to collaborate and co-create cutting-edge solutions. SDVerse represents a transformative opportunity to revolutionize software development, sales, and sourcing processes, ultimately accelerating the industry’s transition to the software-defined vehicle.”

GM, Magna, and Wipro collectively designed and developed SDVerse, which will be governed collaboratively by the founding members. Global strategy consultant Roland Berger has served as the project’s strategic advisor since the program’s inception.

Konstantin Shirokinskiy, Partner, Roland Berger added, “SDVerse offers a blueprint for OEMs and suppliers to address their embedded software needs more efficiently. It frees up scarce software engineering resources required to roll out new differentiated software features, reorganizes development timelines to more quickly develop better SW-enabled vehicles, and ensures software is valued properly. Companies can streamline their operations, becoming more focused, efficient, and profitable.”

On Thursday, April 4th, leaders from GM, Magna and Wipro will participate in a livestream panel discussion to provide further depth and insights into SDVerse. To register and to learn more about SDVerse, visit SDVerse.auto.

*Ampere is the EV and Software pure player of Renault Group.

HCLTech launches AI Force to accelerate time-to-value in software development and engineering lifecycle

5 March 2024

HCLTech, a leading global technology company, announced the launch of HCLTech AI Force, an innovative GenAI platform that accelerates time-to-value by transforming the software development and engineering lifecycle, delivering greater productivity, improved quality and faster release timelines.

The patented GenAI platform is built on Azure OpenAI and can be integrated with Microsoft GitHub Copilot, but is system agnostic. It offers a highly customizable suite of GenAI-based solutions that inject intelligence into every aspect of software development and engineering workflows to improve efficiency and developer experience.

"We take great pride in spearheading the art of possible in AI and are thrilled to unveil this exciting innovation," said Vijay Guntur, President of Engineering and R&D Services, HCLTech. "This platform is a true game-changer and some of our pilots with clients in the technology and financial services industries have delivered extremely encouraging outcomes."

Prioritizing responsible AI adoption, HCLTech AI Force integrates robust security and governance measures, fostering secure innovation and growth at scale.

With its full-stack application development and engineering expertise and decades of experience in AI, HCLTech is helping clients unlock the best value out of GenAI, from chip development to cloud and business process optimization.

HCLTech launches FlexSpace 5G to redefine digital workplace

29 February 2024

HCLTech, a leading global technology company, launched FlexSpace 5G, an advanced digital workplace experience-as-a-service that boosts efficiency and security for global businesses.

Powered by Verizon's secure, reliable network and HCLTech's best-in-class hardware partnerships, this offering is a significant upgrade to HCLTech FlexSpace, which supports the entire workplace experience value chain. It enables a smooth transition to a digital workplace for all categories of employees, whether at the desk, remote, on-the-go, or on the frontline.

HCLTech FlexSpace 5G carries unique benefits for businesses.

- It provides 'Experience-as-a-service' to support end-to-end device life cycle management.
- It extends mobility for enterprise users in the hybrid work model, going beyond Wi-Fi.

- It provides fast and more dependable connectivity, proving advantageous for various sectors, including financial services, technology, life sciences, healthcare, telecom, media and entertainment.
- It assuages data security worries for users working remotely.

“With HCLTech FlexSpace 5G, powered by our strategic partner Verizon Business, we aim to provide our clients with a fluid, hybrid and sustainable future of work that fosters collaboration, productivity and innovation,” said Rakshit Ghura, Senior Vice President and Global Head of Digital Workplace Services, HCLTech.

“We continue to make significant investments in our network in order to support solutions such as these, which enable employees to work virtually wherever they need to connect, be that in an airport, a client’s office or on the road,” said Jonathan Nikols, Head of Global Enterprise Americas, Verizon Business. “Connected devices on our network also provide our customers with additional peace of mind due to the enhanced, built-in security inherent to the Verizon network, a significant improvement over public Wi-Fi.”

Hexagon’s industry-first zoom-enabled optical 3D scanner provides unparalleled flexibility for inspecting complex parts

6 March 2024

Hexagon’s Manufacturing Intelligence division has announced the launch of a new type of high-productivity structured light scanner. Built on a completely reengineered platform, the **SmartScan VR800** is the first optical 3D scanner on the market with a motorised zoom lens that enables users to adjust data resolution and measurement volume entirely through software settings. This greatly improves the productivity of quality inspection, and further improves workflows with more efficient post-scanning alignment processes, including the ability to combine scans of different resolutions within a single project.

Whereas conventional structured light scanners have a fixed optical configuration, the combination of dual stereo cameras and optical zoom-enabled projection makes the **SmartScan VR800** far more flexible, allowing users to define in exactly which form they collect their data. Three new software functions – Smart Resolution, Smart Zoom and Smart Snap – allow the user to customise inspection resolution and measurement volume with no mechanical alterations to the system. That means data-heavy high-resolution scans can be focused on the feature-rich areas that matter most, while other areas can be covered more efficiently by larger and/or lower resolution scans.

The new system simplifies the scanning process from start to finish:

- Easily adjust scan detail and size with software, no manual changes needed
- Mix detailed and broad scans into one model for faster results
- Process scans quicker by cutting down on excess data, while keeping the essential detail they need

Pirmin Bitzi, General Manager for Portable Metrology Devices at Hexagon explains, “The need to change optics for different use cases has always been a key challenge when implementing structured light scanning inspection solutions. Finding a solution to that industry-wide problem was a key motivator for us – we wanted a way to meet the demands of the many applications where it’s not efficient to scan everything at high resolutions, and neither acceptable to scan everything at lower resolutions. That’s what we’ve strived to achieve with the VR800.”

Structured light scanning, otherwise known as white light scanning or simply optical 3D scanning, is a camera-based measurement technology that can deliver extremely high-resolution part data in seconds. Other structured light scanners on the market are stereo-camera systems, with typically two 5-16 MP camera units. The VR800 uses four 20 MP cameras in a dual stereo setup- for a wider range of measurement volumes. This is uniquely combined with an optical-zoom digital projection unit that makes it possible to measure different volumes (three from each camera pair), as well as vary the resolution within each volume. Additionally, the system’s integrated controller unit provides fast pre-processing of scan data on the device, ensuring the data heading into the metrology software is cleaner and easier to use. A custom-built carbon fibre frame ensures thermal stability and allows for longer intervals between calibrations.

The VR800’s Smart Snap function in particular delivers significant workflow efficiency, even on parts where everything needs to be scanned at higher resolutions. This mode uses the larger-base camera pair to take an LED flash-supported alignment image at the same time as the smaller-base camera pair performs a full high-resolution 3D scan. Because each scan section is now paired with an alignment image, knitting the scan data together is both easier and more efficient – there’s no more need for overlaps of data-intensive high-resolution scans that require heavy-duty processing power to achieve an aligned mesh.

These new scanning capabilities can be applied to a broad range of measurement applications, with significant advantages for the type of parts commonly produced through additive manufacturing, tool and die, and casting and moulding. Manufacturers that perform turbine blade measurements for instance, will see significant efficiency improvements from a system that can scan leading and trailing edges at very high data resolution and deliver lower-resolution alignment data for the rest of the blade form. Similarly, moulded parts often combine small details that demand high-resolution data within a larger object that doesn’t need such detailed data capture to create an accurate model. The VR800 provides the flexibility to make these measurements in a single continuous workflow, using a single structured light scanner with no need for mechanical adjustment by the user, both saving time and reducing the processing power demanded by the inspection process.

As with other **structured light scanners** from Hexagon’s range, the VR800 can be paired with a turntable or turn-tilt unit to enable semi-automated measurement workflows. The VR800 is also ready for integration within robot- or cobot-based fully automated inspection systems.

Informatica Launches Cloud Data Access Management, Industry's First AI-Powered Solution for Automating Data Access Policy Enforcement at Scale

29 February 2024

Informatica is launching Informatica® Cloud Data Access Management (CDAM), a solution based on Informatica's 2023 acquisition of Privitar, an industry leader in comprehensive data access management products. Now integrated into the Intelligent Data Management Cloud (IDMC), Informatica's flagship data management platform, this AI-powered solution is a key component of data access governance, leveraging IDMC's common metadata foundation.

CDAM revolutionizes how organizations manage, share and use their data by ensuring compliance with policies and fostering customer trust. It integrates seamlessly with IDMC to offer secure and automated AI and analytics use cases. At the heart of CDAM's offering is the CLAIRE AI engine, which ensures automated sensitive data classifications at enterprise scale. With CDAM, data teams have universal, automated controls at their disposal to govern data access, ensuring data is not only secure and private but also readily available.

Key Features Include:

- Intuitive policy authoring to simplify enterprise-wide data access management.
- Leverages CLAIRE AI Engine to automate sensitive data classifications to identify personal records, personal identifiable information, financial records across large datasets.
- Fully Integrated with Cloud Data Integration and Cloud Data Marketplace for automated contextual controls on data use and sharing.
- Streamlines policy enforcement and auditing across diverse environments to enhance security, privacy and data management.

Key Benefits Include:

- Accelerate access to trusted data for analytics and AI.
- Reduce the cost of compliance and reduce the risk of data misuse.
- Simplify controls on data across complex, hybrid data operations.
- Automate self-service access to data from hundreds of data sources.

"We've heard directly from data leaders, and 40% of them have stated data privacy, protection and compliance as their top challenges when managing their data strategy priorities. To address these needs, we are excited to launch our Cloud Data Access Management as part of a holistic data access and governance solution on IDMC," **said Jitesh S Ghai, Chief Product Officer at Informatica.** "CDAM combines data access control with classification, discovery and cataloging tools, using metadata to automate processes. This makes operations in data-driven organizations more efficient and easier to scale, simplifying and speeding up tasks."

Keysight and AMD Break Barriers to Redefine Benchmarking for Cloud and Edge Infrastructure Performance

5 March 2024

Keysight Technologies, Inc. leveraged 4th generation AMD EPYC™ CPUs from Advanced Micro Devices, Inc. to develop an industry first benchmarking methodology that redefines the landscape of system performance evaluation for high-speed digital designers, network equipment manufacturers, and data center operators.

The deployment of mobile and 5G private networks is expected to grow rapidly across many industries as part of their automation and digital transformation strategy. This diverse set of industry use cases requires a versatile compute architecture that can simultaneously support millions of low-latency, high-bandwidth devices, and a multifaceted workload profile. Given this transformation, comprehensive infrastructure benchmarking is critical to ensure optimal performance across a spectrum of industry use cases.

To provide more realistic performance benchmarks, Keysight in collaboration with AMD developed an integrated test case methodology that takes into account the processing power of central processing units (CPUs). Using realistic traffic emulation, this novel approach enables data center operators to extract more performance from a chosen CPU and to characterize the performance across multiple vectors while adhering to bandwidth requirements. The methodology was developed by deploying Keysight's software tools onto AMD EPYC™ processors to conduct staged test cases with realistic traffic at scale.

Highlights of the test case methodology include:

- **Infrastructure scalability** – In settings such as smart grids and smart manufacturing, smooth and reliable operation requires handling millions of concurrent devices. Traditional benchmarks frequently overlook the CPU's capacity and its capability to handle a considerably higher concurrent load as the network's bandwidth constraints obscure this ability. This new benchmarking approach is designed to uncover the true CPU power and scalability in these environments.
- **Real-life authenticity** – Mobile and 5G private networks support specialized fields like vision-based smart manufacturing, extended reality (XR) viewership, and retail workflows. Testing infrastructure for its capability to handle realistic application, voice, and video traffic is crucial. The new benchmark emphasizes replicating bulk activities with millions of devices establishing new sessions and including highly realistic scenarios like subscribers initiating voice, video, and web calls. This insight into real-world capabilities empowers data center operators to provision their infrastructures accurately.

Raghu Nambiar, Corporate Vice President, Data Center Ecosystems and Solutions, AMD, said: "5G mobile network operators worldwide are facing an unprecedented demand for bandwidth. This consistent growth of data traffic volume requires scalable and effective benchmarking solutions to accurately measure user experience. Our collaboration with Keysight

demonstrates the ability of AMD EPYC CPUs to deliver impressive parallel processing performance to handle these high volumes of data traffic."

Ram Periakaruppan, Vice President and General Manager, Network Test & Security Solutions, Keysight said: "Single dimension benchmarking methodologies like throughput are insufficient for data center operators to properly design and deploy their compute infrastructure. New performance benchmarking is needed in the modern mobile and 5G private networks. When used, it highlights the prowess of the AMD 'Zen 4' chiplet architecture to meet complex demands in those networks."

Materialise Redefines Data and Build Preparation for Metal 3D Printing

5 March 2024

Materialise, a global leader in additive manufacturing software, announces e-Stage for Metal+ software and will introduce the solution during the Additive Manufacturing Users Group (AMUG) show in Chicago, which is taking place from March 10 – 14. The software optimizes data and build preparation for laser powder bed fusion (LPBF) systems using physics-based modeling to automate support structure generation and will help make metal additive manufacturing (AM) more economically viable.

LPBF is the leading segment for AM, accounting for over 52% of the industry's global revenue in 2022.¹ It's also one of the most complex technologies to use, with many potential challenges. According to an independent survey commissioned by Materialise, two main factors holding companies back from adopting 3D printing are a lack of knowledge and the cost associated with the production process. Both challenges play a central role during build preparation for LPBF.

"By automating support structure generation with Materialise's software, you can streamline your 3D printing process," says Mirco Schöpf, Product Line Manager Software at EOS. "It simplifies support removal, reduces support volume up to 80%, eases powder extraction, and decreases build plate machining after an effortless part removal. We look forward to exploring e-Stage for Metal+ and discovering additional benefits."

e-Stage for Metal+ leverages physics-based modeling to calculate where deformations during the 3D printing process will occur and automatically generates needle-thin and cone supports where needed. Combining the two support types optimizes stability and heat distribution during the 3D printing process, helping to avoid part deformation while reducing post-processing efforts. This removes the compromise between part quality and overall production costs, offering companies a fresh perspective on their complete LPBF process by making it more economically viable and straightforward to adopt. Automated tools like e-Stage for Metal+ lower the learning curve, allowing users to connect the software to any machine and quickly optimize support generation.

"Metal AM users tend to overload parts with support structures during manual data preparation," explains Ian O'Loughlin, Metal Practice Lead at Materialise. "They want to avoid defects and the costs associated with reprinting the parts. That's why intelligent tools like e-Stage for Metal+ are crucial. Automating support structure generation at the sweet spot of printability and required supports saves time, material, and post-processing costs."

e-Stage for Metal+ is a module for Magics, Materialise's leading data and build preparation software and core element of its 3D Print Suite. Magics is a technology-neutral software offering compatibility with nearly all import file formats and connectivity to all major 3D printing technologies. It provides users with advanced control and automation for their workflows.

"We are continuously enhancing our software solutions to support AM users in their daily business," says Lieve Boeykens, Solution Strategist at Materialise. "Automation can support AM users in bridging knowledge gaps to adopt the technology faster, accelerating return-on-investment, and helping them lower the overall production cost. Materialise's e-Stage for Metal+ helps companies achieve economic viability."

New Version Almacam 4.0.2

27 February 2024

Coming with about 50 new features, the new release of Almacam software suite is the result of a half-year of research and development. It makes the process of nesting, cutting and the whole workflow of sheet metal and tube cutting FASTER and SAFER.

Rosalinda Ferrandes, Product Head of Almacam, explains: *"Our mission is to help machine builders and metal workers optimize their CAD-CAM production workflow. With this new version, we focused on enhancing the speed and efficiency of users' day-to-day tasks and make easier for them to secure their environments. As usual, the priorities for this new version are based on our regular discussions with our partners and customers."*

Strengthen security for continuous uptime machines

Managing risk in the era of Industry 4.0 and connected production is not an option. To ensure continuous production and data privacy, this new version strengthens the overall security of Almacam instances.

Among all, metal manufacturers will be able to leverage higher user access controls, enhancements on PostgreSQL database security and robust authentication. This ensures compliance with the security standards of sensitive sites making them even safer. Thus, Almacam helps safeguard manufacturing data and ensures uninterrupted production operations by maintaining the integrity and availability of critical data.

Performance improvements for an even faster software

Almacam 4.0.2 significantly improves the overall software performance for a better user experience and a more efficient CAD-CAM workflow. Processing times have been reduced by 50% or even more for some cases. Some examples:

- In Almacam, the quote edition is 2,75 faster! "When you have dozens of RFQs to answer a day, relying on a fast and responsive software is a great help." explains a metal sales representative.
- Want to generate a workshop document? Speed improved by 25%.
- Time for tube recognition have been cut in half!

These figures don't sound so good to you? Sure, you'll see how your everyday work is nice when you get a tool as responsive as you are!

3D CAM -Tube: new advanced capabilities

Almacam Tube is one of the most cutting-edge modules of the Almacam software suite. Already offering many automation capabilities, optimized nesting and flexibility, the new version comes with new advanced features.

To name just a few features:

Additional automatic junctions

Not only Almacam Tube enables to configure automatic junctions on holes and extremities with a chop-off, but now it is possible to configure automatic junctions on fold cuts and on extremities corresponding to complex profiles as grooves or notches.

Marking edge intersections between tubes

Marking-type connections can now be added to two T-type tubes in an assembly. This type of connection adds a marker that indicates the tube intersection, without modifying the tube geometry.

New option for improved offcut management

With a constant focus on reducing material waste, Almacam 4.0.2 delivers a new tube option called *Avoid final scrap (AFS)* : it makes possible to nest tubes in the *dead zone*, and shifts the offcut to the opposite side to the chuck.

How to leverage this new version?

Almacam 4.0.2 version if available for all customers with an active maintenance.

Noesis Solutions launches nvision, an AI-powered modelling tool to accelerate innovation.

6 March 2024

Noesis Solutions, a trusted digital engineering transformation partner, announced the launch of nvision, an AI-powered surrogate modelling tool, that enables engineers to perform almost real-time predictive analysis of their designs, powered by the latest Artificial Intelligence (AI) technologies. nvision is an open, solver-agnostic modeling tool, that drastically reduces design time by performing real-time 'what-if' studies and it enables access to simulation data to cross-functional experts through its intuitive interfaces and processes.

Real-time predictions with the power of AI

Designing complex engineering systems often requires many iterations of engineering simulations that are computationally expensive to run. Solvers and parameters must often be tuned individually for each system to be studied. In today's volatile market environment, where time is money, engineers are consistently seeking ways to improve productivity without sacrificing the accuracy and the quality of new product designs, with an imperative of shorter time-to-market. With nvision's AI and physics-agnostic machine learning technologies, engineers can easily build and train a high-fidelity, parameterized surrogate model and predict the performance of their products almost instantaneously.

“Our customers across industries are becoming more reliant on new methods to accelerate their design processes. This increased demand to shorten design process time along with the power of AI - infused into the design process along with simulation, enables the engineers to redefine and gain more value out of existing data. This opens a world of possibilities for organizations across industries to develop competitive products with inherent time and cost saving benefits.”, commented Georgios Papanonakis, Chief Product Officer, Noesis Solutions, about the conceptualization of nvision.

“With nvision, our goal is to work alongside our partners accelerate their research and development processes, shorten product development cycles, and promote innovation with the power of data – both historic and new, enabling expansive design exploration opportunities”, he added.

Convert historic data into insights for tomorrow

Modern engineering companies have embraced simulation technologies to design and test their new products, thereby reducing the need for manual testing. Recycling the dormant know-how data from past simulations data, that has already consumed time and resources, to train surrogate models with, serve for a safer and a more competitive product with a shorter time-to-market and less usage of resources. This will enable engineers and designers to make more educated designs at the inception of their projects with the integration of reduced order modelling, exemplified by nvision.

“With nvision, engineers can not only expedite their design processes, but also reuse their historic simulation data to gain new insights from them, ultimately redefining the perception of what is possible. By recycling the wealth of knowledge encapsulated in previous and recent simulations, nvision provides a multidimensional map for their designers to navigate, allowing them to anticipate potential failure points in the future projects”, said Ceyhun Sahin, Product Owner – nvision, Noesis Solutions.

nvision is an open, solver-agnostic modeling tool that enables simulation engineers, designers and product owners to reduce design time by leveraging existing knowledge from simulation studies, perform real time what-if studies and decision making and speed up product development without spending time and effort with unnecessary simulation iterations.

Plataine Unveils AI-Based Autoclave Scheduling Optimization Solution, Contributing to Industry Ramp-Up and Sustainability Efforts

5 March 2024

Plataine, a leading innovator of AI-based manufacturing optimization solutions, introduces its Autoclave Scheduler Solution, part of Plataine’s Total Production Optimization (TPO) solution suite. Operating autoclaves is associated with significant expenses, a high carbon footprint, and often creating a bottleneck in production processes. The complexity of handling multiple recipes, part & machine profiles, and designated tools has historically led to inefficient utilization, with autoclaves running well below capacity.

Increased pressures to increase production rates, coupled with sustainability requirements, require rapid technological evolution. Plataine has taken a significant leap forward with the Autoclave Scheduler, an AI-Based, cutting-edge scheduling solution tailor-made for composite manufacturers, to address these challenges. This innovation is designed to streamline operations, reduce operational costs, and significantly increase Overall Equipment Effectiveness (OEE) – all while boosting factory efficiency and contributing to sustainability efforts.

Plataine's AI-driven Autoclave Scheduler optimizes autoclave operations, considering real-time production factors, such as autoclave volume and capacity, part recipes, vacuum-port & daisy-chaining restrictions and considerations, digital management of physical assets (Tokenization), tool variations, human capacity, shifts and availability, and the overall production situation up- and down-stream from the autoclaves to automatically generate optimized and practical plans. The plans adhere to all restrictions, requirements, capacities, and availabilities of relevant resources and demand sets. They follow business rules, machine profiles and material recipes and priorities, ensuring due dates are met while optimizing each autoclave run to its fullest potential.

Manufacturers can now maximize production throughput, resource utilization and efficiency, and reduce autoclave operation costs. In addition, this solution is imperative for achieving sustainability standards by reducing energy costs, helping our customers to be at the forefront of innovative technology adoption, and achieving both production and sustainability KPIs.

Amir Ben-Assa, VP Marketing & Product Strategy at Plataine said: "We are excited to introduce Plataine's Autoclave Scheduling Optimization Solution to the market. Our commitment to sustainability is a core component of our mission, and this product is a testament to that. This solution not only meets the growing demand and minimizes production bottlenecks but also significantly improves overall efficiency. We believe that the Autoclave Scheduler is imperative for eco-efficient production in the composite manufacturing industry."

Plataine is exhibiting at JECWORLD 2024, March 5-7, Hall 5, Booth P74. Stop by our booth to learn how streamline operations, reduce operational costs, and significantly increase Overall Equipment Effectiveness (OEE) at your factory.

Red Hat and Tech Mahindra Enable Greater Hybrid Cloud Flexibility for Telco Workloads

26 February 2024

Red Hat, Inc., the world's leading provider of open source solutions, and Tech Mahindra, a leading provider of digital transformation, consulting, and business re-engineering services and solutions, announced a collaboration to make it easier for telecommunications service providers to accelerate and manage 5G adoption and deployments across the hybrid cloud. Tech Mahindra's Multi-mode Companion Cloud with Red Hat OpenShift running on Amazon Web Services (AWS) can support multiple network use cases, spanning RAN, edge computing, transport and 5G core, to extend capabilities across hybrid cloud environments with integrated automation and orchestration capabilities.

As service providers adopt hybrid cloud to enable more highly available and reliable 5G services, compute resources and data are increasingly decentralized across core datacenters, at the edge and in the cloud. With this in mind, service providers are looking for ways to minimize the complexity that comes with managing and securing workloads across these diverse environments.

Tech Mahindra's Multi-mode Companion Cloud offering helps service providers more seamlessly off-load on-premises workloads to hybrid cloud environments, that includes Red Hat OpenShift on-premises and on AWS. This helps to increase scalability, speed cloud migrations and make managing 5G services easier via a centralized orchestrator and integrated automation capabilities. Red Hat OpenShift provides a more consistent infrastructure and application layer to support operations at scale across any cloud environment, with Tech Mahindra's netOps.ai offering a single-pane-of-glass view to manage infrastructure and automate applications with zero touch provisioning. In addition, Red Hat Advanced Cluster Management for Kubernetes enables full cloud lifecycle management to automate Day 0 and Day 1 configurations and orchestrate workloads across Red Hat OpenShift clusters on-premises and on AWS.

Key benefits of Tech Mahindra's Multi-mode Companion Cloud running on Red Hat OpenShift include:

- **Increased flexibility** to roll out updates and streamline network provisioning across cloud infrastructure.
- **Reduced costs** by enabling service providers to get the most out of existing cloud budgets and committed spend with the leading public cloud providers like AWS.
- **Greater elasticity** by using the power of AWS to deploy pay-as-you-use and pay-as-you-grow business models.
- **Improved network resiliency** through the ability to more quickly and easily provision additional compute power on demand in AWS as the network traffic dictates.

Effectively and efficiently managing diverse, next-generation services across hybrid cloud environments requires extensive automation capabilities. The collaboration between Red Hat and Tech Mahindra gives service providers this necessary level of automation across the hybrid cloud, from the core datacenter to the edge to AWS, offering more seamless cloud lifecycle management and intelligent workload placement. With this offering, service providers can reduce manual tasks and minimize network inefficiencies by integrating with existing systems and platforms, enhancing synchronization across the hybrid cloud while still supporting varied network needs.

To further support this offering, Tech Mahindra and Red Hat also collaborated with i2i systems and Reba.ca. i2i systems' 5G Core Network on Tech Mahindra's Multi-mode Companion Cloud with Red Hat OpenShift on AWS can be used to create a redundant 5G core network to help drive high-speed, low-latency connectivity. ABot, Reba.ca's cloud-native continuous test assurance and analysis solution for 4G, 5G, and ORAN, can execute 3GPP-compliant test

scenarios and analyze real-time KPIs from different layers of the network, providing an optimized framework for verification and “right-sizing” of telco workloads on various platforms.

Rockwell Automation Expands On-Machine Portfolio to Help Manufacturers Achieve a New Era in Machine Design

29 February 2024

Rockwell Automation, Inc., the world’s largest company dedicated to industrial automation and digital transformation, has expanded its On-Machine™ solution offering to empower companies to design machines that reach production faster and deliver more value over their lifespan.

On-Machine solutions enable decentralized control architectures where automation components are field-mounted rather than kept in large electrical enclosures. This approach offers more simplified, modular machines that can have lower total costs, reduced footprint and less time to operation. By enabling key components to be easily accessed by factory personnel, they are better enabled to proactively identify and address problems and increase system uptime.

As companies look for new ways to advance their sustainability initiatives and meet new regulations, On-Machine solutions from Rockwell Automation provide an opportunity to make a leap in meeting these goals. By reducing cabling by up to 90% and scaling down or eliminating temperature control systems, companies can lower the resources and energy required to manufacture their products. On-Machine solutions can also enable automation systems that are much more modular and scalable than traditional systems.

“Manufacturers are facing market trends that quickly change and consumers that are demanding more customization and innovation,” says Joe Azzolina, senior product manager, Armor PowerFlex, Rockwell Automation. “On-Machine solutions are less constrained by physical boundaries such as enclosure size or ridge architectures. This means that modular design is easier to achieve, and OEMs and end users alike can be adaptive and build for the future.”

Rockwell Automation offers a broad range of On-Machine technology scalable solutions designed to help meet rigorous application needs and unlock new value in industrial processes. Below are some of our newest On-Machine options:

- **ArmorKinetix Distributed Servo Drives:** Provides high-performance of the Kinetix® 5700 platform in a compact, IP66/67 rated form factor, configurable as near-motor drive or integrated drive-motor solution.
- **ArmorBlock 5000® I/O Blocks:** Offers ratings up to IP69K, three power variants, flexible mounting options and use IO-Link technology for harsh environments.
- **Armor™ PowerFlex® Drives:** Provides On-Machine VFD motor control solutions that enable more smart, safe, secure and simple operations, featuring gigabit dual-port EtherNet/IP™ communication with hardware and network safety features.

- **ASEM™ 6300PA On-Machine Industrial PCs**-Helps save time, space and installation cost. With a fanless design and wide temperature specs, these PCs are built to deliver years of reliable operation.

SODA - SDV Kit: Vehicle Creation 2x Faster, 4x Less Cost

6 March 2024

SODA launched SDV Kit, marking a major milestone for the automotive industry. This is the world's first ready-to-use kit for Software Defined Vehicle creation.

SODA SDV Kit addresses the automakers critical demand for faster vehicle software engineering amidst shrinking budgets and traditional outsourcing to over 150 suppliers.

SDV Kit includes:

- AI-powered tools to assist engineers from requirements to certification.
- 200+ ready-to-use vehicle features with requirements, architecture, software and tests.
- Electrical/Electronic (E/E) architecture with SODA-approved Electronic Control Unit (ECU).
- Full range of vehicle and systems engineering services to support development needs.

SDV Kit empowers automotive innovators to develop vehicle software 2x faster, reducing the time-to-market for new vehicle models with 4x less cost, with no compromise on quality, safety, and security.

SDV Kit is made for:

- Automotive Startups seeking to balance ambitious goals with moderate budgets.
- Established Automakers aiming to embrace Software Defined Vehicle approach and streamline software engineering processes.
- Bus Manufacturers needing to meet budget constraints and new regulatory standards.
- Autonomous Vehicle companies looking for comprehensive development platforms.
- Retrofitters enhancing user experiences with modern technology.
- Motorsport teams requiring rapid development and integration of advanced AI-driven software.

As the Software Defined Vehicle (SDV) market is projected to reach a staggering \$700 billion by 2034, SODA SDV Kit is the toolset in this gold rush, offering the 'shovels' needed for companies to 'mine' efficiently and effectively.

Beyond automakers, this innovation extends its benefits to the end-user; car buyers will enjoy faster releases of new models, seamless over-the-air updates and advanced vehicle features, turning cars into evolving living spaces on wheels.

Stratasys Software Improves Efficiency and Reduces Costs for Additive Manufacturing with Release of New GrabCAD® Packages

5 March 2024

Stratasys Ltd., a leader in polymer 3D printing solutions, announced it is launching two new software packages, GrabCAD Streamline Pro™ and a new version of GrabCAD Print Pro™ for PolyJet™. These packages bring the power of Stratasys' GrabCAD software to additional customers to help increase their efficiency and reduce costs through improved workflows.

The first version of GrabCAD Print Pro for FDM and SAF has increased hardware usage amongst some customers by 30-to-50 percent. Customers can better organize the front and backend of moving and processing parts, giving them more opportunity to scale up their additive manufacturing capabilities.

They can also accelerate time-to-market by facilitating rapid design iterations and reducing dependency on physical prototyping; reduce costs by eliminating expensive tooling and molds needed for traditional manufacturing; and remove geometric complexities that are not feasible with conventional methods.

These new software packages help customers across multiple industries, including automotive, aerospace and healthcare, take advantage of the complete Stratasys offering of solutions across hardware, software, and materials.

“Our software provides essential capabilities for scaling up additive manufacturing workflows,” said Victor Gerdes, Vice President, Software, Stratasys. “We are connecting users with a centralized platform, giving them more information to make data-driven decisions and providing them with the precision and detailing that can only come from additive manufacturing. Throughput, efficiency and applications are key to manufacturing, and these GrabCAD software packages will further advance adoption of additive manufacturing by delivering measurable results that display real business value.”

GrabCAD Streamline Pro™

The new GrabCAD Streamline Pro is a comprehensive workgroup software suite, powered by GrabCAD Print™. Designed to connect people, parts and printers, GrabCAD Streamline Pro reduces the effort in managing a company's entire fleet of Stratasys 3D printers from one platform. It creates the opportunity for secure, centralized software workflows for efficient part production at any scale, regardless of the number of printers or types of parts printed. In addition, GrabCAD Streamline Pro enables integration of Stratasys printers and GrabCAD Print with GrabCAD software partners, and a company's business systems. This thereby leads to higher efficiency, reduced cost and business process automation.

Some of the key features of GrabCAD Streamline Pro include:

- Advanced dashboards and analytics for AM Managers to have insights into printer and material utilization

- Real-time monitoring and customizable alerts for shop operators to stay informed about printer events
- Simplified tools for submitting, tracking, and consolidating 3D printing requests
- Automatic estimation and build preparation to minimize operator effort and help engineers and designers get their parts faster
- Cyber protection capabilities to shield Stratasys printers against network vulnerabilities, cyberattacks and potential business disruptions
- Open APIs and a flexible platform to integrate with other business systems, enhancing interoperability and scalability

GrabCAD Streamline Pro maximizes productivity, increases cybersecurity and optimizes software workflows, thereby making it essential for scaling 3D printing.

GrabCAD Print Pro™ for PolyJet™

Building off the successful launch of GrabCAD Print Pro for FDM and SAF, Stratasys is bringing the GrabCAD Print Pro package to its PolyJet technology. PolyJet is becoming more recognized in manufacturing, as it produces a high-quality finished product.

With GrabCAD Print Pro, manufacturers have advanced capabilities to allow for more large-scale additive manufacturing. GrabCAD Print Pro also has advanced features that support workflow automation, which leads to more sustainable repeatability, more consistent part accuracy and reduced prep time. Learn more about GrabCAD Print Pro [here](#).

“Many manufacturers have struggled with integrating additive manufacturing into their manufacturing ecosystem,” said Ryan Martin, Senior Director, Research, ABI Research. “For greater adoption, they need to add enhanced software solutions that will provide them with the necessary quality controls, repeatability, and scale. Software is a key to unlocking the next steps additive takes in becoming more mainstream in overall manufacturing.”

“We are focused on making additive work for our customers,” said Rich Garrity, Chief Industrial Business Officer, Stratasys. “They want solutions that provide quality, reliability, scalability and a clear return on their investment. Our software helps make additive manufacturing a viable option for today’s manufacturers by delivering real business value.”

Synopsys Launches Industry’s First Complete 1.6T Ethernet IP Solution to Meet High Bandwidth Needs of AI and Hyperscale Data Center Chips

29 February 2024

Synopsys, Inc. delivered a dramatic increase in bandwidth and throughput for data-intensive AI workloads with the industry’s first complete 1.6T Ethernet IP solution. Hyperscale data centers, a backbone in the era of pervasive intelligence, require high-bandwidth, low-latency chips and interfaces to process petabytes of data quickly. Synopsys’ new 1.6T Ethernet IP solution enables design teams to create the industry’s fastest chips for AI and data center networking applications.

Synopsys is enabling hyperscale data center providers, and the ecosystem that serves them, to future-proof their infrastructure via their silicon roadmap, using the industry's most extensive, interoperable, and proven IP portfolio:

"Massive artificial intelligence and machine learning workloads are accelerating the need for 1.6T Ethernet in data centers," said Ram Periakaruppan, vice president and general manager, Network Test & Security Solutions, Keysight Technologies. "The combination of Synopsys' new 1.6T Ethernet controllers and robust 224G Ethernet PHY IP and Keysight's IxVerify pre-silicon test solution are essential to helping customers design the world's fastest, most reliable system on a chip devices."

"Insatiable demand for high-speed data access is pushing hyperscale cloud providers to upgrade their networking infrastructure to maintain their competitive edge" said Keith Guetig, vice president of Product Management, Samtec. "With successful interoperability between this and many prior generations of Synopsys' high-quality Ethernet solutions and Samtec's high-speed FlyOver® cable assemblies, chip designers and system architects can reduce their design risk when developing the next generation of SoCs for cloud, AI, and 5G applications."

"With growing demands from large language modeling, HPC simulation, and AI training in hyperscale data centers, network boundaries are crossing over the Terabits per second threshold," said Peter Jones, chairman, Ethernet Alliance. "The availability of development tools capable of meeting these needs is critical to the success of next-generation Ethernet standards addressing this market."

"The massive compute demands of hyperscale data centers require significantly faster Ethernet speeds to enable emerging AI workloads," said John Koeter, senior vice president of marketing and strategy for IP, Synopsys. "Our complete IP solution for 1.6T Ethernet, pre-verified subsystems, successful ecosystem interoperability, and decades of expertise in developing and delivering the industry's broadest interface IP portfolio allow designers to confidently integrate the necessary functionality into their SoCs with less risk."

Synopsys Complete 1.6T Ethernet Solution

Synopsys' comprehensive IP solution, including new 1.6T MAC and PCS Ethernet controllers, 224G Ethernet PHY IP, and verification IP, accelerates time to market for AI and HPC networking chips. The complete 1.6T Ethernet IP solution optimizes hyperscale data center energy efficiency by reducing interconnect power consumption by up to 50% compared to existing SoC implementations. The new multi-channel, multi-rate Synopsys 1.6T Ethernet MAC and PCS Controllers decrease area by 50% and reduce latency by 40% by implementing a patented Reed-Solomon Forward Error Correction architecture, while helping ensure reliable data for Ethernet rates from 10G to 1.6T. The silicon-proven 224G Ethernet PHY IP delivers robust link performance with exceptional signal integrity and seamless ecosystem interoperability for multiple channel lengths. The industry's first Ethernet verification IP for up to 1.6T speeds, implemented in native SystemVerilog and Universal Verification Methodology, speeds time to first test.

Availability and Additional Resources

The Synopsys 1.6T Ethernet solution, including all components – 1.6T MAC and PCS Controller IP, 224G PHY IP for advanced processes, and Verification IP for 1.6T Ethernet – are available now.