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CIMdata News

Free Webinar on Sustainability & PLM

11 June 2024

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces an upcoming free educational webinar, “Sustainability & PLM: The Industrial Perspective.” The webinar will take place on Thursday, 11 July 2024, at 11:00 a.m. (EDT) and will last for one hour.

The escalating impact of global warming and key sustainability challenges is a critical concern for manufacturers worldwide. As these issues intensify, organizations prepared to lead in sustainable product design, manufacturing, and service will be strategically positioned to achieve positive top and bottom-line results in an increasingly low-carbon economy. Embracing sustainability is a moral imperative and a competitive advantage in today's evolving global market.

Product Lifecycle Management (PLM) is essential to accelerating the transition to a low-carbon economy. PLM enables companies to reduce their product carbon footprint (PCF) and integrate sustainability into their products, processes, and services from the start. By embedding sustainability into the product lifecycle, PLM helps eliminate waste and decarbonize products and services.

This free webinar will address the current sustainability-related challenges and share insights on how companies can leverage PLM to design more sustainable products, processes, and services. Attendees will learn how to achieve their sustainability goals and fulfill net-zero commitments through effective PLM strategies.

Attendees at this webinar will:

- Better understand the current state of global warming and sustainability.
- Learn key concepts in Designing for Sustainability (DfS).
- Be able to explain what a PCF is and why it is critical to companies transitioning to a lower-carbon future.
- Learn about sustainable sourcing.
- Be able to explain the importance of circularity from a material, product, and business model perspective.
- Understand critical regulatory issues and trends.
- Understand the importance of embedding sustainability within a PLM strategy.
- Learn why sustainability and profitability are not mutually exclusive.

According to Mark Reisig, a CIMdata Executive Consultant and Sustainability and Green Energy Practice Director, “Many organizations that CIMdata works with have made ambitious “net-zero” and other sustainability commitments. However, most lack the knowledge and

capabilities to achieve these targets while maintaining value for their stakeholders. Sustainability should be embedded in your product data and PLM strategy through each phase of the product lifecycle.”

Mark Reisig has over 40 years of experience in digital transformation, information technology, and engineering in the energy, aerospace, defense, automotive, industrial, shipbuilding, high-tech electronics, medical devices, and food & beverage industries. He has led digital initiatives in PLM, plant design, computer-aided design, and master data management for global businesses. Mark comes to CIMdata after an extensive career in PLM with GE, Federation, Oracle, Auto-trol Technology, Kraft-Heinz, Catalytic, Day & Zimmermann, and most recently, Aras, where he was the Vice President of Product Marketing.

Organizations transitioning to a lower carbon footprint and a more sustainable business model will find the information in this webinar pertinent and valuable. The webinar will also be of interest to people from every part of the organization, as sustainable products touch product design, manufacturing, sourcing, logistics, service, operations, and the supply chain.

During the webinar, attendees will have the opportunity to ask questions about the topics discussed. To find out more, visit: <https://www.cimdata.com/en/education/educational-webinars/webinar-sustainability-and-plm-the-industrial-perspective>. To register for this webinar, please visit <https://register.gotowebinar.com/register/7872981976461371231>.

Supporting Many Forms of Compliance with Aras Innovator – a CIMdata Commentary

12 June 2024

Ensuring only compliant products get to market. Fast!

Key Takeaways

- Regulatory compliance must be supported earlier in the product lifecycle to ensure products can be developed, produced, and distributed to their target markets faster.
- Compliance, which is often tightly coupled with other regulatory requirements like labeling or permitting, varies by industry, country, and product.
- Best-in-class compliance management solutions leverage commercial databases and support custom rules that validate product information as it is created minimizing waste, streamlining timelines, lowering costs, and improving time-to-market.
- Aras’ digital thread solution enables proactive compliance management for development, automates documentation for compliance audits, and supports advanced capabilities such as integration to an AI-based platform for managing requirements.

Introduction

Getting products to market faster is a common goal in most organizations. The benefits of doing this are well established, but execution is hard. Ensuring that all essential procedures are completed to satisfy product standards can be a meticulous and lengthy process.

Unfortunately, all it takes is a single missed compliance requirement and a product can become non-saleable. As an example of the consequences, a beverage company CIMdata worked with told the story of a supplier change that turned finished, ready-to-ship product into scrap. The new supplier did not have a Kosher certification for its ingredient, but the product it went into was certified Kosher. The beverage company realized the problem only after the product was manufactured and ready for shipment. Once the issue was identified, the product could not be sold and had to be scrapped. On the plus side, they avoided a recall, but all the investment such as working capital and production capacity was lost.

The Food and Beverage industry is not the only place with regulations. Some of the regulatory governing bodies in different domains include:

- Industry—US Federal Aviation Administration (FAA), US Food and Drug Administration (FDA), United States Department of Agriculture (USDA), European Union Aviation Safety Agency (EASA), European Medicines Agency (EMA), and European Food Safety Authority (EFSA)
- Safety—US Occupational Safety and Health Administration (OSHA), European Agency for Safety and Health at Work (EU-OSHA), US Centers for Disease Control and Prevention (CDC), European Centre for Disease Prevention and Control (ECDC), and US National Institute for Occupational Safety and health (NIOSH)
- Emissions—US Environmental Protection Agency (EPA), and European Environment Agency (EEA)
- Climate/Green—US Environmental Protection Agency (EPA), US Department of Energy (DOE), US Federal Trade Commission (FTC), and European Union Agency for the Cooperation of Energy Regulators (ACER)

There are many others that impact many industrial sectors. Clearly, regulatory bodies and evolving regulations are everywhere. Most recently, there is an emergence of new compliance requirements coming from Europe that will eventually impact most product organizations.

The European Union is spearheading a transformative initiative, the Digital Product Passport (DPP), which is integral to its Sustainable Product Regulation proposal and the European Green Deal. This innovative data exchange framework is designed to encapsulate information on product sustainability, environmental impact, and recyclability. Its primary goal is to enhance transparency and efficiency throughout supply chains, thereby bolstering product sustainability and championing the principles of a circular economy within the EU. The concept of a circular economy, as articulated by the Ellen MacArthur Foundation, has long been advocated by CIMdata. The DPP's reach extends well beyond European borders, necessitating compliance from suppliers and manufacturers worldwide to meet its stringent requirements if they want to sell products within the EU.

To comply with regulations, companies developing products treat regulations as requirements and incorporate them into specifications that describe the requirements that must be satisfied to deliver the product to customers. Ideally, requirements management solutions are used to perform this task, but it is often done in Microsoft Office documents (Excel, PowerPoint, and

Word) or siloed tools. Product planning, regulatory affairs, compliance, and quality teams are siloed in function and the tools they use to manage requirements. The complexity of development tasks such as design, simulation, and testing increase because the requirements are dispersed across various repositories, each with its unique interface. Due to this complexity, verification tends to happen late in the development cycle leading to expensive surprises when requirement misses are identified.

A further complication faced by companies is that regulations are not static. They evolve and can affect existing products. Companies need a robust way to assess the compliance of current products with new regulations.

Ensuring Speed to Market

The verification and validation elements of compliance management needs to shift left to ensure regulatory issues don't sabotage product launches.

Compliance Management Best Practices

As with other aspects of implementing PLM, eliminating silos by connecting data and processes generates value. Compliance can be compared to a dumbbell in terms of its lifecycle workload distribution. Initially, there is a significant effort to pinpoint the necessary compliance standards. Subsequently, towards the end of the lifecycle, extensive verification and validation are undertaken to confirm that the product fulfills these established requirements. In compliance management, it's crucial to advance or “shift left” the verification and validation processes to an earlier stage in the product lifecycle. By doing so, potential issues can be identified and resolved promptly, which helps minimize unexpected costs and delays.

In addition to shifting left, validation should happen in real-time. As a developer is inputting data into a model whether geometry, material, tolerance, or any other attribute, a tool should be consuming requirements and assessing the data input within the design context to ensure it is compliant. If it is not compliant, the data should be flagged, and recommendations made. Real-time feedback enables the developer to address issues while they are top of mind.

Integrating compliance and risk management with product data and processes forms what's known as the digital thread, powered by a [product innovation platform](#). This concept, extensively covered by CIMdata, hinges on the traceability of information through interconnected data. Such an environment allows for functionalities like change impact analysis, where a modification in a requirement, like an emission value, reveals all related components—ranging from parts to production plans. This traceability not only aids in informed decision-making but also provides a retrospective path to trace a product's history from conception to market, proving invaluable for resolving product challenges.

Compliance audits are an inevitable part of business operations, which can be daunting for companies. When data is connected and navigable, as in Aras Innovator, searches and reports can be easily developed or created on the fly to ensure auditors get the information required. Figure 1 shows a high-level view of what a left-shifted compliance process looks like in a modern manufacturing environment.



Figure 1 - Holistic View of how Compliance Management integrates with the Product Lifecycle (Courtesy of Aras)

To make this concept work, regulatory compliance must be integrated with processes across the enterprise, partners, and supply chain, i.e., via a digital thread. To create an effective digital thread a product innovation platform is required to manage data and processes to enable traceability.

Aras’ Approach to Compliance Management

Aras is a leading PLM and digital thread solution provider offering extensive support for various aspects of compliance management. Material data is a core attribute of part items. The data model can be extended to support additional commercial or proprietary attributes. Compliance checks can be configured into workflows to ensure compliance when parts and BOMs reach appropriate lifecycle states. Out-of-the-box, Aras provides support for material-based compliance requirements such as REACH and RoHS. BOM reports can show a color-coded report with compliance status.

As products become more electrified and software-driven, electronics content becomes core. Items within Aras Innovator can represent mechanical, electrical, electronic, software, and process industry items such as substances, ingredients, and recipes. Aras has had an integration into the IHS CAPS Universe database within the [Aras Component Engineering](#) solution for many years that contains a wealth of compliance data including REACH, RoHS, Certificates of Conflict Mineral compliance, and other important data needed to properly manage components.

Product and performance requirements are managed as structures of items within the Requirements Management solution and can be related to other structures as show in Figure 2 or in a model-based systems engineering (MBSE) context.

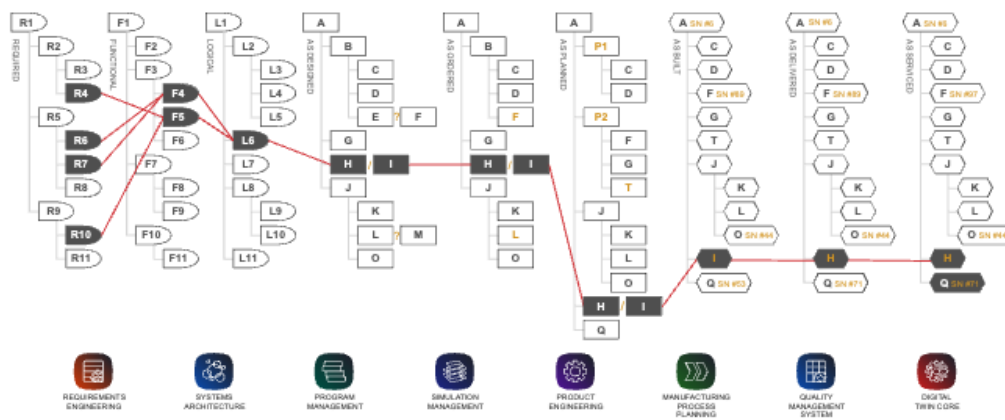


Figure 2 – A Structure-View of the Product Lifecycle (Courtesy of Aras)

The relationships between items and structures form the digital thread. This linkage along with navigation and reporting capabilities makes understanding compliance status a simple process. Digital thread compliance information is viewed in context of the overall product and development project improving decision making. CIMdata believes that accessing high-quality information fast is critical to enabling enterprise level innovation.

Aras' collaboration capabilities can be configured to support supplier, development partner, supply chain, and customer access as a holistic, secure ecosystem. Aras Innovator SaaS simplifies access control, and web services including SOAP, REST, and commercial integration technology support more complex connectivity. Aras recently released its [Aras Supplier Management Solutions](#) which includes access to the via the internet-facing Aras Portal ensuring that the extended ecosystem only accesses what they are supposed to access. Key capabilities of the solution include:

- Track Supplier Information, Contacts, and Monitoring
- Collaboration with threaded discussions
- Surveys and Performance Cards
- CAD/Part/Document Sharing
- Corrective Action and Negotiation Requests
- Aras Portal with mobile or desktop web interface

All data is connected via Aras' digital thread and can be configured to meet any special requirements via low code support. Additionally, Aras has long been known for its ability to upgrade any customer's configuration at no additional cost beyond the base subscription.

Aras, like most other solution providers, has an Artificial intelligence (AI) strategy. Aras' open data model and ease of integration make it an easy solution for 3rd parties to connect with. Within the compliance space, Fraunhofer an Aras partner is developing a solution that integrates with Certivity's Regulation Management database. Published regulations and proprietary standards are processed and managed and exposed in a consumable format. Product developers can find appropriate regulations that must be supported and the translated requirements are linked to Aras Innovator via ReqIF. The transformation of regulatory documents into consumable requirements is a huge help to product planning and development processes.

Customers

Compliance support with Aras Innovator is not just theoretical; several customers delivered compliance-related presentations at the recent [ACE 2024 event](#). SICK, a global manufacturer of industrial sensors uses Aras Innovator to ensure compliance with green regulations including CO2 output by encoding regulations in requirements and validating products against those requirements.

Edwards Lifesciences, known for their expertise in cardiac devices, has adopted the Aras platform to streamline global regulatory compliance and distribution. The platform effectively

oversees the entire lifecycle of a product, from production to global device registration, while also keeping track of post-market performance. This process ensures that products meet specific market criteria before they are sold. By continuously updating product certifications, Edwards can dynamically adjust their “Allowed to Sell” status, enhancing inventory control and minimizing the likelihood of recalls due to regulatory issues. CIMdata sees this customer-developed solution as a great example of leveraging compliance information using a low code development approach.

Conclusion

Regulatory compliance is a critical process in companies. Poor management of the process can negatively impact quality, cost, and time-to-market. Companies that sell products into global markets must ensure compliance continuously to avoid expensive surprises at launch or even post-launch. Converting regulations into requirements requires specialists in the regulatory domain. Best-in-class PLM solutions provide a platform to enable incorporation of necessary regulatory domains. Aras Innovator is one of those solutions that has a long history of enabling disparate database integration and digital thread enablement. Companies looking to apply the shift left strategy to regulatory compliance processes should evaluate Aras Innovator.

Acquisitions

Accenture Completes Acquisition of SOKO

11 June 2024

Accenture has completed the acquisition of SOKO, an independent Brazilian creative agency that develops brand stories with deep impact in society by blending creativity, data and a comprehensive understanding of culture.

The acquisition of SOKO, previously announced on May 2, 2024, adds approximately 300 employees to Droga5 São Paulo, deepening the agency’s influence and relevance in Brazil and Latin America, while strengthening the market’s creative and brand capabilities within Accenture Song—the world’s largest tech-powered creative group. SOKO co-CEOs Felipe Simi and Brisa Vicente are appointed CEO and creative chairperson, and co-CEO, respectively, for the agency. Also, former associated partner Felipe Belinky will be Droga5 São Paulo’s Chief Operating Officer.

Headquartered in Brazil’s largest city, São Paulo, SOKO specializes in brand storytelling that engages audiences organically. Through proprietary methodologies and metrics, the agency has successfully turned powerful ideas into strong brand engagement and impressions for its clients. The agency is also ranked as one of the top three advertising agencies in Brazil by SCOPEN for its excellence in innovation and creativity. Its creative work has also been recognized across the international award show circuit, such as The One Show, Clio Awards, The Effies, Fast Company and Cannes Lions. Ahead of this year’s Cannes Lions, SOKO and its work have been shortlisted within the highly coveted Titanium and Glass categories.

SOKO was founded in 2015 by Simi. His creative influence and activism have earned him the title of #1 most admired advertising executive in Brazil according to 2023 Agency Scope research; elected him "Advertising Game Changer" by Meio e Mensagem and nominated him for "Industry Leader" for Prêmio Caboré in 2022. He was also named by Wired Magazine as one of the 50 most creative people in Brazil in 2020.

Droga5 was founded in 2006 by David Droga, and is headquartered in New York, with offices in London, Dublin, Tokyo and São Paulo. With the acquisition of SOKO, Droga5 intends to accelerate its global mission of delivering creativity rooted in strategy and purpose, that is humanity-obsessed and where experiences deeply connect with people and add value to their lives.

IFS to acquire Copperleaf

11 June 2024

IFS, the leading technology innovator in cloud and Industrial AI software, announces it has entered into a definitive agreement to buy Copperleaf Technologies Inc..

As the most advanced provider of AI-powered enterprise Asset Investment Planning and Management ("AIPM") software, Copperleaf offers compelling capabilities that add further depth to IFS's position as the foremost global Enterprise Application Software provider for Asset and Service centric industries.

The combination of Copperleaf and IFS is highly complementary, offering organizations an unparalleled breadth and depth of software capabilities. Customers will have access to advanced Industrial AI-powered software to manage every element of the assets that are so crucial to their business – across their lifecycle – in order to drive efficiency and effectiveness in their operations.

Over two trillion dollars of physical and digital assets around the world are managed using Copperleaf software, which provides data and insights to help customers optimize decisions on where and when to invest in their business. Its software is relied upon by some of the world's largest and most respected organizations in the electricity, natural gas, water, energy, pharmaceutical and transportation industries such as: ONE Gas; one of the largest publicly traded, 100 percent-regulated natural gas utilities in the United States, Manitoba Hydro; one of the largest integrated electricity and natural gas distribution utilities in Canada, and National Grid; one of the world's largest publicly listed utilities.

Mark Moffat, CEO of IFS, commented: "IFS continues to build on its position as the global software leader for Asset and Service management, powered by Industrial AI. I am deeply excited about what Copperleaf brings to our extended customer offering. We combine two companies built on the same principles: world class innovative technology with unrivalled time to value, asset and industry expertise delivering exceptional ROI, and organizational cultures that have always put the customer at the center of everything they do."

Paul Sakrzewski, CEO of Copperleaf, added "I am incredibly proud of the work Copperleaf has done to establish and create the business we have today. Our market-leading solution is now

utilized by many of the largest and best run asset owners in the world. Our next phase of growth as part of IFS will enable us to accelerate even faster, and offer customers even greater capabilities, thanks to shared values and a commitment to delivering the most advanced and commercially impactful software asset-owners could need.”

Darren Roos, Chair of IFS, added “the combination of Copperleaf and IFS creates compelling value for the complex, asset-intensive customers we serve as well as partners, investors and employees”. Amos Michelson, outgoing Chair of Copperleaf, also added: “The acquisition is recognition of the investments, and many years of hard work, that have been put into making the business the success it is today. I am confident that the company’s future as part of IFS will offer opportunity and growth for all.”

Completion of the transaction is subject to customary conditions, including court approval, approval of the Copperleaf shareholders and regulatory approval under the Canadian Competition Act. Subject to the satisfaction of these and the other conditions to closing set out in the arrangement agreement, it is anticipated that the acquisition of Copperleaf will be completed in the third quarter of 2024.

NTT DATA Acquires Majority Stake in ProvenTech

11 June 2024

NTT DATA Business Solutions AG, a company of NTT DATA and a leading global IT service provider focused on the mid-market and SAP, announces the acquisition of a majority stake in ProvenTech Pvt Ltd, Hyderabad, Telangana, India. ProvenTech is specialized in providing cutting-edge GenAI-driven Quality Management and Manufacturing solutions to Pharma, Healthcare and Food industry, leveraging its own products, SAP® S/4HANA and other enterprise software. Founded in 2020, the company offers a unique and comprehensive portfolio including its own SaaS solutions, automation, integration and advisory services to meet the diverse needs of the pharmaceutical industry. ProvenTech is dedicated to transforming shopfloor processes with advanced technologies such as SAP BTP and DataSphere, enabling companies to quickly capture and leverage new opportunities and innovations.

NTT DATA Business Solutions Private Limited, the Indian subsidiary, and ProvenTech have been collaborating for the past couple of years. By combining ProvenTech's specialized capabilities with NTT DATA's global presence, the acquisition will expand the market reach and innovation of both companies in the Life Sciences sector.

"Together with ProvenTech, we can play a leading role in the pharmaceutical industry. They have industry-specific niche skills, advanced technical expertise and an innovative product portfolio," says Norbert Rotter, CEO of NTT DATA Business Solutions and EVP NTT DATA, Inc. "With this acquisition, we are accelerating our growth ambitions in India. At the same time, it is in line with our strategy to continue to expand successfully in our focus industry Pharma/Life Science. I am confident that ProvenTech's deep expertise and their own software products will be an excellent complement to our SAP offerings across multiple regions."

ProvenTech has a diverse portfolio of products and services tailored to the unique needs of the pharmaceutical industry. The offered solutions ensure seamless integration and optimal

performance in critical manufacturing and quality process areas, significantly improving operational efficiency and compliance using Pharma / Industry 4.0 technologies.

"ProvenTech's outstanding product portfolio and innovative approach to the pharmaceutical sector are a perfect fit with our strategic vision to optimize the cross-selling of SAP ERP with enhanced pharmaceutical solutions in India and APAC," says Sanjeev Deshpande, Managing Director – India, EVP – Head of APAC Region at NTT DATA Business Solutions. "Together, we aim to offer comprehensive solutions to our pharmaceutical and healthcare customers. In doing so, we can count on ProvenTech's in-depth industry and Data Science expertise proven by serving many renowned Fortune 500 customers."

With the acquisition, a team of more than 350 skilled professionals will extend the 15,300+ employees of NTT DATA Business Solutions. The service offerings of the two companies will be expanded into new pharmaceutical segments to improve both competitiveness and market reach. The global network of NTT DATA with the additional expansion of the NTT Group is intended to serve this purpose.

"Joining the forces with NTT DATA provides us with an exceptional opportunity to scale our operations and extend our global reach," says P. Raju Venkata, CEO of ProvenTech. "I am very much looking forward to working together as one team and to the new opportunities that lie ahead of us."

ProvenTech will become a subsidiary of NTT DATA Business Solutions Private Limited in India and will operate as an independent company after the acquisition, using the brand name "ProvenTech, an NTT DATA Company".

QHP Capital-Backed Pro-ficiency Acquired by Simulations Plus

12 June 2024

QHP Capital, L.P. ("QHP"), an investor in technology and services companies in the life sciences and healthcare sectors, announced its sale of Pro-ficiency, LLC ("Pro-ficiency" or the "Company"), a leader in providing tech-enabled training and compliance solutions for clinical trial investigators and site staff, to Simulations Plus, Inc. (Nasdaq: SLP) ("Simulations Plus"), a leading provider of modeling and simulation software and services for pharmaceutical safety and efficacy.

Michael Raymer, Chief Executive Officer of Pro-ficiency, said, "We are excited to join the Simulations Plus team, which has a well-established and recognized leadership position in modeling and simulations within the pharmaceutical and biotech community. Both teams approached this transaction with a growth mentality. We look forward to leveraging Simulations Plus' specialized offerings and business development infrastructure to expand our combined market reach. Finally, our operations are complementary, our cultures are aligned, and together we believe we can elevate the performance of our mutual clients as well as attract new ones with our end-to-end solutions."

QHP Capital made its original investment in Pro-ficiency in 2021. The Company then completed several additional acquisitions in the investment period with Fugitive Labs, LLC in 2022 and Compass Group Partners in 2023.

"We are very pleased with the growth and innovation we have seen these past few years at Pro-ficiency. We are excited to see them continue to improve clinical development as part of the SLP offering," said Michael Sorensen, Partner at QHP Capital.

Company News

'Girls in STEM' Mentor Program Empowers Middle School Students in Houston

7 June 2024

The 'Girls in STEM' mentor program, a collaboration sponsored by bp and Infosys Foundation USA, recently concluded its successful 10-week mentoring program aimed at inspiring middle school girls to pursue careers in science, technology, engineering, and mathematics (STEM). The program engaged students from West Briar Middle School in Houston Independent School District (HISD) and several Alief Middle Schools, providing them with valuable insights and hands-on experiences.

Throughout the program, employees from bp and Infosys volunteered their time to mentor the young participants once a week. The mentors shared their expertise, experiences, and passion for STEM fields, guiding the students through the Learning Blade platform to explore various STEM careers. Additionally, the participants were connected with the Million Women Mentors initiative, fostering a supportive network of women in STEM.

To celebrate the program, a day-long event was organized at the bp office in Houston. Over 100 girls had the opportunity to interact with young women engineers and computer scientists. The event showcased exciting demonstrations, including robots, virtual reality experiences, and tower-building activities, providing the students with a fun and interactive learning environment.

"At bp, we want to represent the world around us and make a positive contribution to the societies and communities where we operate. We are thrilled to support the 'Girls in STEM' program in collaboration with Infosys Foundation USA to help inspire and encourage girls and young women to explore careers in science, technology, engineering, and math, and hopefully empower the next generation of female leaders in these important STEM fields." said **Salem Seyoum, business advisor, EVP innovation & engineering, bp.**

"The Infosys Foundation USA is proud to collaborate with bp on this first-ever corporate collaboration 'Girls in STEM' program. By providing mentorship and hands-on experiences, we aim to ignite the passion for STEM among middle school girls and pave the way for their future success in these fields. Together, we can make a meaningful impact on closing the gender gap in STEM professions and awaken the future generation to the importance of digital skill building." said **Katherine Maloney, Executive Director, Infosys Foundation USA.**

“We are incredibly grateful for the support from bp and Infosys Foundation USA in bringing the ‘Girls in STEM’ mentor program to our students. This initiative has provided our middle school girls with invaluable opportunities to explore STEM careers, engage with industry professionals, and envision a brighter future filled with endless possibilities. The impact of this program will undoubtedly inspire our students to pursue their passions and excel in STEM fields.” said **Ms. Cherranda E.A. Smith, Houston Independent School District Community Relations Liaison.**

The ‘Girls in STEM’ mentor program has not only equipped the students with first-hand insights about opportunities in technology; but also inspired them to pursue their interests in STEM fields with confidence and determination. Many girls gave the program a very high post-program rating and said that they learned about careers they did not consider previously. With the support of bp and Infosys Foundation USA, the program’s positive impact will live on in the lives of these young future leaders in Houston and beyond.

Accenture Announces Leadership Appointments

11 June 2024

Accenture announced the appointment of new leaders who have been helping advance its strategy to reinvent companies in the age of AI and drive long-term growth for Accenture. Drawing on a strong bench of internal leaders, Accenture is making the following key appointments:

- Angie Park, Lead, Business and Commercial Finance, and former Head of Investor Relations, will become Chief Financial Officer on December 1, 2024, and will join the Global Management Committee. She succeeds KC McClure, who is retiring after 36 years of service with Accenture. McClure will step down as CFO and member of the Global Management Committee on November 30, 2024, and retire on March 31, 2025.
- Mauro Macchi, Market Unit Lead, Italy, Central Europe, and Greece (ICEG) and a member of the Global Management Committee, will become Chief Executive Officer, Europe, Middle East, and Africa (EMEA) on September 1, 2024. He succeeds Jean-Marc Ollagnier, who will step down as Chief Executive Officer, EMEA and member of the Global Management Committee on August 31, 2024 to become Chair, EMEA.
- Angela Beatty, Global Lead, Talent, Rewards, and Employee Experience, will become Chief Leadership and Human Resources Officer on September 1, 2024, and will join the Global Management Committee. She succeeds Elyn Shook, who is retiring after 36 years of service with Accenture. Shook will step down as Chief Leadership and Human Resources Officer and member of the Global Management Committee on August 31, 2024, and will retire on March 1, 2025. She will then become an Accenture Luminary.
- Karthik Narain, Group Chief Executive, Technology, will add the responsibilities of Chief Technology Officer to become Group Chief Executive, Technology, and Chief Technology Officer, and Bhaskar Ghosh, Chief Strategy Officer, will add the responsibilities of innovation to become Chief Strategy and Innovation Officer, both on September 1, 2024. Narain and Ghosh succeed Paul Daugherty, who has held both sets of responsibilities as Chief Technology and Innovation Officer since he stepped down last

year as Group Chief Executive, Technology. Daugherty will retire on August 31, 2024, after a 38-year career at Accenture. He will continue to work with Accenture as a Senior Technology Advisor on a part-time basis.

- Atsushi Egawa, Market Unit Lead, Japan, and Ryoji Sekido, Technology Lead, Growth Markets, will become co-CEOs of Asia Pacific on September 1, 2024, as part of an evolution of the company's Growth Model into three Markets: The Americas (US, Canada and LATAM), which will be led by Manish Sharma, currently the CEO of North America; EMEA; and Asia Pacific. Sekido will join the Global Management Committee, and Egawa will continue as a member of the Global Management Committee. Leo Framil, currently the CEO of Growth Markets, will take a leadership role in Financial Services in the US and remain a member of the Global Management Committee.

"I am excited to announce the appointment of these exceptional leaders, each of whom brings deep experience at Accenture and has been at the center of our strategy to lead reinvention with our clients," said Julie Sweet, Chair and CEO, Accenture. "They will play a crucial role driving the next chapter of Accenture's long-term growth. I am deeply grateful to KC, Jean-Marc, Ellyn and Paul for their outstanding contributions and stewardship, including helping us prepare the next generation of leaders."

Leader Biographies

Angie Park, who is currently global lead for Business and Commercial Finance, will become Chief Financial Officer. Over a nearly 30-year career at Accenture, she has built deep experience as a Finance and Investor Relations leader through multiple market and economic cycles. Park brings deep and broad expertise in all areas of Finance; extensive knowledge of Accenture's business across clients, markets, services, industries and ecosystem partners; and strong, trusted relationships with the investment community. Previously, Park served as CFO for Accenture Technology Services and Investor Relations lead for six years, playing a key role setting financial strategy and communications.

Mauro Macchi, who currently leads Accenture's ICEG (Italy, Central Europe, and Greece) Market Unit and is a member of the Global Management Committee will become CEO, EMEA. Under his leadership, ICEG experienced very strong double-digit growth. As part of this growth, ICEG has been leading in significant reinvention programs at clients, and Macchi has led a number of strategic acquisitions to continue to expand growth opportunities. Macchi's 33-year tenure at Accenture includes European and Global roles, including serving as Strategy & Consulting Lead for Europe and Global Banking industry lead for Strategy.

Angela Beatty, who is currently Accenture's global lead for Talent, Rewards, and Employee Experience and has been at the firm for nine years, will become Chief Leadership and Human Resources Officer. Beatty's current role includes leading the company's talent strategy, and training and development, such as upskilling and recruiting to double Accenture's data and AI workforce over three years. She has broad and deep expertise in human resources that encompasses talent development, performance and talent management, employee experience, executive and broad-based compensation, organizational psychology and behavioral economics.

Karthik Narain joined Accenture in 2015 and was named Group Chief Executive, Technology in 2023. Previously he served as Lead, Accenture Cloud First, Data & AI and led Technology for its Communications Media and Technology industry segment and Technology in North America. Over his 25-year career, Narain has led numerous strategic and innovative programs across a variety of industry sectors, including Financial Services, High Tech and Software and Platforms.

Bhaskar Ghosh has been Accenture's Chief Strategy Officer since 2020, overseeing the company's strategy and investments, including ventures and acquisitions. He has served as an advisor on critical areas including growth and investment strategy, business performance, and organizational effectiveness. Previously, Ghosh was Group Chief Executive of Accenture Technology Services, directing strategy and investments, and leading platforms, products and global technology delivery.

Atsushi Egawa, who has led Accenture's Market Unit in Japan for nine years, will become co-CEO of the new Asia Pacific market. He has partnered closely with numerous global clients on their digital transformations and was integral in the opening of Accenture's Innovation Hub in Tokyo. Previously, Egawa was the lead for Accenture's Products industry group in Japan, with a focus on business strategy, business transformation and new business launches. He also has worked with clients in manufacturing, retail and other industries, including Communications, High Tech, Materials and Energy, Financial Services and Public Service. Egawa is a member of Accenture's Global Management Committee.

Ryoji Sekido, who is currently Technology Lead, Growth Markets, will become co-CEO of the new Asia Pacific market. For three years, he led Accenture's Cloud First business in AAPAC and Japan. In his earlier roles, he led several industry and technology teams and served as the Financial Services Client Service Group Lead and the Financial Services Technology Consulting Lead for APAC. Sekido will join Accenture's Global Management Committee.

Altair Expands its Presence with New Office in Downtown Thessaloniki, Greece

11 June 2024

Altair, a global leader in computational intelligence, has opened a new office in Thessaloniki, Greece. Located in the heart of downtown Thessaloniki, the office solidifies the country's status as hub for regional growth since opening its first Hellenic office in 2012.

"Altair's growth in Greece has skyrocketed and expanding our presence in Thessaloniki with a second office is further evidence that our work is making an impact for our customers, both locally and in Europe," said Lazaros Tsiaraklidis, managing director, Altair Hellenic.

"Additionally, our workforce in Greece has grown 140% in four years and we are excited to continue this upward trajectory to attract dynamic new talent and provide enhanced service to our clients."

The new location complements Altair's two other locations in Greece – in Athens and the outskirts of Thessaloniki – and is actively hiring for various positions including meshing and geometry developers, CAE and CFD engineers, global technical positions, interns, and more. In addition, the downtown office will enhance Altair's robust university collaborations, particularly with the Aristotle University of Thessaloniki. Furthermore, this expansion solidifies Greece's

status as a major hub for technical talent for Altair in the European/Middle Eastern (EMEA) region; 90% of Altair's EMEA technical team is based in Greece, including 80% of the existing personnel in Thessaloniki.

The new location in Thessaloniki will host Altair's EMEA Intern event, June 10-12, 2024. This vibrant gathering will host 20 talented interns from various EMEA countries, celebrating the diverse and dynamic nature of Altair EMEA Internship program. During the three-day event, interns will focus on five key pillars: learning Altair's global business, reinforcing Altair's culture and values, personal and professional development, community outreach, and networking. Under the theme, "Inspiring Innovators for Life," interns will participate in insightful workshops, networking opportunities, and interactive sessions with industry leaders, providing them with valuable experiences and connections.

Atos Group and Microsoft unite to accelerate client adoption of "RISE with SAP" on Microsoft Azure

12 June 2024

Atos Group, via Eviden, its business leading in digital, cloud, big data and security, announces a collaboration with Microsoft to launch a strategic initiative aimed at combining their expertise to accelerate adoption of "RISE with SAP" on Microsoft Azure.

The collaboration will focus on establishing a Dedicated Service Unit within Eviden which will leverage the combined industry expertise of Eviden and Microsoft in the Manufacturing, Energy & Utilities and Consumer Packaged Goods industries to provide clients with specialized services focused on expediting SAP S/4HANA transformation and Microsoft Cloud adoption under the "RISE with SAP" program. This initiative will help clients around the world to enhance value, drive innovation, and transform their digital journey.

Comprehensive Transformation Initiatives

The collaboration will facilitate the integration of "RISE with SAP" with advanced business and industry solutions. This includes a range of services from business value consulting to change, conversion, migration, run and innovation services within Eviden's Rise++ framework. It will also encompass agile and innovative platforms, alongside Digital Business Performance Management. It will help clients achieve seamless integration between SAP Business Technology Platform (BTP), collaborative SaaS components, Copilot for Microsoft 365, SAP Business AI, and GenAI capabilities. As a European leader in Managed Security Services, Eviden brings an advanced level of cybersecurity expertise, ensuring a fully secure Microsoft and SAP platform. These value-added solutions and services will bring customers tangible benefits in terms of innovations in data modernization, cybersecurity, and modern workplace transformation.

Silvio Bessa, SAP Business Head of Microsoft said: *"Our joint efforts with Eviden and SAP represent a significant leap forward in our mission to empower every organization on the planet to achieve more. By combining our strengths, we are not only accelerating the business*

transformation journey for our customers but also setting a new standard for what is possible with SAP RISE on Microsoft Cloud.”

Diane Galbe, Senior Executive Vice President, Atos Group said: “We are delighted to take the next step in our partnership with Microsoft on SAP. We will bring to this partnership our portfolio of cutting-edge technologies in advanced computing, cybersecurity, AI, cloud, and digital platforms, as well as the combined skills of our 95,000 experts of the Atos Group worldwide. We are confident that this digital transformation journey will enable customers using Microsoft Cloud as part of the “RISE with SAP” program to benefit from greater agility and flexibility, and ultimately help them drive innovation.”

This initiative is part of Eviden’s and Microsoft’s five-year global strategic partnership agreement announced in January 2024 to accelerate Cloud and AI strategies, and boost industry transformation. Atos Group has been working closely with SAP, in support of “RISE with SAP” on Microsoft Azure, since its launch in 2021 and was itself one of the first companies to migrate to SAP S/4HANA on Azure.

AVEVA announces at AICHEMMA a Strategic Collaboration Agreement with AWS to Drive Sustainable Industrial Transformation

10 June 2024

AVEVA, a global leader in industrial software, driving digital transformation and sustainability, has announced a Strategic Collaboration Agreement (SCA) with Amazon Web Services (AWS). Their enhanced collaboration will support industrial customers by enabling cloud delivery of the latest AVEVA applications as integrated, out-of-the-box Software-as-a-Service (SaaS) solutions.

AVEVA is collaborating with AWS to solve interoperability challenges with the help of Artificial Intelligence (AI). The lack of workability across data models can be a barrier for customers interested in digital twins, while creating data models is costly and time-consuming. AVEVA and AWS are looking to create mapping capability on AWS platforms, which could decrease time-to-value, while reducing data management complexity across data silos and industrial data standards.

The AVEVA AWS SCA brings substantial value to its customers. The collaboration with AWS enables AVEVA to further extend its advantages across various industries, such as chemicals and food and beverage, making its solutions more accessible than ever.

With AVEVA’s transition to cloud-based solutions, access to affordable and agile technologies is enhanced across all industry sectors. This ongoing transformation underscores AVEVA’s commitment to democratizing access to advanced engineering solutions and leveling the playing field for businesses across all industries.

Cloud-based interoperable solutions will help drive faster performance for our customers. Processes will be expedited to weeks from months, significantly reducing time-to-market for our existing customers.

Furthermore, cloud-based solutions eliminate the need for extensive IT involvement and maintenance, paving the way for faster innovation cycles and streamlined deployment processes.

Companies all around the world are already benefitting from AVEVA and AWS solutions. Take, for example, Norway's Aker Carbon Capture, which designs and builds facilities for companies in carbon-intensive industries, such as cement, steel, and oil and gas. AVEVA's Unified Engineering in the cloud helps Aker Carbon Capture create efficient and replicable designs for carbon capture units, and AVEVA's AWS-based software allows teams to collaborate across time zones, resulting in an increase in operational efficiency and time to market by over 50%.

AtACHEMA, the world's top processing technology show, AVEVA is showcasing how a digital transformation strategy can tackle energy security while meeting net-zero commitments. At the AWS stand (Hall 11, Booth E81), AVEVA is demonstrating that digital innovation and sustainability are two sides of the same coin.

Dr Tobias Schelee, Sr. Vice President, Products, AVEVA, said: "With disruption being the new normal, industrial organizations must contend with various challenges, from supply chain limitations to growing competition and labor scarcity. Thanks to our strong relationship with AWS, AVEVA is helping industrial customers leverage AI and cloud technologies to enhance real-time collaboration, seamlessly integrate information, run sophisticated analyses, and ultimately achieve an interconnected system that transcends individual silos for powerful performance."

Uwem Ukpong, AWS VP Global Services, commented: "The strategic collaboration between AWS and AVEVA enables industrial companies to get to the next level of collaborative engineering and value creation. Together, we offer our customers a flexible and secure environment for cloud-based engineering to be enhanced by generative AI."

AVEVA has also achieved AWS Manufacturing and Industrial Competency Partner status, recognizing the company's expertise in providing professional services and software solutions for industrial manufacturing. As an AWS Manufacturing and Industrial Competency Partner, AVEVA follows best practices to build secure, resilient and efficient cloud infrastructure for industry applications.

AVEVA and AWS are helping to enable the transformation of the industrial sector by delivering differentiated, innovative solutions that will shape a globally sustainable future. In addition to achieving the AWS Manufacturing and Industrial Competency, AVEVA is also one of fewer than ten AWS Energy Competency Partners in the New Energies category.

AVEVA leads on sustainable innovation and collaborates with partners like AWS to drive sustainable innovation, aiming for a net-zero world. Leveraging the extensive service capabilities and AVEVA's tailored industrial SaaS solutions, enterprises efficiently manage energy needs, optimize operations, and measure emissions in alignment with sustainability goals. This approach fosters agility and resilience in a dynamic market.

Bechtle announces new Supervisory Board member and higher dividend

11 June 2024

Shareholders have elected a new member of the Supervisory Board at the Bechtle AG Annual General Meeting. In Stephanie Holdt, an experienced finance expert is joining the board to replace Elke Reichart, who has stepped down after nearly seven years for professional reasons. The Chair of the Supervisory Board, Klaus Winkler thanked Elke Reichart saying: “We are very sorry to be losing Elke Reichart on the board and I would like to thank her for her dedication and valuable contributions during her tenure.” The AGM also approved the proposed dividend of €0.70 per share—the 14th increase in a row—and also agreed on all remaining agenda items.

Listed on the MDAX, Bechtle’s AGM this year welcomed 500 shareholders, over 100 students and other guests to the Harmonie congress centre in Heilbronn. An important point on the agenda was the election of a new member of the Supervisory Board. Stephanie Holdt, Chief Financial Officer at the Voith Group used the opportunity to introduce herself to the shareholders and underscore her eagerness to fill the role. After her election, she thanked the shareholders for their trust, stressing: “I’m delighted to take up this position and am looking forward to contributing to sustainable development at the company. Bechtle is in an excellent position and will play a decisive role in its customers’ successful digital transformation by delivering future-facing IT solutions.”

Stephanie Holdt is replacing Elke Reichart, who is stepping down after close to seven years on the Bechtle AG Supervisory Board to focus on her role as Chief Digital and Sustainability Officer at Infineon Technologies. Stephanie Holdt does not currently hold any other positions on a supervisory board. “As a new member of the Supervisory Board, I’m very excited to support the company in this very dynamic environment, and I’m also incredibly grateful and proud to contribute my experience in manufacturing, financial and digital industries to a fast-growing and innovative company like Bechtle,” says the 45-year-old.

Fourteenth dividend increase

The AGM also approved a proposal made by the Executive and Supervisory Boards to raise the dividend by 7.7%—an increase above that of earnings after taxes—which sees shareholders enjoying an above average share in the company’s success. The payout ratio of 33.2% is up slightly from 32.6% yoy meaning Bechtle is continuing its long-standing policy of paying out around a third of its earnings after taxes to its shareholders. “Increasing the dividend is above all a sign of our confidence in Bechtle’s continuing positive growth,” says Dr Thomas Olemotz, CEO at Bechtle AG.

Forecast for the year 2024 confirmed

After a good first quarter and based on the expectation that demand will pick up in the second half-year, Bechtle confirmed its forecast for the 2024 fiscal year first published in March. The IT service provider anticipates revenues to grow by between five and ten per cent. “We are encouraged by the fundamental trends that are prevalent and remain intact in the IT industry. Despite the challenging economic climate, there is plenty of scope for growth in fields in which

Bechtle has carved out a robust market position,” stressed Dr Thomas Olemotz in his keynote to the AGM.

Bluebeam Announces Partnership with Suffolk Technologies for BOOST 5 Program

10 June 2024

The highly competitive Suffolk Technologies BOOST program gives startups direct access to jobsites, unparalleled operational knowledge, and an expansive network of industry leaders

Bluebeam is proud to partner with Suffolk Technologies, the venture capital affiliate of Suffolk, for its fifth annual BOOST program. This intensive eight-week program is designed to ignite growth and equip pioneering startups in the built world with the right tools to transform the industry.

Throughout the intensive eight-week program, the selected startups will be launched into the built environment with direct access to jobsites and testbeds around the world, as well as an influential network of industry leaders and academics. As an Operating Partner, Bluebeam will work alongside these startups, providing product feedback, industry expertise, connections, and opportunities to test their technology in the field.

“In the fifth year of BOOST, we’re excited to harness the powerful ecosystem that’s emerged around this program over the past few years,” said Parker Mundt, Vice President of Platform for Suffolk Technologies. “Our 25 alumni remain deeply involved, alongside more than two dozen global Operating Partners and a network of industry advisors who’re excited to engage with innovators in our space. Together, they’ll play pivotal roles in guiding our new BOOST 5 cohort. We believe this group is poised to create exciting new opportunities for efficiency, cost savings, sustainability and so many other benefits for the industry as a whole.”

Startups that have participated in BOOST over the past several years have benefitted greatly from the program, with the first four cohorts collectively raising more than \$505 million of venture funding after completing the program. BOOST alumni companies include startups such as CANVAS, Moxion Power, Passive Logic, Wint, Rugged Robotics, Exodigo, and Trunk Tools.

“It’s a profound experience to grow a company from inception, and Bluebeam is proud to be among those sharing insights to innovative startups during this critical business phase,” said Don Jacob, Chief Innovation Officer and one of the founding members of Bluebeam. “The AEC industry was in a much different place when we started out in 2002, and like many technology startups, Bluebeam was scrappy. Working with early-stage companies in the BOOST 5 program is a wonderful way to pay it forward, and we’re eager to share our learnings to help them make informed business decisions that will propel them and the built world toward further success.”

The application window will close at 11:59 p.m. (PDT) on June 15, 2024. Suffolk Technologies will invite a select group of applicants to participate in an interview process for a coveted spot in this year’s program. Successful applications will highlight team collaboration, well-defined industry challenges that can be solved by innovative technologies, and bold visions for the future of the built environment.

Digital Twin Consortium Welcomes MongoDB as a Member

11 June 2024

The Digital Twin Consortium® (DTC™) announced that MongoDB has joined the consortium. MongoDB's developer data platform helps organizations drive innovation at scale by providing a unified way to work with data that addresses transactional workloads, app-driven analytics, full-text search, AI-enhanced experiences, streaming data, and more. Adding MongoDB to the consortium simplifies access to its developer data platform for DTC's network, creating digital replicas of physical assets, processes, and systems through bi-directional data and information synchronization.

"Joining the Digital Twin Consortium and its network of industry leaders allows MongoDB to help more organizations leverage real-time data and AI for improved decision-making, optimization, and innovation," said Dr. Humza Akhtar, Principal of Industry Solutions for Manufacturing and Motion at MongoDB. "MongoDB's developer data platform can play a part in enhancing the development and prevalence of digital twin technology to ensure the technology solves real-world challenges and powers smarter applications across industries."

"We're excited to have MongoDB join the DTC," said Dan Isaacs, DTC GM, and CTO.

"MongoDB's distributed scalable architectures and diverse data type management are ideally suited for a wide range of digital twin applications. Their experience in streamlining software development and AI-infused applications will help to further the adoption of digital twins."

DXC Technology Commits to Achieve Net-Zero Greenhouse Gas Emissions for Direct Operations by 2050

11 June 2024

DXC Technology, a leading Fortune 500 global technology services provider, announced its commitment to achieve net-zero Scope 1 and 2 greenhouse gas emissions by 2050. This reaffirms DXC's effort to make positive and meaningful contributions to reduce the ongoing threat of climate change by addressing its carbon footprint.

The commitment expands on DXC's near-term target to reduce greenhouse gas emissions 65% by 2030 against its fiscal year 2019 baseline, which has been validated by the Science Based Targets initiative (SBTi). DXC is part of SBTi's network of more than 5,000 global companies that have set emissions reduction targets through the SBTi.

"We are strongly committed to renewable energy utilization, energy efficiency actions and site consolidations to reduce our carbon footprint as well as operating costs without disrupting customer service operations," said Jim Brady, Executive Vice President and Chief Operating Officer at DXC Technology. "Additionally, our hybrid work location business model empowers our global teams to work remotely, significantly reducing our facility footprint and supporting our commitment to lowering carbon emissions in the coming years."

Since 2019, DXC has reduced energy consumption by 44%, a result of site consolidations and efficiency efforts, which contributed to Scope 1 and 2 greenhouse gas emission reductions of

58% over the same time frame. Just over a third of energy used in DXC operations is procured from renewable energy sources.

DXC has cut emissions significantly since 2019 and helped customers do the same as part of its commitment to help make a positive impact on sustainability for customers, the community, and its colleagues.

Hexagon and Paperless Parts Slash Quoting Times for America's Precision Manufacturers with Advanced Software Solutions

4 June 2024

At Paperless Parts' annual user conference, POWER, Hexagon's Manufacturing Intelligence division and Paperless Parts announced a strategic partnership designed to accelerate the adoption of modern quoting software by forward-thinking custom part manufacturers.

Through its broad portfolio of products and top-tier customer service, Hexagon has become synonymous with high-quality, industry-tested solutions across the entire manufacturing lifecycle. Similarly, forward-thinking shops have abandoned antiquated quoting methods in favor of Paperless Parts, which leverages geometric interrogations, automated pricing and costing logic, Artificial Intelligence (AI), and advanced workflow technology to revolutionize the quoting process. Through this partnership, Hexagon and Paperless Parts can equip tech-forward manufacturers to increase revenue, drive operational efficiency, and leverage modern software solutions to make American manufacturing more competitive and profitable. Paperless Parts will also soon be available to Hexagon customers on the Nexus Digital Reality Platform, an open cloud-based platform designed to connect technologies from both Hexagon and its partner ecosystem.

"We've been a long-standing user of both Hexagon and Paperless Parts software, and what unites those two companies is a common vision and understanding that technology can be a major differentiator for today's manufacturers, which motivated me to originally introduce their leadership teams to each other," said Bill Berrien, CEO of Pindel Global Precision, a Wisconsin-based manufacturing company. With over 90,000 square feet of manufacturing and engineering space, Pindel is a global leader focused on providing custom, precision-machined components and assemblies. "Both companies make the success of their customers their number one priority and have taken the time to ensure their products are specifically tailored to the unique demands of custom part manufacturers."

"As shops look to modernize, they aren't just focused on the shop floor; Paperless Parts has had a dramatic impact on the performance of hundreds of shops nationwide by overhauling the quoting process and connecting the many parts of a shop that impact estimating into a single, unified, modern quoting platform," said Patrick Welch, vice president software sales North America for Hexagon's Manufacturing Intelligence division. "We want to extend those benefits to the thousands of sheet metal manufacturers, machine shops, and custom part manufacturers we work with today."

Together, Hexagon and Paperless Parts will help job shops optimize processes across their operations, from quoting to downstream manufacturing and inspection. Busy shops that struggle to keep up with a backlog of quotes can lose bids or rush into unprofitable projects. Modern quoting solutions offer consistent costing and pricing and make it easier to onboard new estimators to their team.

Through the integration with the Nexus Digital Reality Platform, this partnership will also empower smaller machine shops to better compete, fast-tracking their digital transformation journey through a connection to the cloud that enables enhanced automation, data collection & visibility, and improved collaboration. Manufacturers can benefit from Nexus by simply connecting their existing tools and equipment, enabling a more connected ecosystem within their own shop.

This partnership is a recognition of Hexagon's deepening support for custom part manufacturers and small and mid-sized machine shops. To that end, the company has recently released an online Technology Benchmark tool for Machine Shops, designed to support machine shops as they transition from paper-based operations to digital innovation. The benchmarking tool enables shops to evaluate their performance against seven key focus areas where digital solutions can have a transformative impact on overall profitability and performance, including 1) Quoting and Planning, 2) Design & Review, 3) Manufacturing preparation, 4) Manufacturing, 5) Shop-Floor Operations, 6) Quality Inspection, and 7) Reporting. It can be leveraged free of charge, and will provide machine shops with a ranking against their peers in the market, insight into where they are in the evolution process, suggested areas of improvement, and other benchmarks.

“Hexagon is a widely respected and trusted brand in manufacturing that has helped manufacturers compete globally for decades, and the fact that they've specifically called out quoting as a key area that is in dire need of modern, software-based solutions, is a demonstration of our aligned vision. This partnership is an endorsement of Paperless Parts' impact on the American supply chain and in particular,” said Jason Ray, Founder and CEO of Paperless Parts.

LTIMindtree strengthens presence in Saudi Arabia

11 June 2024

LTIMindtree announces the inauguration of its regional headquarters in Saudi Arabia's capital, Riyadh, as part of the expansion in KSA and the Middle East.

The opening of this office is in line with the KSA government's Regional Headquarters Program and a key milestone enabling LTIMindtree to support, manage, and direct its strategic business initiatives in the region. This also aligns with KSA's wider vision for 2030, strategy for economic diversification, development, and growth.

This new office, situated in Riyadh's iconic business district and lifestyle destination, King Fahd Road, was inaugurated on June 11, 2024, in the presence of Dr. Suhel Ajaz Khan, the Ambassador of India to the Kingdom of Saudi Arabia; Tareq Amin, CEO, Aramco Digital; and Debashis Chatterjee, CEO & MD, LTIMindtree.

Debashis Chatterjee, CEO & MD, LTIMindtree, said, “Saudi Arabia is a key market for the future of IT, and our expansion upholds our commitment to bringing innovation here. We believe Saudi Arabia’s ambitious Vision 2030 provides an ideal framework for us to leverage our extensive technology expertise and help empower the Kingdom’s talent and technological landscape. The opening of this office is a key milestone, enabling us to support, manage, and direct our business in the MENA region.”

Tareq Amin, CEO, Aramco Digital, “The new office marks a significant step forward in our shared journey towards progress. This collaboration is a testament to the growing global interest in Saudi Arabia as a hub for cutting-edge technology and talent. We look forward to this partnership’s positive impact on our economy and the opportunities it will create for our people.”

OpenText Receives 2024 SAP Pinnacle Award in the Partner Solution Success Category

6 June 2024

OpenText™, the information company, announced that it received a 2024 SAP® Pinnacle Award in the Partner Solution Success category, which recognizes its outstanding contributions as an SAP partner. SAP presents these awards annually to the top partners that have excelled in developing and growing their partnership with SAP and helping customers run better. Winners and finalists in 26 categories were chosen based on recommendations from SAP, customer feedback, and performance indicators.

“The SAP Pinnacle Awards showcase the outstanding contributions of our ecosystem throughout the entire customer value journey. Winning partners are recognized for successfully enabling their customers to bring out their best through innovative cloud services and solutions,” said Christian Klein, CEO and Member of the Executive Board of SAP SE.

“Together, SAP and OpenText help world-leading organizations accelerate their cloud-based digital transformation to be stronger, faster, and more intelligent,” said Mark J. Barrenechea, OpenText CEO & CTO. “We are honored to receive the SAP Pinnacle Award for the 19th time in 17 years. This long-standing recognition reinforces our commitment to providing innovative solutions that enable thousands of enterprises to redefine the knowledge worker, re-define processes with the help of AI, and reimagine compelling employee experiences.”

Building on a 30-year partnership with SAP, OpenText serves over 11,000 customers and six million subscribed cloud users in more than 120 countries. OpenText solutions for SAP help customers maximize their investments in a wide range of SAP technologies. The OpenText embedded suite of SAP solutions from archiving to content capture to custom solutions for HR, Engineering, Invoice Management focuses on helping customers improve process efficiency while minimizing governance and compliance risks. In addition, OpenText DevOps solutions also help customers drive efficient testing and lifecycle management of their SAP application as they move to the cloud. Lastly, OpenText Experience solutions compliment SAP workflows with the ability to manage media files and customer communications at scale for complex compliance-oriented industries.

In addition to receiving the SAP Pinnacle Award for Partner Solution Success, this year OpenText received SAP Regional Awards for Partner Excellence for Solution Extensions in Middle and Eastern Europe (MEE), EMEA North, EMEA South, and APJ.

SAP Pinnacle Awards shine a spotlight on distinguished partners to acknowledge their dedication to teamwork, exceptional innovation, and capacity to help customers achieve their goals.

Pioneering Digital Solutions for Complex Manufacturing: LTIMindtree's Strategic Partnership with SAP

4 June 2024

LTIMindtree has expanded its partnership with SAP, a leading provider of enterprise application software, to deliver innovations for complex manufacturing industries. The collaboration aims to tackle the unique challenges of this sector, offering streamlined solutions that enhance efficiency, reduce costs, and ensure seamless upgrades.

Today, manufacturers are building increasingly complex products, often tailored to their customers' unique functional requirements, while competing in an increasingly fast-paced economic environment. The alliance focuses on utilizing SAP's advanced technologies, including SAP BTP and SAP Business AI, integrated with GROW with SAP solution. These tools are designed to provide a foundation that simplifies upgrades, like moving to SAP S/4HANA Cloud, while also offering pre-built extensions for complex manufacturing processes.

Vineet Moroney, SVP and Global Head of Enterprise Applications, LTIMindtree emphasized the strategic nature of the partnership: "By focusing on simplifying core business processes and transforming with SAP BTP extensions and AI solutions, we are setting a new standard in the industry. Our extensive experience with complex manufacturing processes positions us uniquely to create purpose-built impactful solutions for our clients."

Reflecting on the collaboration, Jan Gilg, President and Chief Product Officer, Cloud ERP, SAP stated, "LTIMindtree is one of our strategic SAP Cloud ERP partners who has a proven track of record in delivering customer-focused solutions globally. They bring the business process extension to SAP Cloud ERP with the depth of their business knowledge and experiences for our customers that drive complex engineer-to-order and project-driven manufacturing processes."

Rebecca Koch to join the Nemetschek Group as Chief People Officer

12 June 2024

The Nemetschek Group announced that Dr. Rebecca Koch has been appointed as its Chief People Officer, joining the organization as of September 1, 2024. In this role, she will be responsible for further evolving the Group's global people organization strategy and operations with a particular focus on culture, leadership, collaboration and sustainable business growth. With more than 15 years of experience in international business and HR leadership roles, she brings in a holistic perspective on people and business challenges such as digitalization, transformation and M&A.

Rebecca Koch joins the Nemetschek Group with broad experience in HR, business and consulting roles. In her last position at DB Schenker, she was Chief People Officer Europe and was looking after around 45,000 employees. Her extensive experience also includes several HR leadership roles at the US medical technology company Becton Dickinson, where she was most recently responsible for Talent & Culture in the Greater Asia region, based in Singapore. She started her career at Bain & Company and recently completed the International Directors Program at INSEAD. In recognition of her achievements, Rebecca Koch was named one of the Top 40 Thought Leaders in HR in Germany by "Personalmagazin" in 2023, among others. She has also been a member of "Generation CEO e.V." since 2018. As an advocate for responsible entrepreneurship and future skills development, she also serves on the advisory board of Startup Teens, Germany's largest digital education platform for entrepreneurship and coding.

"We are delighted to welcome Rebecca Koch to the Nemetschek Group. She is a passionate people leader with a strong business acumen and the drive to take people and organizations worldwide to the next level", says Yves Padrines, CEO of the Nemetschek Group. "I am looking forward to shaping our Group and our culture with her."

"I am fascinated by Nemetschek's growth ambitions and its vision of becoming an ethically responsible, AI-driven company", says Dr. Rebecca Koch, designated Chief People Officer of the Nemetschek Group. "Nemetschek's core business represents exactly the topics which I stand for as a leader: Digitalization, sustainability and finding solutions for today's staff shortage."

Siemens and BASF collaborate on driving circular economy

10 June 2024

Siemens Smart Infrastructure and BASF have announced the first electrical safety product to include components made from biomass-balanced plastics. Used across industrial and infrastructure applications, Siemens SIRIUS 3RV2 circuit breaker is now being manufactured using Ultramid® BMBcert™ and Ultradur® BMBcert™ from BASF, where fossil feedstock at the beginning of the value chain is replaced by biomethane derived from renewable sources such as agricultural waste. Both materials offer the same quality and performance as conventional plastics. The material changeover in the SIRIUS 3RV2 circuit breaker production will reduce the emission of carbon dioxide equivalents by ~270 tons per year¹. Customers using these products contribute to a circular economy towards a more sustainable future.

The move supports Siemens' sustainability goals in the areas of decarbonization and resource efficiency, outlined within its DEGREE framework, with the company following a 1.5°C science-based decarbonization target, including a 90 percent reduction target for scope 1 and 2 until 2030, and the application of a Robust Eco Design for 100 percent of relevant product families by 2030.

In the coming months, Siemens plans to expand the use of sustainable materials across the broader SIRIUS industrial controls portfolio. In addition to product design and features, as well as manufacturing and supply processes, the choice of materials plays a major role in further reducing carbon emissions and conserving natural resources. The SIRIUS 3RV2 circuit breaker meets the strict criteria of the recently introduced Siemens EcoTech label, designed to give

customers a comprehensive insight into product performance across selected environmental criteria. In addition to most of the product housing and functional parts being made from biomass-balanced plastic, the product also offers lower power consumption over its lifetime compared to its predecessor.

“With our products, we help customers to improve asset performance, availability, and reliability, through resource-efficient and circular products which optimize energy use, production, and supply chains throughout their entire lifecycle. In BASF, we have found a strong partner that supports us with its innovations in the field of sustainable plastics,” said Andreas Matthé, CEO of Electrical Products at Siemens Smart Infrastructure.

By increasingly relying on renewable and recycled raw materials for the manufacture of its products, BASF is committed to make its contribution to the circular economy and de-fossilization. This is achieved through a process that gradually replaces fossil raw materials with bio-based and recycled feedstock. According to the mass balance approach, renewable or recycled raw materials are introduced into production at the beginning of the complex BASF value chains. If customers decide in favor of a certified product from such a value chain, BASF feeds sustainable raw materials into ongoing BASF Verbund production.

“The mass balance approach is a game-changing solution that enables the gradual replacement of fossil raw materials in sometimes complex production processes. The advantages of this approach are obvious, and the greater the demand for alternative products, the higher the proportion of alternative raw materials in the production network. This aligns with our goal of achieving a circular economy and net zero operations as soon as possible,” explains Martin Jung, President BASF Performance Materials. “In addition, the special thing about this project is that the SIRIUS 3RV2 circuit breaker is also used in our BASF production plants. This circuit breaker not only protects the motors but also increases their efficiency and reliability, making a double contribution to our sustainability objectives.”

With the mass balance approach, various alternative raw materials, such as biomethane, bio-naphtha or pyrolysis oil, can be integrated into the value chain. The bio-naphtha and biomethane used by BASF are certified as sustainable according to established systems such as ISCC PLUS and REDcert. The SIRIUS 3RV2 circuit breaker is a proof for resource-efficient plastics production and a milestone on BASF’s #ourplasticsjourney.

“The use of such an innovative material in an important safety component, without compromising its safety functionality and performance, is a unique achievement for Siemens,” underlines Andreas Matthé.

Circuit breakers are used in factories and buildings around the world and protect machines or electrical cables in the event of faults such as short circuits. They help prevent major damage, for example from fires. The SIRIUS 3RV2 circuit breaker, using sustainable plastic components, will be presented for the first time on Booth E3, Hall 11 at the ACHEMA trade fair in Frankfurt, June 10-14, 2024. Here, you can also find out more about Siemens EcoTech.

1) The calculation of Product Carbon Footprint of materials is according to Tfs Methodology and compares the CO2 reduction of the BASF Biomass Balanced product vs the conventional BASF product.

Siemens and KU Leuven collaborate to research Digital Twin for Smart and Sustainable Products

11 June 2024

Siemens Digital Industries Software, in collaboration with KU Leuven, has launched the Digital Twin for Smart and Sustainable Products Chair to promote methodological research, stimulate innovations in industrial applications, disseminate results and support educational activities within the field of digital twin technologies.

The Chair will focus on industrial electromechanical systems applications, machinery and drives, and recent developments in transport vehicles. This Chair will push boundaries and develop solutions for various societal, industrial and technological challenges through interdisciplinary collaboration and specific partnerships. Lastly, the Chair supports knowledge dissemination about Digital Twin methodologies and aims to inspire future leaders by offering new application possibilities.

“Siemens is donating the Chair in honor of KU Leuven’s 600th anniversary in 2025, highlighting a long-standing partnership that has fostered industrial innovation and academic excellence,” said Jean-Claude Ercolanelli, Senior Vice President, Simulation and Test Solutions, Siemens Digital Industries Software. “With the new Siemens Chair, we are set to explore the frontiers of digital twin technologies, promising to bring revolutionary solutions to real-world challenges. This initiative underscores a mutual commitment to advancing technological and educational boundaries for a more sustainable world.”

"With this Chair, we can further strengthen the ecosystem around developing and using Digital Twin in the manufacturing industry. Through these Digital Twin technologies, we can ensure that mechatronic products are designed, deployed, and managed more effectively," said Professor Frank Naets, chairholder, KU Leuven.

Siemens' Techcellence Awards recognizes European digital transformation and sustainability leaders, innovators and community champions

7 June 2024

At Realize LIVE 2024 Europe, held in Munich this week, Siemens Digital Industries Software announced the winners of its Techcellence Awards for Europe. First introduced at Realize LIVE Americas earlier this year, the awards have been developed to recognize companies that are striving for change through transformation and sustainability, as well as individuals who are leading through innovation and acting as a champion for digital technology and sharing their knowledge with the Siemens community in Europe. Winners receive VIP attendance passes for Realize LIVE Global 2025, which will take place in June 2025 in Detroit.

“We introduced the Siemens' Techcellence Awards to celebrate our customers' remarkable contributions to drive digital transformation and sustainability initiatives across the European region. We're continuing to spotlight individuals who champion the Siemens Xcelerator portfolio, pushing the boundaries of innovation within their organizations,” said Robert Jones, executive vice president, Global Sales and Customer Success, Siemens Digital Industries Software.

The **Sustainability Impact award** celebrates an organization that demonstrates exceptional commitment to sustainability by leveraging Siemens technologies to drive positive environmental and social impact. It recognizes leaders in decarbonization, energy efficiency, resource management, circularity, as well as those empowering communities and embracing data-driven sustainability insights.

Blendhub aims to make healthy and affordable food and nutrition available to all people in all places. With its food-as-a-service model, Blendhub not only reduces the ecological footprint of food production but also aims to revolutionize the food industry. Its portable micro-factories, powered by digital twin technology, enable local production of nutrient-dense food powders, ensuring freshness and reducing environmental impact and transportation costs. Blendhub, the Sustainability award winner, showcases an unwavering commitment to traceability which guarantees transparency and high-quality standards while minimizing the environmental consequence throughout their production process. Although Blendhub is unable to be here in person, we still want to recognize its remarkable achievements as a deserving winner of the 2024 Techcellence Sustainability impact award.

The **Digital Transformation award** recognizes the achievement of an organization that is fully integrating digital technologies on their path toward becoming a sustainable digital enterprise. Driving transformation in new and innovative ways for businesses to achieve their digital objectives, while also streamlining processes faster, easier, and at scale. We applaud this organization for their displayed ability to combine the real and digital worlds in order to collect, understand, and meaningfully use the generated data to drive digital initiatives.

Rolls-Royce has demonstrated a clear strategic vision for digital transformation, using Siemens' solutions to align its technology initiatives with long-term goals and objectives. Through its commitment to safety and maintaining the highest standards, Rolls-Royce is working with experienced partners, like Siemens, to develop digital thread capability to improve design efficiency, enable cost savings, and enhance customer experience. By adopting a comprehensive digital twin approach, Rolls-Royce has started the journey to enable faster product introduction, flexible manufacturing, and data-driven performance optimization. This has resulted in continuous innovation and excellence.

The **Community Champion award** recognizes an individual who has gone above and beyond by sharing their expertise with Siemens technology. This award honors an individual who helps peers by sharing their knowledge by providing answers, speaking at events and creating publications while championing Siemens products and providing valuable feedback and insight to make the products better. The Siemens community champion exhibits exemplary community leadership through their substantial public contributions.

Blas Molero Hidalgo from IBERISA has demonstrated exceptional commitment to the Siemens Community through his remarkable achievements, expertise and thought leadership. He showcases his expertise in Siemens' CAE technology through insightful blogs, a YouTube channel and active participation in the Siemens forums - providing over 200 responses to users in 2023 alone. Supporting users at all levels of Simcenter FEMAP and NASTRAN, Blas's blogs and YouTube channel have been invaluable resources for peers. As a long-standing beta tester, he has contributed valuable feedback and insights, shaping Siemens' products and making a significant impact on the global Siemens Community.

The **Innovation Leader award** honors Siemens' customers who exemplify creativity and forward-thinking by driving transformative change within their industries. These trailblazers are generating groundbreaking ideas, products or processes that redefine what is possible. We recognize and celebrate these customers that leverage Siemens technologies and solutions to drive organizational progress.

Johannes Hoelzle of MTU Aero Engines AG has demonstrated exceptional leadership and innovation by applying Siemens technologies and solutions to address specific challenges in his organization and industry. With his visionary approach, Johannes Hoelzle, together with Lutz Seidenfaden CIO of MTU Aero Engines AG, set up the project in a new and agile way and tailored the Product Lifecycle Management (PLM) environment to the specific requirements of different roles and disciplines, overcoming the conflict between the IT department's interest in easy maintenance and the users' demand for user-friendly customization. With the successful introduction and adoption of innovative solutions utilizing Siemens technologies such as Mendix, Johannes has achieved measurable results and tangible benefits, including improved user experience, reduced IT maintenance efforts and automated processes.

Wipro Launches On-Premise GenAI Solution with Hewlett Packard Enterprise

13 June 2024

Wipro, a leading technology services and consulting company, announced a strategic collaboration with Hewlett Packard Enterprise (HPE) to launch a GenAI solution within the new Customer Experience Center (CEC) at the Wipro Cloud Studio's Kodathi office to serve customers globally. The solution will leverage Wipro's Smart Operations platform and HPE Machine Learning Development Environment to enhance operational efficiency and customer experience.

The solution will be designed to reduce Mean Time to Resolution (MTTR) duration for GenAI applications by about 50% based on field testing results, decrease the inflow of incidents by 30%, increase Overall Equipment Effectiveness (OEE), and reduce process cycle time to drive ongoing operational excellence. It will benefit industries heavily reliant on customer service, IT support, and operations such as financial services, healthcare, and manufacturing sectors.

Further, the solution will provide clients with the flexibility to select from a diverse range of Large Language Models (LLMs), depending on their unique business needs.

Jo Debecker, Managing Partner and Global head, Wipro FullStride Cloud, said, "The co-creation of this GenAI platform is a testament to our longstanding strategic partnership with

HPE and to our unwavering commitment to delivering advanced AI solutions within our new Customer Experience Center. This practice-specific center will showcase the potential of HPE Machine Learning Development Environment along with Wipro's cutting-edge solutions. Together we will continue to push the boundaries of innovation to ensure our clients realize their business ambitions.”

Marc Waters, Senior Vice President, Global Sales, HPE, said: “Our collaboration with Wipro is well proven over many years and this expansion to include AI solutions is an exciting progression. Wipro’s deep technical expertise and HPE’s AI technology are a powerful combination that will accelerate time to value for our customers. By including HPE Machine Learning Development Environment as part of Wipro’s GenAI customer experience, we will enable customers to develop and deploy AI models faster by integrating with popular machine learning frameworks and simplifying data preparation.”

Event News

Altair Announces ATCx AI for Engineers 2024 Global Virtual Event

10 June 2024

Altair, a global leader in computational intelligence, announced its ATCx AI for Engineers 2024 global virtual event will be held on June 20. The event will bring together design, simulation, and manufacturing engineers from around the world to explore the transformative potential of artificial intelligence (AI) in product development.

The event features an impressive lineup of speakers and panelists from some of the world’s leading companies, including:

- Mike Gualtieri, vice president, principal analyst, Forrester
- Stavros Stefanis, principal partner, Deloitte Consulting
- Matt Smolka, principal engineer, advanced simulation, Lotus
- Chris Wlezien, senior expert and design director, engineering, McKinsey
- Taro Yokomizo, senior principal digital engineer, high-performance computing product group, Renesas Electronics
- Giuseppe Gullo, fea design analysis engineer, CNH Industrial
- Jeevesh Prason, senior engineer, Hero MotoCorp Ltd.
- Kazuki Sakurai, product development, Daikin
- Martin Ortega, design leader, Mabe
- Simon Backhaus, director, IRnow

One of the key highlights is the exclusive reveal of Altair’s “100 Use Cases for AI-Powered Engineering.” These 100 use cases will illustrate how AI can benefit engineering and provide engineers with practical insights on how they can implement AI within their organizations. From

concept to reality, AI transforms processes – from design and simulation to manufacturing and beyond – by increasing efficiency, accuracy, and innovation. All attendees will have access to the document after the event.

ATCx AI for Engineers will also feature a presentation by Altair’s Sean Martin, vice president software engineering, who recently joined Altair via the acquisition of Cambridge Semantics. During his presentation, “Integrating Data with Knowledge Graphs: Why, What, and How?” he will showcase how Altair’s industry-leading knowledge graph technology used by Fortune 500 companies around the globe empowers organizations to build advanced analytics ecosystems and drive data-driven innovation.

The event will be held in three time zones across the AMER, EMEA, and APAC regions, and will offer live translations into Spanish, French, Italian, Portuguese, German, Japanese, Chinese, and Korean. To reserve your spot and to gain access to “100 Use Cases for AI-Powered Engineering,” visit <https://events.altair.com/atcx-ai-for-engineers-2024/>.

American Software to Present at the Sidoti Small Cap Conference

10 June 2024

American Software, Inc., a leading provider of innovative AI-powered supply chain planning software, announced that Allan Dow, Chief Executive Officer and President, and Vincent Klinges, Chief Financial Officer, will present virtually at the following investor conference:

Sidoti Small Cap Conference

Date: Wednesday, June 12, 2024

Time: 10:45 am ET

A live webcast of the presentation will be accessible [here](#) and will be archived on American Software’s [website](#) for a limited time.

AVEVA unveils key learnings from AVEVA 2023 Sustainability Progress Report and first AVEVA Industrial Intelligence Index at London Tech Week 2024

11 June 2024

AVEVA, a global leader in industrial software, launches AVEVA’s 2023 Sustainability Progress Report and the first edition of the AVEVA Industrial Intelligence Index at London Tech Week 2024 where the company advocates for an ethical and impact-driven AI aimed at increasing creativity and efficiency for a more sustainable world.

AVEVA 2023 Sustainability Progress Report: key learnings

In 2023, AVEVA continued to make progress on its core ESG framework objectives, including enabling the sustainable transformation of industry through its software, modelling environmental stewardship and ethical best practice, and fostering an inclusive workplace culture where every employee feels engaged and empowered to learn and grow.

This fourth edition of the report is AVEVA's first publication of ESG data and workstream advancements aligned to a calendar year reporting period. It details progress made in 2023 to AVEVA's three key pillars: Technology handprint, Operational footprint, and Inclusive culture.

Technology handprint

"Beyond our efforts to reduce our own carbon footprint, we recognize that our biggest opportunity to make a positive impact and accelerate our journey towards NetZero is through our core products, digital solutions that can help industries improve efficiency, circularity, traceability and resilience" declared Lisa Wee, Global Head of Sustainability, AVEVA.

With this regard, the company has developed a *green new logo* program that has supported in the first six months the deployment of clean tech activities for 25 customers. In addition, with 13 new case studies quantifying the reduction of emissions AVEVA software enables for customers, the company demonstrates how it walks the talk through tangible achievements contributing to sustainability. Last but not least, hackathons run in 2023 generated 80 sustainability-led technology ideas for future innovations.

2023 also saw the launch of AVEVA's Sustainability Accelerator program the purpose of which is to advance sustainability use cases and capabilities across the company's portfolio and partner ecosystem, including via AVEVA's industrial intelligence platform, CONNECT.

"AVEVA's Sustainability Accelerator program aims to enable faster uptake of existing sustainability solutions across the industrial landscape, while we continue to invest in product capabilities and partnerships that will push out the frontiers of sustainability innovation for industry" said Joana Mainguy, Director of Sustainability in charge of the program.

Finally, AVEVA has pioneered a new standard for green software: since the end of 2023, 31% of its portfolio has built-in power consumption measurement technology.

Operational footprint

In 2023, AVEVA met 4 out of the 15 2025 ESG targets including 93% reduction in scope 1 and scope 2 emissions through a combination of measures: the company procured 100% of renewable electricity in all global markets as per RE100 criteria, reduced its overall fleet of 21% over the year, and counted hybrid or electric vehicles for 25% of the remaining fleet. Notable achievements related to upstream emissions include a 36% decrease in purchased goods and services and a 49% decrease in business travel emissions. The latter goes beyond our 2025 ESG goal of a 20% reduction.

Regarding the scope 3, AVEVA has integrated e-waste data in the inventory under the waste category to report another significant achievement: *"Our initial target of diverting 5 tons of e-waste from landfill in 2025 was surpassed by 22.75 tons in 2023. 100% of e-waste sent to our disposal partner is now diverted from landfill,"* explained Lisa Wee.

Inclusive culture

AVEVA's commitment to developing a workplace environment where all employees feel included and are treated with dignity and respect is also highlighted in the report.

“Globally, with 39.9% of new hires, 29% of managers and 26,5% of leaders being women, AVEVA has significantly increased gender representation in 2023 and will continue in this direction to raise these numbers to 50% of new hires, 40% of managers and 30% of leaders by 2030. Besides, we have reached our goal of less than 1% pay equity, and it currently stands at 0.5%”, commented Lisa Wee with enthusiasm. In addition, AVEVA demonstrated its commitment to society donating £ 310,000 to causes supported by AVEVA employees’ communities around the world.

AVEVA also achieved key milestones in regions: In the US, the company has developed a partnership with two Historically Black Colleges and Universities (HBCUs) for an ‘AVEVA Scholars Program. Spanning three years, the program includes scholarships and immersive onsite experiences, ultimately paving the way for talented Black scholars in Engineering and Computer Science to join the AVEVA team upon graduation. The pilot will kick-off mid-June 2024 and count 12 students.

AVEVA INDUSTRIAL INTELLIGENCE INDEX REPORT: A 2-in-1 publication to report on industrial needs and to give guidance on existing solutions through inspiring examples of successful and sustainable digital transformation:

At London Tech Week 2024, AVEVA launched its first annual AVEVA Industrial Intelligence Index:

“AVEVA has been supporting the industrial world for more than half a century. Listening to our customers’ needs and understanding their challenges is how we innovate and develop tailored solutions that will help them cope with current and future challenges. With more than 25 000 customers across all industries, we have built a unique expertise. Today I’m delighted to introduce our first AVEVA Industrial Intelligence Index Report. Our ambition is to issue this report every year to help C-suite executives, business unit leaders, and strategic decision-makers leverage industrial intelligence and succeed in the digital age, with inspiring insights about how industries transform towards a more sustainable future” declared Caspar Herzberg, AVEVA CEO.

Drawing on research conducted with 500 global industry executives across Europe, North America and Asia Pacific, this first edition gives valuable and actionable insights into the power, manufacturing, infrastructure, and chemicals industries. Including comments from AVEVA’s experts and leaders, the report unveils macro trends and describes the forces that drive change and innovation. It also presents case studies showcasing successful digitalization initiatives, and strategies for driving innovation and efficiency to chart a course towards a more sustainable and profitable future.

About AVEVA’s participation in London Tech Week

Located on stand # 629, the AVEVA booth offers visitors tangible examples that show how technology leaders and businesses are coming together to turn ambition into action, providing real-world take aways to help transform businesses and secure a greener future. With a demo of the first industrial AI assistant in the market, AVEVA shows how sector expert software and AI innovation, founded on deep industry knowledge, is shaping a sustainable future for industries.

AVEVA's spokespeople are available for interviews onsite at London Tech Week 2024:

- *Caspar Herzberg, AVEVA Chief Executive Officer*
- *Helen Lamprell, AVEVA Chief Legal and Transformation Officer*
- *Evgeny Fedotov, AVEVA SVP EMEA*

Please reach [kathryn.foster@aveva.com] to arrange meetings according to speakers' availability.

- Link to **AVEVA 2023 SUSTAINABILITY PROGRESS REPORT**: <https://sustainability-report.aveva.com/>
- Link to **AVEVA INDUSTRIAL INTELLIGENCE INDEX 2024**: <https://events.aveva.com/aveva-iii-report-2024/>

Centric Software Highlights AI Innovations for Retail Planning and Pricing Optimization at NYC Event

10 June 2024

Centric Software®, market-leader in fast-moving consumer goods and retail Product Lifecycle Management (PLM), is proud to host its NYC Centric Connect retail planning and pricing optimization event for merchandise planning and inventory allocation leaders. Centric Software provides the most innovative enterprise solutions to plan, design, develop, source, buy, make, price, allocate, sell and replenish to achieve strategic and operational digital transformation goals.

After a successful two-day event in Paris, where over 70 Centric customers, partners and industry experts and over 15 speakers assembled to discuss and discover AI and other market-driven cutting-edge technologies covering a wide range of margin-critical processes across retail planning and execution, the Centric Connect Summit will be held in New York City on June 13. Hear esteemed guest speakers from Maurices and Guess as they share solutions for today's market disruptions challenges and how to leverage AI to stay ahead. Attendees will delve into how to build true market-driven assortments, pin-point pricing to drive margins and ROI while meeting sustainability goals by optimizing inventory.

Participants will gain knowledge from Centric experts, garner insights from industry peers, gain knowledge from experts that are already employing AI-enabled solutions to their advantage. They will hear real-life use cases and pick up actionable tips on how to build customer centric assortments, price, reduce stock and boost profits.

"We're thrilled to welcome top brands and retailers to New York City for Centric Software's Planning and Pricing Optimization Summit," says Simone Pozzi, Senior Vice President Planning. "This event will bring together industry innovators and thought leaders to explore cutting-edge AI strategies and best practices that are reshaping retail planning and execution, setting new standards for the future of Fashion and Retail."

Those who wish to attend should register for this value-packed event without delay.

The road to HPE Discover 2024 is paved with network innovations

10 June 2024

In the run-up to major user conferences, most vendors will hold their major announcements to drop during the event. Maybe there will be a hint or a tease, but the major news typically waits for the main stage presentation.

When we looked at our development programs and roadmap at the beginning of 2024, we realized that our product management and engineering teams were delivering a wide range of new products over the first half of 2024. So, instead of waiting until June 17 to introduce this abundance of innovation, we decided to take a different approach and introduce them ahead of our [HPE Discover customer conference](#). We call this the Road to HPE Discover 2024.

These networking innovations span our total portfolio and reflect our core strengths as a security-first, AI-powered network solutions provider. As we head into Discover week, I thought it would be helpful to summarize what we have introduced over the last 90 days.

- **GenAI for Network Operations that is safe and on-point.** By leveraging our comprehensive HPE Aruba Networking Central data lake that we have assembled over the last decade, we have been able to train a network-centric LLM without relying on or interfacing with the Internet at large. This means that customer privacy is maintained while the answers delivered by the LLM-powered search are less prone to hallucinations because models are trained on relevant, focused network-specific information.
- **Wi-Fi 7+.** The “plus” comes from the fact that this newest family of Wi-Fi 7 access points continues to extend the mission of an AP with extensive support for automated spectrum management and optimization, built-in security, and the expansion of the access point as an IoT platform. In conjunction with HPE Aruba Networking Central and as IoT becomes an important source for building AI data lakes and activating inference solutions, support of on-AP container execution and extensive IoT protocol support means that even if you’re not ready to move to Wi-Fi 7, these APs will deliver huge value in building AI solutions while future-proofing your wireless network.
- **AI for Security, Security for AI.** At the recent RSA security conference in San Francisco, we showcased innovations for both sides of the AI security paradigm. From an AI-for-security perspective, we expanded our AI-powered HPE Aruba Networking Central Client Insights IoT discovery and profiling solution to now include use of AI-based behavioral analytics to continuously monitor and identify changes in operation that can indicate compromise. Because AI data lakes, processes, and models are now so highly valued, they make a tempting target for hackers. The network plays a crucial role in security for AI, and at RSA we introduced a new cloud-based Firewall-as-a-Service as part of our SSE solution, along with new security observability dashboards and an integrated SD-WAN/Secure Web Gateway SASE offering.
- **Breakthrough Private 5G Cellular for the Enterprise.** When we acquired Athonet in 2023, our goal was to build on their market-leading core cellular capabilities to completely re-define what an enterprise Private 5G solution looks like. And that’s exactly what we’ve done. Up until now, enterprise private cellular has been an arduous, bespoke undertaking that can involve up

to seven different vendors to assemble a solution. Now with HPE Aruba Networking Enterprise Private 5G, we have introduced the breakthrough single-vendor solution that delivers everything needed in a single package along with the simplicity and ease of management that we have pioneered with enterprise Wi-Fi.

· **Security-first, AI-powered Network Management.** The common denominator of all these innovations is the unifying presence of HPE Aruba Networking Central. With cloud-native services managing the entire network across wired, wireless, data center and WAN, customers have a single point of visibility and control to ensure they are getting the most out of this critical part of their IT infrastructure.

“The Road to Discover” is an apt metaphor for the crucial role the network plays in capturing, securing, transporting and delivering access to data and applications to anyone, anywhere at any time, tying together users and devices, compute and storage from the edge to the cloud.”

David Hughes

chief product officer, HPE Aruba Networking

These innovations have been impactful enough to the business to have been mentioned by HPE CEO Antonio Neri during our recent Q2 FY24 earnings call:

*“We announced significant new innovations during the quarter to align with HPE’s broader AI strategy. These solutions include **generative AI capabilities** to improve AIOps, and Wi-Fi 7 access points that **capture edge data for AI inferencing**. In addition, last month we launched new security and AI observability tools to help fight AI cyber risks. And just yesterday, we expanded the **most complete private 5G and Wi-Fi portfolio in the market** with the launch of HPE Aruba Networking Enterprise Private 5G. All of this will be delivered through our HPE GreenLake cloud platform.”*

All of these announcements focus on key customer needs across security, AI, and connectivity. So “The Road to Discover” is an apt metaphor for the crucial role the network plays in capturing, securing, transporting and delivering access to data and applications to anyone, anywhere at any time, tying together users and devices, compute and storage from the edge to the cloud.

Now, the astute observer will ask: “what about switching?” Well, I didn’t say we’ve announced all the innovations we have ready to go—stay tuned to [HPE Discover 2024](#) to hear yet more exciting news covering our networking solutions. And if you are attending the event, we’ll be showcasing these new solutions and our full portfolio in the Demo Showcase, 130+ technical sessions and the [Atmosphere Technical General Session](#).

Financial News

Autodesk files Forms 10-K and 10-Q and announces financial results conference call

10 June 2024

Autodesk, Inc. has filed its Form 10-K for the year ended January 31, 2024 and its Form 10-Q for the quarter ended April 30, 2024. Autodesk will host a conference call to discuss its first quarter

fiscal 2025 financial results via its website on Tuesday, June 11, 2024, at 2 p.m. Pacific Time. Join the live webcast call here: autodesk.com/investors. An audio replay of the webcast will be available after 5 p.m. PT at autodesk.com/investors.

More information will be available on autodesk.com/investors.

AUTODESK, INC. ANNOUNCES FISCAL 2025 FIRST QUARTER RESULTS

11 June 2024

Autodesk, Inc. reported financial results for the first quarter of fiscal 2025.

All growth rates are compared to the first quarter of fiscal 2024, 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.

First Quarter Fiscal 2025 Financial Highlights

- Total revenue increased 12 percent to \$1.42 billion;
- GAAP operating margin was 21 percent, up 4 percentage points;
- Non-GAAP operating margin was 35 percent, up 3 percentage points;
- GAAP diluted EPS was \$1.16; Non-GAAP diluted EPS was \$1.87;
- Cash flow from operating activities was \$494 million; free cash flow was \$487 million.

"Autodesk is ahead of its peers in 3D AI and the industry clouds, platforms, and business model evolution that will be needed to deliver 3D AI products and services at scale. We can already use generative AI to quickly generate functional 3D shapes from a variety of inputs including 2D images, text, voxels and point clouds. We are well on the way to reasoning about all CAD geometry," said Andrew Anagnost, Autodesk president and CEO. "We intend to retain and extend this lead while also driving to an industry-leading 'Rule of Forty' ratio of 45 or more."

Additional Financial Details

- Total billings decreased 5 percent to \$1.11 billion.
- Total revenue was \$1.42 billion, an increase of 12 percent as reported, and 13 percent on a constant currency basis. Recurring revenue represents 97 percent of total.
- Design revenue was \$1.20 billion, an increase of 10 percent as reported, and 12 percent on a constant currency basis. On a sequential basis, Design revenue decreased 2 percent as reported, and 1 percent on a constant currency basis.
- Make revenue was \$145 million, an increase of 20 percent as reported, and 21 percent on a constant currency basis. On a sequential basis, Make revenue increased 5 percent as reported and on a constant currency basis.
- Subscription plan revenue was \$1.33 billion, an increase of 11 percent as reported, and 13 percent on a constant currency basis. On a sequential basis, subscription plan revenue decreased 1 percent as reported and on a constant currency basis.

- Net revenue retention rate remained within the range of 100 to 110 percent, on a constant currency basis.
- GAAP operating income was \$299 million, compared to \$217 million in the first quarter last year. GAAP operating margin was 21 percent, up 4 percentage points compared to the first quarter last year.
- Total non-GAAP operating income was \$490 million, compared to \$404 million in the first quarter last year. Non-GAAP operating margin was 35 percent, up 3 percentage points compared to the first quarter last year.
- GAAP diluted net income per share was \$1.16, compared to \$0.75 in the first quarter last year.
- Non-GAAP diluted net income per share was \$1.87, compared to \$1.55 in the first quarter last year.
- Deferred revenue decreased 12 percent to \$3.96 billion. Unbilled deferred revenue was \$1.93 billion, an increase of \$1.03 billion compared to the first quarter last year. Remaining performance obligations ("RPO") increased 9 percent to \$5.89 billion. Current RPO increased 12 percent to \$3.92 billion.
- Cash flow from operating activities was \$494 million, a decrease of \$229 million compared to the first quarter last year. Free cash flow was \$487 million, a decrease of \$227 million compared to the first quarter last year.

First Quarter Fiscal 2025 Business Highlights

Net Revenue by Geographic Area

	Three Months Ended April 30, 2024	Three Months Ended April 30, 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.	\$	509	\$	456	\$	53	12 %	*
Other Americas		110		97		13	13 %	*
Total Americas		619		553		66	12 %	12 %
EMEA		534		474		60	13 %	14 %
APAC		264		242		22	9 %	14 %
Total Net Revenue	\$	1,417	\$	1,269	\$	148	12 %	13 %

* 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 April 30, 2024	Three Months Ended April 30, 2023	Change compared to prior fiscal year	
			\$	%
AEC	\$ 674	\$ 582	\$ 92	16 %
AutoCAD and AutoCAD LT	376	349	27	8 %
MFG	268	246	22	9 %

M&E	71	71	—	— %
Other	28	21	7	33 %
Total Net Revenue	\$ 1,417	\$ 1,269	\$ 148	12 %

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 second quarter and full-year fiscal 2025 considers the current economic environment and foreign exchange currency rate environment. A reconciliation between the fiscal 2025 GAAP and non-GAAP estimates is provided below or in the tables following this press release.

Second Quarter Fiscal 2025

Q2 FY25 Guidance Metrics	Q2 FY25 (ending July 31, 2024)
Revenue (in millions)	\$1,475 – \$1,490
EPS GAAP	\$1.12 – \$1.18
EPS non-GAAP (1)	\$1.98 – \$2.04

(1) Non-GAAP earnings per diluted share excludes \$0.80 related to stock-based compensation expense, \$0.15 for the amortization of both purchased intangibles and developed technologies, and \$0.07 for acquisition-related costs, partially offset by (\$0.16) related to GAAP-only tax charges.

Full Year Fiscal 2025

FY25 Guidance Metrics	FY25 (ending January 31, 2025)
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Billings (in millions)	\$5,810 – \$5,960 Up 12% – 15%
Revenue (in millions) (1)	\$5,990 – \$6,090 Up 9% – 11%
GAAP operating margin	21% – 22%
Non-GAAP operating margin (2)	35% – 36%
EPS GAAP	\$4.71 – \$4.93
EPS non-GAAP (3)	\$7.99 – \$8.21
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 11% 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 \$3.16 related to stock-based compensation expense, \$0.57 for the amortization of both purchased intangibles and developed technologies, and \$0.20 related to acquisition-related costs, partially offset by (\$0.65) related to GAAP-only tax charges.

(4) Free cash flow is cash flow from operating activities less approximately \$30 million of capital expenditures.

The second quarter and full-year fiscal 2025 outlook assume a projected annual effective tax rate of 21 percent and 19 percent for GAAP and 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. Therefore, 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 first 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.

Blackline Safety Reports Highest Quarterly Revenue Ever – Q2 Hits \$31.6M, Up 31% Year-Over-Year

13 June 2024

Blackline Safety Corp. (“Blackline”, the “Company”, “we” or “our”), a global leader in connected safety technology, reported its fiscal second quarter financial results for the period ended April 30, 2024.

Management Commentary

“We achieved our highest quarterly revenue ever at \$31.6 million, a 31% increase over the prior year’s second quarter. This result, coupled with our highest gross profit at \$18.0 million and highest gross margin at 57% demonstrate the strength of our hardware-enabled software as a service business model as the company scales,” said Cody Slater, Blackline Safety Corp. CEO and Chair.

“Our record ARR of \$56.5 million, up 33% year-over-year, and NDR at 130%, up from 118% twelve months ago, signals the value that our loyal customers see in the Blackline Platform, our unique hardware and software connected safety solution. Our ARR growth is driven by new customer acquisition and our NDR performance is fueled by our existing enterprise customers expanding their current contracts, as both see the value in adopting our products and services to protect their people,” Slater added.

This record-breaking quarter was driven by rising demand from customers in over 70 countries around the world for Blackline’s industry leading connected safety products and services, with Europe leading the year-over-year growth at 69%, Canada up 34% and the U.S. up 20%. The Company significantly grew its presence in a variety of verticals, including the utility and water and wastewater industries, fire and hazmat, and upstream and midstream energy sectors. This growth was a result of the contribution from the past investments in the Company’s sales teams and supporting functions to enable Blackline to serve more customers across broader markets.

“An emerging driver of our robust financial performance is that we are now seeing customers standardize on our solutions to protect all their frontline workers. This is evidenced by our announcement earlier this week of our largest deal to date—\$8.5 million—with a major North

American midstream energy company, an expansion to their previously announced \$3.5 million contract, whereby Blackline now protects their entire workforce,” Slater continued.

Post quarter-end, the Company announced the successful closing of a bought deal financing and concurrent private placement, raising \$34.6 million in gross proceeds strengthening its ability to finance its lease program into the future. Blackline ended the second quarter with total cash and cash equivalents of \$13.2 million. The Company also has available capacity on its credit facility of \$9.4 million and have renewed its lease securitization facility with CWB Maxium.

“Our additional capital, along with our cost optimization, margin expansion and revenue growth reinforces our trajectory towards exiting fiscal 2024 with positive quarterly Adjusted EBITDA and becoming a sustainable, free cash flow company as we lead the industrial connected safety market into the future,” concluded Slater.

Fiscal Second Quarter 2024 and Recent Financial and Operational Highlights

- Total revenue of \$31.6 million, a 31% increase over the prior year’s Q2
- Service revenue of \$16.8 million, a 30% increase over the prior year’s Q2
- Product revenue of \$14.8 million, a 32% increase over the prior year’s Q2
- ARR(1) growth continues to be strong with 33% growth year-over-year to \$56.5 million
- European market growth of 69% over the prior year’s Q2
- Canadian market achieved 34% growth over the prior year’s Q2
- United States growth continues to be strong with a 20% increase over the prior year’s Q2
- Achieved product gross margin of 34%, up from 26% from the prior year’s Q2
- Achieved service gross margin of 77%, up from 75% from the prior year’s Q2
- Total Q2 expenses of \$21.8 million, up \$2.6 million year-over-year, an 11% decrease as a percentage of revenue
- Significant improvement in net cash used in operating activities to \$1.5 million from \$7.1 million over the prior year’s Q2, a 78% decrease
- Generated gross proceeds of \$34.6 million through a bought deal financing and concurrent private placement which closed June 12, 2024
- Renewed lease securitization facility with CWB Maxium for \$15.0 million and USD \$30.0 million
- Several large contract wins, including a \$1.5 million contract with major U.S. utility provider in California, \$1.7 million service upgrade with a U.S. upstream energy company in Texas and a \$1.4 million deal with a water utility provider in Australia

(1) This news release presents certain non-GAAP and supplementary financial measures, including key performance indicators used by management and typically used by companies in

the software-as-a-service industry, as well as non-GAAP ratios to assist readers in understanding the Company's performance. Further details on these measures and ratios are included in the "Key Performance Indicators," and "Non-GAAP and Supplementary Financial Measures" sections of this news release.

Key Financial Information

Total revenue for the fiscal second quarter was \$31.6 million, an increase of 31% compared to \$24.1 million in the prior year's quarter. Total revenue for each geographical market increased with the European markets leading the year-over-year growth at 69% while other regions also demonstrated strong growth with Canada up 34%, United States up 20% and Rest of World up 3%.

Service revenue during the fiscal second quarter was \$16.8 million, an increase of 30% compared to \$12.9 million in the prior year's quarter. Software services revenue increased 28% to \$14.5 million. The increase in software services revenue is attributable to new activations of devices sold over the past 12 months as well as net growth within the existing customer base of \$3.2 million which resulted in NDR of 130%. Rental revenue increased 42% to \$2.2 million compared to \$1.6 million in the prior year's quarter.

Product revenue during the fiscal second quarter was \$14.8 million, a 32% increase compared to \$11.2 million in the prior year's quarter. The increase in the current year period reflects the results of the Company's past investments in the global sales team and its targeted demand generation and sales development activities.

Overall, gross margin percentage(1) for the fiscal second quarter was 57%, a 5% increase compared to the prior year's quarter. The increase in total gross margin percentage(1) was due to a combination of higher sales volume and continued cost optimization across the business. Product revenue comprised 47% of total revenue in the second quarter, compared to 46% in the prior year's quarter, while service revenue made up 53% of total revenue for the quarter, compared to 54% in the prior year's quarter.

Service gross margin percentage(1) increased to 77% compared to the prior year's quarter of 75%. This was primarily due to continued service revenue growth, through additional value-added features and scale absorbing more fixed cost of sales.

Product gross margin percentage(1) for the fiscal second quarter increased to 34% from 26% in the prior year's quarter. The improvement reflects the increased volume of product sales year-over-year, wherein more fixed product costs of sales were absorbed, as well as the Company's focus on manufacturing line efficiency.

Total expenses for the second fiscal quarter were \$21.8 million, an increase of \$2.6 million compared to the prior year's quarter of \$19.2 million, due to increases in sales and marketing expenses. General and administrative expenses and product research and development costs remained largely consistent in the current quarter compared to the prior year's quarter. However, Q2 total expenses as a percentage of revenue(1) decreased 11% year-over-year compared to prior year's Q2.

Net loss for the fiscal second quarter was \$4.3 million, or \$0.06 per share, compared to \$6.6 million or \$0.09 per share in the prior year's quarter. Net loss decreased due to an increase in total revenue and overall gross profit.

EBITDA(1) for the fiscal second quarter was \$(1.9) million or \$(0.03) per share compared to \$(4.6) million or \$(0.06) per share in the prior year's quarter. The \$2.7 million improvement in EBITDA⁽¹⁾ is primarily due to the increase in total gross profit.

Adjusted EBITDA(1) for the fiscal second quarter was \$(2.0) million or \$(0.03) per share compared to \$(4.5) million or \$(0.06) per share in the prior year's quarter. The \$2.5 million improvement in Adjusted EBITDA(1) is primarily due to the increase in total gross profit.

At the end of the fiscal second quarter, Blackline had total cash and cash equivalents on hand of \$13.2 million and \$9.4 million available on its senior secured operating facility and \$54.4 million available on its lease securitization facility. There was a net increase in cash and cash equivalents in the fiscal second quarter of \$1.8 million as compared to a net decrease in cash and cash equivalents in the prior year's quarter of \$6.1 million. There was significant improvement in net cash used in operating activities which used \$1.5 million of net cash compared to \$7.1 million year-over-year. Investing activities provided net cash of \$2.1 million for the fiscal second quarter compared to the prior year's quarter wherein investing activities used net cash of \$7.3 million. This was slightly offset by a decrease in net cash provided by financing activities which is primarily due to net repayments from the lease securitization facility of \$1.5 million during the quarter. Subsequent to the end of the period, the Company closed a bought deal financing and concurrent private placement, raising gross proceeds of \$34.6 million.

Blackline's Interim Condensed Consolidated Financial Statements and Management's Discussion and Analysis on Financial Condition and Results of Operations for the three and six-months ended April 30, 2024, are available on SEDAR+ under the Company's profile at www.sedarplus.ca. All results are reported in Canadian dollars.

Conference Call

A conference call and live webcast have been scheduled for 11:00 am ET on Thursday, June 13, 2024. Participants should dial 1-844-763-8274 or +1-647-484-8814 at least 10 minutes prior to the conference time. A live webcast will also be available at <https://www.gowebcasting.com/13182>. Participants should join the webcast at least 10 minutes prior to the start time to register and install any necessary software. If you cannot make the live call, a replay will be available within 24 hours by dialing 1-855-669-9658 or +1-604-674-8052 and entering access code 0724.

Implementation Investments

Altair's Leading Computational Intelligence Technology Drives NYYC American Magic Team's Quest to Win the 37th America's Cup

12 June 2024

Altair, a global leader in computational intelligence, is thrilled to showcase the highlights of its role as the official computational science and artificial intelligence (AI) partner for the New York Yacht Club (NYYC) American Magic team ahead of its quest for victory in the 37th America's Cup, beginning August 22.

Throughout the development cycle for the 37th America's Cup, Altair's computational fluid dynamics (CFD), structural analysis, data analytics, and high-performance computing (HPC) technology has transformed American Magic's yacht design and testing process. Through its use of Altair's technology and expertise the team designed a state-of-the-art "AC75" yacht.

Altair's technology expedited and simplified the American Magic engineering team's development process to ensure they can iterate and discover new design insights faster than ever – a pivotal capability to have in a race where cutting-edge yachts can reach speeds of more than 55 mph and appear to "fly" out of the water. Altair's unique blend of technological and domain expertise was a pivotal part of the American Magic team's development, enabling them to build a yacht capable of winning on the world's biggest stage.

"Our work with American Magic demonstrates the power of Altair's convergence and computational intelligence vision on a global stage like no other," said Jim Scapa, founder and chief executive officer, Altair. "They are a world-class organization that is always looking to find new ways to innovate and succeed – just as Altair is. This is truly a collaboration between two organizations who share the same values, vision, and desire to excel. We are delighted that the American Magic team turned to us in their search for the market's finest computational intelligence technology, and I cannot wait to see their hard work in action."

"We are thankful to have had Altair's technology and support propel our journey to win the 37th America's Cup," said Mike Cazer, chief executive officer, NYYC American Magic. "Altair's best-in-class technology was crucial in helping us design a yacht that enhances the team's capability to win the America's Cup in October. Altair has been an instrumental partner, and we are looking forward to seeing our teams' hard work out on the water."

The 37th America's Cup begins in Barcelona, Spain on August 22 with the Preliminary Regatta, followed by the Challenger Series. The 37th America's Cup Match will take place October 12-21 in a best-of-thirteen series.

Bath & Body Works Join Forces with Accenture to Elevate Customer Experiences and Deliver Growth through Next-Generation Technology and AI

6 June 2024

Bath & Body Works, Inc., a leading retailer of personal care and home fragrance products, is collaborating with Accenture to modernize, transform and simplify its core digital and technology platforms. This multi-year program is part of Bath & Body Works' strategy to elevate the brand and leverage the latest technologies in digital, MarTech, AI and generative AI (gen AI) to drive growth.

"Our collaboration with Accenture is about having a strong technology foundation and scaling the power of digital, data, and AI to deliver new levels of customer experiences, agility and performance," said Gina Boswell, CEO, Bath & Body Works. "This will help us accelerate profitable growth by enhancing our operations, elevating our brand and engaging our customers differently through personalized and seamless experiences that keep them coming back."

As part of its vision to drive growth, Bath & Body Works will also work with Accenture to create new and innovative capabilities like a digital Fragrance Finder, a gen AI-powered conversational experience to help customers find the perfect fragrance tailored to their individual preferences. This comes as Accenture's Consumer Pulse 2024 research found that more than half (51%) of consumers are already open to using conversational AI solutions.

"We are focused on leveraging our core strengths in fragrance and augmenting these with cutting-edge technology and AI experiences such as native mobile, headless commerce, MarTech and transformer-based neural networks to deliver hyper-relevant and immersive experiences to customers with greater precision," said Thilina Gunasinghe, Chief Digital and Technology Officer, Bath & Body Works.

"Our collaboration with Bath & Body Works on its continuous reinvention will help this beloved brand continue to raise the bar on the retail customer experience," said Julie Sweet, chair and CEO, Accenture. "Together, we will build a strong digital core of cloud, data and AI and innovative gen AI solutions that can help Bath & Body Works create value, foster growth and continually delight their customers in new ways."

Accenture Song recently launched a report titled "Generative AI for Customer Growth" that found companies applying gen AI to customer-related initiatives can expect to achieve 25% higher revenue after five years than companies that focused only on productivity.

Bechtle supports digitalisation in Lower Saxony

13 June 2024

Bechtle has once again been awarded the framework agreement for project management and independent IT consultation to drive digitalisation across the state of Lower Saxony. The agreement has a two-year term plus the option to extend it twice, each time for an additional year. During this period, Bechtle will be providing a wide-range of services—from strategic

consulting and programme and project management to providing assistance for related RFPs, along with architecture services for the configuration and expansion of secure, future-proof IT infrastructures. In addition to the state's administration, local authorities in Lower Saxony will also be able benefit from the framework agreement.

The central IT service provider for the state, IT.Niedersachsen has once again concluded a framework service agreement with Bechtle. Having submitted the winning bid for the agreement on project management and independent IT consultation, the Bechtle IT System House in Hanover is supporting IT.Niedersachsen to drive the digital transformation of public authorities.

Lower Saxony's Digital Strategy 2030 aims to make numerous services available online and enable the public sector to leverage digital innovations. Against the backdrop of the digitalisation of public authorities throughout Germany, Lower Saxony is taking the lead in the development digital healthcare services, which authorities across the country can adopt in accordance with a "one-for-all" strategy.

"Receiving the commission once again is testament to the excellent collaboration with IT.Niedersachsen over the last few years and ensures the necessary continuity and breadth of capabilities as we strive to digitalise public administration. By extending the scope of eligible institution to include Lower Saxony's local authorities, this will also allow for even greater synergies as we roll out new digital standards across the state," says Holger Meyer, Managing Director, Bechtle IT System House, Hanover.

Centric PLM and Centric Visual Boards to Support Abercrombie & Fitch Co.'s Assortment Optimization

11 June 2024

Centric Software® is delighted to announce that the iconic retailer Abercrombie & Fitch Co. has selected Centric PLM™ and Centric Visual Boards™ to further drive the digital transformation of its assortment and product go-to-market strategy.

Centric Software will provide integrated PLM and visual assortment capabilities to support Abercrombie & Fitch Co.'s merchandising, design, sourcing and planning teams. Centric PLM and Centric Visual Boards will support the global evolution of assortment development and product execution as A&F Co. aims to get even closer to its customers; equipping the teams with tools to visualize assortments more easily, adapt assortments to regional customer preferences, drive efficient buying sessions and more.

"As part of our ongoing digital revolution at Abercrombie & Fitch Co., we're focused on implementing tools that allow us to get the right products to the right places around the world as efficiently as possible. With that, we're looking forward to partnering with Centric to provide an innovative end-to-end solution to speed time to market and support communication and visibility across multiple global functions," said Billy Murray, Group VP Enterprise Systems at Abercrombie & Fitch Co.

“Centric’s suite of collaborative visual tools will support the enhancement of Abercrombie & Fitch Co.’s product catalog and go-to-market strategies across regions,” said Fabrice Canonge, President of Centric Software. “We’re looking forward to supporting the A&F Co. team achieve their strategic digital transformation goals and fulfill their ambitions to create more localized, optimized regional assortments for their global consumer base.”

Digital Twin in the Building Stock: Real Estate Manager BENO relies on dTwin by the Nemetschek Group

13 June 2024

The industrial real estate manager and developer BENO Holding AG has opted for dTwin from Nemetschek. dTwin is the innovative platform for networked and visual intelligence and visual analytics for buildings. The solution bridges the gap between planning, construction and operation and enables building managers to make better, data-driven decisions. The aim of BENO is to create digital twins of all existing buildings in the portfolio and thus to take their management to a new level.

BENO Holding AG, based in Munich, owns, manages and rents out light industrial real estate throughout Germany. These are warehouse and logistics properties that contain additional space for production or offices. BENO's aim is to maintain existing buildings and transform them to meet the needs of their tenants. Most of the buildings in BENO's portfolio were built before the year 2000, so the data situation is correspondingly very analog. “Due to the age of our buildings, it is often difficult to determine certain parameters. However, these are absolutely essential for conversions or new lettings,” says Michael Bussmann, CEO of BENO Holding AG.

The use of dTwin enables BENO Holding to create complete digital twins. In addition to the digitalization of all building information, this brings a wide range of economic and ecological benefits such as virtual tours, more efficient planning and execution of conversions, improved data analysis, for example in fire protection, optimized resource management and simpler maintenance and servicing.

“We see ourselves as a pioneer in the digitalization of operational real estate and are constantly working to improve collaborative processes. This saves us time and, in particular, reduces CO₂ emissions. This is where dTwin fits perfectly into our corporate philosophy. We are convinced that dTwin will help us to further drive forward the transformation of our buildings and take building management to a new level. This will benefit everyone involved, especially our tenants,” says Michael Bussmann.

In dTwin, all existing models of a building can be collected and visualized on a single platform and supplemented with laser scans and panoramic photos. This creates walk-through models in which the condition of a building can be called up at any time using real-time data from IoT sensors. The digital twin can thus be used for virtual inspections or the optimization of energy management, for example.

“We are delighted that BENO has decided to use dTwin. Michael Bussmann and his team have a clear idea of what they expect from a Digital Twin and have worked with us to create the best possible setup. Since every building is different and every operator has different needs, it was important for us to define dTwin optimally for the requirements of the BENO Group and to set it up in such a way that it can be easily adapted to different scenarios,” says César Flores Rodríguez, Chief Division Officer Planning & Design and Digital Twin at the Nemetschek Group. “The cooperation with BENO shows that we have succeeded in this. We are also gaining valuable insights into the further development of dTwin in order to increase its benefits even further. We are convinced that everyone involved will benefit from this close cooperation.”

ILIA Taps Centric PLM to Enable Growth and Navigate Supply Chain Disruptions

12 June 2024

Centric Software® is pleased to announce that clean cosmetics company ILIA has selected Centric PLM™ to drive efficiency to streamline growth. Centric Software provides the most innovative enterprise solutions to plan, formulate, develop, procure, manufacture and sell consumer goods products such as cosmetics & personal care, food & beverage, fashion and multi-category retail to achieve strategic and operational digital transformation goals.

Headquartered in Laguna Beach, California and established in 2011, ILIA Beauty is a leader in the clean beauty space. Founder Sasha Plavsic sought to recreate a favorite lip balm with safe and effective ingredients. The line has expanded to include a broader range of cosmetics for lips, eyes and skin. Products are sold via branded websites in the US, Canada and the UK. Distribution is also through wholesale and retail partners like Sephora, Space NK and Oh My Cream.

The company has experienced rapid growth. Chief Operating Officer Karl Trepanier says, “We’re widely distributed in Europe so we must comply with the EU regulations. When considering new markets that have varying and rigorous legislative requirements, we need to have a much better handle on everything related to the composition of our products, ingredients, formulations and packaging materials to meet environmental regulations in those markets.”

Ten different functions within the company created a ‘wish list.’ The selection team evaluated the vendors under consideration, checking off the boxes which had to do with bringing value, categorizing information, cosmetics regulation, formulation software and so on. “The vetting exercise took at least six months before finally landing on Centric so easily,” says Trepanier. “Centric PLM met the greatest number of criteria, had the most user-friendly interface and a cohesive workflow approach to how we already go about developing products.”

“Another point in Centric’s favor is the connector to FoodChain ID/Decernis, the global food safety and regulatory data company, which we plan to use in our compliance process to replace shared drives, spreadsheets and manual data entry,” adds Trepanier.

Performing a cosmetics ingredients check is incredibly time consuming and data can be missed while searching in various places for information. Consumer inquiries or regulatory bodies asking for proof of compliance requires fast action. Says Tranpanier, “We need to quickly and

confidently access any data related to ingredients. This is the new reality of managing our business.”

“With Centric PLM we can catalog product information in a standardized manner and readily access ingredient data. We’ll have visibility into parts of the process that we don’t today.”

Trepanier’s advice to other companies: “For anybody considering PLM implementation, it’s a significant change management project. It must be taken on as such from the CEO on down, to make PLM successful and have it become the way-of-working for the company going forward. We know we have the best partner in Centric Software to take this on.”

CEO of Centric Software Chris Groves says, “We are honored that ILIA has selected Centric PLM. Our consumer goods expertise and functionality in the cosmetics space, including the regulatory piece, are important to this growing global company and we look forward to our continued association.”

Laerdal Medical selects IFS Cloud to drive growth and transition to new business models

13 June 2024

IFS, the leading technology innovator in cloud and Industrial AI software, announced that Laerdal Medical, the Norway-based healthcare education and medical simulator provider with 2000+ employees, has chosen IFS Cloud as its global ERP platform.

With subsidiaries around the world, Laerdal needed an integrated IT platform to provide a single version of truth across its operations. IFS Cloud will provide the healthcare manufacturer with consistency over its business processes globally whilst also supporting scalability as it continues to grow its operation and migrate toward subscription-based services and implement a configure-to-order business model.

IFS Cloud will provide Laerdal with the agility required to navigate this transition and manage the late-stage customization and shorter lead times that the new business model will demand, all while improving customer satisfaction. Laerdal will be able to leverage the composable nature of IFS Cloud to better integrate new and emerging technologies, including embedded AI and advanced automation capabilities, to further enhance its service offerings into the future.

Simon Dreyer, Corporate IT Director at Laerdal Medical, said "In the face of customer demands, changing regulations, supply chain disruption, and our commitment to sustainable solutions, it is critical for Laerdal to rapidly support new business capabilities required to achieve our ambitions. On our mission to helping save lives, our partnership with IFS and the implementation of IFS Cloud are key strategic components of leveraging technology through a partner that is committed to delivering cutting-edge technology on a continuously evolving platform."

The IFS ERP solution will be rolled out to all Laerdal's sites globally, including production facilities in Norway, the United States, Mexico, and China. The solution will support multiple core business processes across these sites from supply chain management, to procurement, warehouse management and finance.

Glenn Arnesen, President of Europe North & Central at IFS, said, "Laerdal's mission is to improve healthcare quality around the world by providing the industry with high-quality simulation and resuscitation equipment backed by leading education and training. Accessing the latest innovative technology is key to fulfill that vision and we are excited to have the opportunity to help Laerdal on their journey. With IFS Cloud, they are set to remain at the forefront of their industry in the years to come."

Nordic Service Partners Orders Up Oracle Cloud for its KFC Restaurants

12 June 2024

Nordic Service Partners (NSP), one of the largest quick-service restaurant operators in Sweden and Denmark, is using Oracle Symphony Cloud Point of Sale (POS) to support its rapid growth. With Oracle's modern restaurant platform, NSP has been able to expand digital ordering and delivery channels and enhance reporting across its 19 KFC franchise locations. With a single integrated platform for its operations and data, NSP can now get the information it needs to make business decisions faster while simplifying workflows for both its front-and back-of-the-house employees.

"Oracle helped us reduce the technical barriers to business growth by unifying our inventory and sales data across our restaurant portfolio into a single dashboard," said Patrik Eliasson, head of IT, NSP. "Together with the advanced analytics and reporting in the system, we can easily track the most popular items down to each location and ordering channel. This enables us to be able to better plan for inventory and staffing based on buying projections so our customers have a great experience no matter how, when, or where they order."

NSP has equipped its KFC quick service restaurants with Oracle Workstation 6 POS terminals and Kitchen Display Systems to modernize its operations and provide a consistent, reliable technology experience for its staff. Utilizing the expansive library of validated restaurant integrations on the Oracle Cloud Marketplace, NSP has also integrated new online delivery channels and plans to expand customer-facing ordering options to include kiosks and counter service orders.

"Customers today expect a modern, fast dining experience whether they are ordering in person or online," said Simon de Montfort Walker, executive vice president and general manager of Oracle Food and Beverage. "With Oracle, NSP has given its kitchen and front-of-house staff the technology and tools needed to do their jobs more efficiently with real-time insights into their sales channel performance, so they can continually refine how the company does business to better service customers and the bottom line."

Roadzen Onboards New Commercial Auto Insurance Partner in India, Projected to Deliver Over \$10 Million in Annual Revenue

12 June 2024

Roadzen Inc. ("Roadzen" or the "Company"), a global leader in AI at the convergence of insurance and mobility, announced a significant partnership with a leading commercial auto-focused agency network in India. This alliance onboards over 1,200 agents in 18 states across

India to the Roadzen platform and aims to deliver coverage for more than 300,000 vehicles annually. This collaboration is projected to generate approximately \$65 million in gross written premiums annually, adding upwards of \$10 million to Roadzen's annual revenue run rate over the next year.

According to the World Bank, India's economy is the fastest-growing large economy in the world, with the Reserve Bank of India projecting GDP growth rate of around 8% in 2024. Rising consumer demand and income levels have fueled it to become the third-largest car market globally, with over 4.2 million new vehicles sold last year. Additionally, GlobalData predicts the auto insurance market in India is set to grow at a CAGR of 7.9% from 2024 to 2028, one of the fastest rates in the world.

Roadzen's platform will offer these channel partners an enhanced selling experience, featuring real-time quote options from multiple carriers and risk-matching algorithms for commercial auto policies. It will also streamline the claims process from the first notice of loss to final dispensation within minutes, a service that most insurance intermediaries cannot offer their customers today. Commercial fleet owners will also benefit from adding Roadzen's advanced technology to address major pain areas, such as accident prevention using software or video telematics and proactive roadside assistance in times of need.

Rohan Malhotra, Founder and CEO of Roadzen, stated, "This partnership continues our mission to advance the insurance ecosystem, including addressing distribution needs, which is a large part of the auto insurance economy. While India's strong economy supports such agency networks, the need for advanced technology, capital, and access to larger clients is crucial for their sustainable growth. Roadzen is ideally equipped to provide these essential resources, offering a next-generation platform that enhances the entire auto insurance ecosystem—from policyholders and insurance carriers to auto manufacturers and fleet owners. This is the first step forward in a partnership that we will look to grow from strength to strength."

Tata Technologies accelerates Mitsubishi Electric India's digital transformation journey with SAP S/4/Hana implementation, delivering enhanced operational efficiency

11 June 2024

Tata Technologies, a global product engineering and digital services company, announced, the successful deployment of SAP S/4 HANA for Mitsubishi Electric India Pvt. Ltd., marking a significant milestone in Mitsubishi Electric India's journey towards digital excellence. This strategic collaboration has been instrumental in enhancing operational efficiency and setting new benchmarks in the industry.

In a concerted effort to streamline and unify its business processes, Mitsubishi Electric India approached Tata Technologies. Known for its deep manufacturing domain expertise, Tata Technologies reimaged and integrated business operations by deploying SAP S/4 HANA, leading to a remarkable 15% enhancement in operational efficiency. Considering the wide-range expansion of multiple business units, Mitsubishi Electric India aimed to migrate from the existing SAP ECC system to the advanced S/4 Hana cloud services, seamlessly integrating all

business functions. The project also included incorporating digital signatures and configuring document management system servers. This intricate task had to be completed within a stringent timeframe, including the mapping of entire business processes across their business units.

Leveraging its global footprint and a diverse team of experts, Tata Technologies facilitated a seamless SAP S/4 HANA implementation for Mitsubishi Electric India within an 11-month timeline, achieving a 25% reduction in the original schedule. This involved leveraging Tata Technologies' cross-functional teams for business process rationalization, and digital accelerators, such as pre-configured templates for the manufacturing industry, pre-built authorization matrix, EDI solutions, SAP MES integration connector, data migration & validation tool, and reusable automation test scripts. The project integrated multiple business units, including Factory Automation Systems, Air Conditioning Systems, and Semiconductors & Devices. It aligned with the recent operational commencement of the Factory Automation & Industrial Division's new manufacturing facility in Talegaon, Pune. The successful S/4 HANA deployment has streamlined core processes, enhancing operational efficiency by 15%, data visibility, and agility, thereby providing a unified data source for better decision-making based on real-time information. Tata Technologies commits to delivering annual maintenance services (AMS) for the next three years to ensure continued excellence.

Commenting on the collaboration, **Mr. Warren Harris, CEO & Managing Director, Tata Technologies**, said, "This project with Mitsubishi Electric India is a testament to Tata Technologies' mission of helping manufacturing companies worldwide conceptualize and manufacture better products. We leveraged our global teams in the manufacturing domain to reimagine the entire business process and implement SAP S/4 Hana, which delivered enhanced operational efficiency. This project exemplifies our One Team with Customers approach, further enhancing our client's competitive edge."

Mr. Kazuhiko Tamura, Managing Director at Mitsubishi Electric India Pvt. Ltd., on the successful implementation, expressed his satisfaction, stating, "Digital transformation of our operations is a strategic focus area for Mitsubishi Electric India, aimed at enhancing the operational efficiency. Our collaboration with Tata Technologies has been pivotal in achieving our digital transformation objectives ahead of schedule, significantly boosting our operational capabilities and setting a new direction for our future growth. As we embark on our journey to embrace digital transition with SAP S/4 Hana implementation, we strengthen our commitment to redefining our business processes for efficiency and agility. This strategic initiative reflects our relentless pursuit of excellence and innovation to serve the best for our customers and stakeholders."

Valeo Partners with Dassault Systèmes to Accelerate the Digitalization of Its R&D

11 June 2024

Valeo, a world leader in mobility technologies, and Dassault Systèmes announced their partnership. Valeo will rely on Dassault Systèmes' "Global Modular Platform" and "Smart, Safe

& Connected” industry solution experiences based on the 3DEXPERIENCE platform to accelerate the digital transformation of the Group’s research and development activities.

Valeo will deploy Dassault Systèmes’ 3DEXPERIENCE platform to more than 15,000 users across the Group to manage growing product complexity and contribute to Valeo’s leading offer in terms of software and hardware solutions for electrification, advanced driving assistance systems and lighting.

With the 3DEXPERIENCE platform, multiple activities across Valeo will be able to capitalize on existing legacy data to boost innovation and take informed decisions leveraging intelligent data by benefiting from technology on the platform that is always up-to-date.

“At Valeo, we are proud to be the key innovation partner of our clients. Our more than 20,000 engineers develop innovative solutions combining hardware and software and leveraging AI to make tomorrow’s mobility safer and more sustainable. Thanks to our partnership with Dassault Systèmes, our teams will have more efficient solutions enabling digital continuity to support our world leading R&D activities,” said Christophe Périllat, Chief Executive Officer, Valeo.

“The automotive industry is highly competitive, and companies continually strive to address the imperative of sustainability and generate experiences that consumers love. We’re elevating our long partnership with Valeo to foster this spirit of innovation and further support its transformation to a tech company for the automotive industry,” said Pascal Daloz, CEO, Dassault Systèmes. “Creating new mobility usages and universes of experiences requires proven capabilities for styling, electrification and software-defined vehicles. Our 3DEXPERIENCE platform is this differentiator. It leverages the power of generative AI to connect models from science to data from experience, along the full lifecycle of the vehicle.”

Product News

Anark 4.5.85 Release Announcement

11 June 2024

Anark announces that Release 4.5.85 of our technical content collaboration platform for manufacturers is now available and includes new features, enhancements, and updates based on customer feedback and industry demand. Releases occur every 4-6 weeks and can be immediately applied to SaaS, on-prem and desktop installations. Anark’s agile release process delivers continuous value improvement to their customers and additional information can be found in release documentation.

Anark Release 4.5.85

Anark Collaborate Enhancements

Low-Code Content Template API

Anark is pleased to announce that our new low-code templates for technical content presentation and interaction fully complete with Release 4.5.85! Low-code template capabilities have been in beta while we expanded and tested with the help of early adopters

providing feedback. Now complete, the low-code template API for Anark Collaborate delivers a way to easily define and manage a wide array of forward-compatible technical content experiences.

Anark customers have a large amount of technical content based on existing web templates with an assortment of layouts and behavior defined over years. The low-code approach provides a simpler way to manage layout, presentation and behavior for both legacy and future content management and collaboration requirements. Based on over a decade of experience developing 3D PDF and custom web-based solutions with our customers, these new low-code templates bring tailor-fit content experiences to standard web browsers from laptops to mobile devices without the need for any special plug-ins or add-ons.

We are excited to offer the new low-code templates that go above and beyond our legacy template capabilities, shown in Figure 1 below. Legacy template can now be replaced with the low-code template approach. Anark understands that there are many ways technical data will be defined and presented that spans 3D Model Based Definition CAD models, 2D Drawings, documents, images, videos, animations, structured data and more within a technical data publication. Anark customers can now develop specific user interface experiences while ensuring forward compatibility. This is the next generation of content management and collaboration for manufacturers!

Low-code templates include interactive web-based documentation that allows you to quickly define your unique template configuration and to construct and configure widgets using a “building block” approach that is flexible and easy to adjust over time. Below in Figure 2 is an example of the documentation where Anark provides example widgets and how they can be used. For example, if a template needed "Measurement Tools", the appropriate widget could be included in the template, configured and enabled. This gives customers the flexibility to tailor content experiences to fit various internal and external stakeholder needs, or business rules. Perhaps one template for team members who can take measurements of product designs, and one template to prevent measurements (and reverse engineering) from ever happening. Combined with role-based access control, it's easier than ever to manage content experiences across various groups.

By providing a widget and building block approach, Anark customers fully control the style and complexity of the technical content they publish today and expand over time as their needs evolve. Other advantages include; guaranteed forward version compatibility, built-in template validation, search, advanced printing options, animations that can be useful for work instructions and more. And for those just getting started, we have a standard set of base templates that offer the most common functionality our customers enjoy.

Measurement of 3D CAD Models

Visualizing and verifying 3D CAD Measurement is essential for engineering design reviews and other types of collaboration. Measurement enhancements within Anark Collaborate now provide linear vertex to vertex, radial or object occurrence (product component placement) on technical content. Measurement mode can be added to any content experience via the low-code template API, or made accessible via a hotkey.

Measurements are displayed as a hybrid 3D/2D presentation of markup information where the item being measured is highlighted along with the measurement value.

Radial measurement can determine the center of the circle and diameter.

Additional measurement can also continue after capturing the diameter and location of the first radial to show the distance between multiple radial features.

Object occurrence measurement will isolate the component within any complex product to show the exact positioning. When sharing product designs with suppliers and partners as they collaborate on form, fit and functionality, the power of having this information at the fingertips of everyone via standard web browsers is invaluable to avoid manufacturing issues. Anark Collaborate can show the positioning, highlight the item being measured graphically and within the BOM list.

Work continues to improve measurement capabilities in upcoming releases and when combined with lo-code templates, provides a powerful web based, mobile first user experience for engineering, manufacturing and product service collaboration.

Role Based Access Control (RBAC) enhancements:

In Release 4.5.82 Anark unveiled the future of how we control access to information with Role Based Access Controls. This capability continues to be enhanced and expanded to assure that content is only available to the people or groups that should be allowed to view and collaborate with specific technical data. This is often based on roles or responsibilities inside a company, or within their supply chain. Anark Collaborate can sync and coordinate with existing Identity Management or other authoritative systems.

In this current release, the role based access control administrator user interface now includes details on the content items, classifiers, users, and groups that are associated with a role. This information has been stored and could be found via administrator API calls previously but, it now has an interface that enables auditability of role access and assignment more directly.

Anark Publish Enhancements

PLM Integrations Enhancements:

Several enhancements have been made to Anark Publish and specifically, the PLM integrations for Windchill and Teamcenter in Release 4.5.85 to improve time to value for complex PLM integration and data publishing. The theme of the below is more efficient handling of publishing issues where large products or datasets have a limited number of problems that can be resolved and a re-publishing process can then be executed to completion. This eliminates the all-or-nothing proposition of many technical data publication systems where a single item within a complex product can cause the entire publication to fail. Capabilities include:

Teamcenter Integration:

- Re-publishing capability for handling the addition or removal of components from initially selected objects. This allows users to modify an input package while re-publishing.

- Re-publishing capability to support BOM changes (addition/deletion of components) in structure. This capability is supported for both package publishing and single item revision publishing.
- Trigger republishing using the existing Teamcenter Rich Application Client (RAC) menu and Workflow handler.
- Create and share a summary report via email after republishing completes.

Windchill Integration:

- Re-publishing capability for addition and/or deletion of components for WTPart business object while hierarchical publishing.
- Re-publishing capability for addition and/or deletion of components for EPMDocument business object while hierarchical publishing.

Aras Introduces New Supplier Collaboration Solutions

13 June 2024

Aras, a leader in product lifecycle management (PLM) and digital thread solutions, announced the availability of its new Supplier Management Solutions for Aras Innovator®. This suite of applications streamlines collaboration, assessment, and connectivity with suppliers and OEMs by providing secure, remote access to controlled subsets of digital thread and PLM information through configurable mobile-optimized web applications.

Addressing Industry Challenges

Product oriented organizations rely on suppliers and business partners as extensions of their operations. In recent years, the supply chain has experienced increasing pressure from strict compliance regulations, new sustainability initiatives, and an increased focus on transparency. For example, the Digital Product Passport initiative in the European Union strives to promote sustainability and sourcing transparency by mandating tracking and reporting guidelines for a range of industries starting in 2026. Many organizations struggle to meet these demands due to outdated systems, limited visibility into partner information, and inconsistent communication with supply chain partners.

Streamlined Supplier Collaboration with Aras' Unified Secure Environment

Aras' Supplier Management Solutions empower organizations to collaborate more effectively with suppliers and OEMs via a unified secured environment, allowing all users access to a single set of processes and data that is up to date. By facilitating communication, data sharing, and connectivity across the full lifecycle of product development, organizations can achieve better visibility, data analytics, and efficiency. They can also reduce inventory and overhead costs, while improving quality control.

“The integration of Supplier Management Solutions with Aras Innovator offers manufacturers a holistic approach to managing the entire product lifecycle, from design and development to procurement and production,” said John Sperling, SVP of Product Management, Aras. “By leveraging automation, collaboration, and data-driven insights, our customers can achieve

greater efficiency and agility in managing their business while addressing compliance and sustainability objectives across product lifecycles.”

Key Features and Benefits

- **Controlled Access:** Provides secure, remote access to relevant PLM information for suppliers and OEMs. This reduces program delays and ensures timely enhanced communication and trust between all users.
- **Streamlined Communication:** Facilitates bi-directional communication and threaded discussions between organizations and suppliers, resulting in quicker, better and transparent decision making. Inform suppliers of risks, changes to shipping addresses or company policies by sending Buyer Notices.
- **Configurable Applications:** Customized mobile-optimized web applications to meet specific business needs and support processes, improving flexibility, productivity and performance.
- **Document Sharing:** Allows sharing of relevant supplier documents such as CAD files and product specifications to all stakeholders trusting in one source of truth. This results in improved pricing, timing and quality from suppliers.
- **Platform Security and Compliance:** Ensures a secure, traceable bi-directional exchange of information between supply chain partners. With automated processes for supplier quality and risk management, organizations can effectively address compliance issues and regulatory risks, maintaining consistent quality standards across the supply chain.
- **Measure Supplier Performance:** Monitor supplier performance with supplier scorecards allowing Buyers to compare and make more informed sourcing decisions. Issue suppliers corrective action requests (SCARs) and track progress through collaborative workflows.

Availability and Resources

Aras' Supplier Management Solutions are available now. Watch their recent webinar, Enhance Collaboration: Securely Share Product Data with Your Suppliers, to learn more about this suite of applications.

AVEVA Unveils New InTouch Unlimited HMI/SCADA Capabilities and Pricing Structure

11 June 2024

AVEVA, a global leader in industrial software driving digital transformation and sustainability, announced updated capabilities and commercial models for their award-winning InTouch Unlimited HMI/SCADA software. New features, optimized commercial models, and pricing make it easier for end users, original equipment manufacturers (OEMs), and systems integrators (SIs) to develop and scale HMI/SCADA applications from edge-to-cloud, with the ability to incorporate analytics and CONNECT, AVEVA's industrial intelligence platform.

AVEVA InTouch Unlimited empowers system integrators with the most comprehensive suite of HMI/SCADA technology available in the market today. It is an all-inclusive licensing package

available in perpetual and subscription models with unlimited tags, clients, and scalability. The InTouch Unlimited package features comprehensive process historian and reporting functionality, equipping users with the ability to collect and unlock the value of data sourced at the edge, and from multiple plants and systems spanning the enterprise. The modernized development tools are now available free of charge and include prebuilt templates to accelerate design productivity, as well as simplified tag and application development workflow leveraging industry standard protocols such as OPC-UA and MQTT.

SIs and users can easily develop, deploy, and scale HMI/SCADA applications using InTouch Unlimited. As a component of the broader AVEVA Operations Control software portfolio, InTouch Unlimited can utilize hybrid-cloud architecture to easily integrate AI features such as predictive quality, throughput, and energy efficiency into traditional HMI/SCADA applications. By pairing AVEVA Operations Control with CONNECT, developers can consolidate operations data from various production lines, plants, and value chains. This provides a centralized view of operations and allows the system to scale with business growth without the need for application redevelopment.

InTouch continues to be an innovation leader in HMI/SCADA since the technology's inception over three decades ago. AVEVA is committed to delivering products that make it easy to evaluate our software portfolio, develop tailored solutions, and scale to meet growing business needs. **Doug Warren, AVEVA's Senior Vice President, Monitoring & Control Business**, emphasizes this user-focused approach. "AVEVA InTouch Unlimited provides unprecedented value for our system integration partners," says Warren. "This new offer, coupled with our focus on technical enablement through the Heroes HQ forum and bite sized video-based training content, makes choosing AVEVA HMI/SCADA products easier than ever."

Cadence and Samsung Foundry Accelerate Chip Innovation for Advanced AI and 3D-IC Applications

12 June 2024

Cadence Design Systems, Inc. announced a broad collaboration with Samsung Foundry that includes technology advancements to accelerate design for AI and 3D-IC semiconductors, including on Samsung Foundry's most advanced gate-all-around (GAA) nodes. The ongoing collaboration between Cadence and Samsung significantly advances system and semiconductor development for the industry's most demanding applications, including AI, automotive, aerospace, hyperscale computing and mobile.

Through this close collaboration, Cadence and Samsung have demonstrated the following:

- Cadence.AI enables lower leakage power and development of SF2 GAA test chips: Cadence, in close collaboration with Samsung Foundry, has leveraged the Cadence® Cerebrus Intelligent Chip Explorer and its AI technology in both DTCO and implementation to minimize leakage power on their SF2 GAA platform. Compared to the best-performing baseline flow, the Cadence.AI result achieved a more than 10% reduction in leakage power. As part of this ongoing collaboration, a mutual customer is actively involved in the development of a test chip using Cadence.AI for an SF2 design.

- Cadence backside implementation flow certified for Samsung Foundry SF2: As a result of extensive collaboration between Cadence and Samsung Foundry, a complete Cadence backside implementation flow has been certified for the SF2 node to accelerate the development of advanced designs. The full Cadence RTL-to-GDS flow, including the Genus™ Synthesis Solution, Innovus™ Implementation System, Quantus™ Extraction Solution, Pegasus™ Verification System, Voltus™ IC Power Integrity Solution and Tempus™ Timing Signoff Solution has been enhanced to support backside implementation requirements such as backside routing, nano TSV insertion, placement and optimization, signoff parasitic extraction, timing and IR analysis, and DRC. The Cadence backside implementation flow has been validated with a successful Samsung SF2 test chip, demonstrating the flow is ready for use.
- Cadence has collaborated with Samsung Foundry to enable solutions for Samsung Foundry's multi-die offerings: The Cadence Integrity™ 3D-IC platform is enabled for all of Samsung's multi-die integration offerings, and its early analysis and package awareness features are now compliant with Samsung's 3DCODE 2.0 version. In addition, Cadence and Samsung have expanded the multi-die collaboration by enabling differentiating technologies like thermal warpage analysis using the Cadence Celsius Studio and system-level LVS with Cadence Pegasus Verification System. Cadence is also supporting Samsung with a package PDK that reduces design time with the Allegro X system. Combined with the Integrity 3D-IC platform, it optimizes the package design flow.
- Cadence.AI's Virtuoso Studio flow successfully deployed for analog circuit process migration: Purpose-based instance mapping in the AI-powered Virtuoso Studio provided rapid retargeting of the schematics, while circuit optimization in Virtuoso Studio's Advanced Optimization Platform helped Samsung achieve a 10X improvement in turnaround time when migrating a 100MHz oscillator design from 14nm to 8nm. In addition, a FinFET-to-GAA analog design migration reference flow is available for joint customers, with successful experimental results.
- Cadence mmWave RFIC design flow successfully used to tapeout 14RF circuit design: Cadence and Samsung successfully taped out a 48GHz power amplifier design, representing silicon validation of the robust, full system reference flow that leverages the Cadence EMX Designer to create passive devices with fast modeling and layout automation. Full design EM extraction with the EMX 3D Planar Solver and EM/IR analysis using Voltus XFi and Quantus ensured that the IC met aggressive metrics, Pegasus was used for signoff DRC/LVS, while AWR VSS provided a seamless environment to carry out initial system-level budgeting and post-layout verification. Mutual customers can feel confident utilizing this flow to deliver leading-edge designs to market in a timely manner.
- Cadence Pegasus Verification System is certified for Samsung Foundry's 4nm and 3nm process technologies: Through the collaboration with Samsung Foundry, the Cadence physical verification flow is optimized to allow mutual customers using Samsung

Foundry's advanced nodes to reach signoff accuracy and runtime goals for a faster time to market. The Pegasus system is now certified across multiple advanced nodes at Samsung Foundry, which are proven and in production by customers, with simplified, all-inclusive licensing support. The Pegasus system is integrated into the AI-powered Cadence Virtuoso Studio as iPegasus to enable in-design signoff quality DRC and interactive metal fill in the layout implementation, offering up to 4X faster turnaround times.

- Cadence IP portfolio offers comprehensive industry solutions on advanced Samsung nodes:
 - Cadence's latest IP built on Samsung SF5A includes industry-leading PHY IP for 112G-ULR SerDes, PCIe[®] 6.0/5.0, UCIe[™], DDR5-8400, DDR5/4-6400 Memory and USB 2.0, offering customers complete platform solutions
 - Cadence's PHY IP for PCIe 6.0 on Samsung SF5A has been successfully certified for PCIe 5.0 x8 compliance and demonstrated seamless interoperability with other PCIe 5.0/6.0 system and test equipment, further showcasing its PCIe solution maturity
 - Cadence is furthering its partnership with Samsung Foundry by pushing the performance envelope, designing advanced memory IP for GDDR7 on Samsung SF4X and SF2, and helping reshape the HPC/AI industry with this new memory standard.
- Advanced verification for AI design complexity: Samsung Foundry applied Cadence's advanced verification technologies, such as the Palladium Enterprise Emulation System, JasperC, STG, and Xcelium ML, to tackle rising AI chip complexity and achieve time-to-market requirements in SF3.

"We are honored to partner with Samsung, a true example of a chips-to-systems company, to bring this technology for our joint partners to design the next generation of intelligent systems," said Tom Beckley, senior vice president and general manager in the Custom IC & PCB Group at Cadence. "The hyperconvergence of AI with modern accelerated compute requires a strong silicon infrastructure. With these new AI-powered, certified design flows and standardized solutions, mutual customers can confidently design for Samsung advanced nodes while achieving their design and time-to-market goals."

"Samsung and Cadence have a close collaboration to advance technology and help our customers deliver competitive designs to the market efficiently," said Sangyun Kim, Vice President and head of Foundry Design Technology Team at Samsung Electronics. "Our joint efforts enable customers to utilize Samsung's latest process and technology innovations to push the limits for the most advanced AI, hyperscale computing and mobile SoC designs."

Cadmatic - New software release 2024T2

14 June 2024

The latest version of Cadmatic software (2024T2) is absolutely packed with exciting new features. We've made designers' lives easier and elevated the user experience to a whole new level!

Top Picks – what we are most excited about in 2024T2!

Outfitting/3D Plant Design

- **P&ID View Integration:** With the new P&ID view in Plant Modeller and Outfitting applications, users can insert valves and equipment directly from the P&ID view into the model. Pipe routing can now start directly from the P&ID drawing, providing a clear view of what is and isn't in the 3D model.
- **Hull Insulation Visualization:** Outfitting designers can now view hull insulation within the outfitting model, enhancing accuracy and design efficiency.
- **Data Protection Policies:** Implement new policy settings to prevent unauthorized CX exports and protect modifications to the library, ensuring data security and integrity.

P&ID

- **Electrical Instrument Integration:** Seamlessly integrate instrument data from P&ID to Electrical with our new feature. The enhanced mapping definition ensures that relevant and desired data is easily accessible to electrical designers, streamlining the workflow and improving data accuracy.

Hull

- **Insulation Design:** Introducing our new insulation feature, which allows users to design and optimize the thermal and acoustic insulation of ship structures. This enhancement helps reduce energy consumption, improve onboard comfort, and ensure compliance with regulations.

WBD Shop Manager: Our new WBD Shop Manager feature enables comprehensive planning and monitoring of the production process. By coupling location information on the shop floor with WBD branching naming, each part and assembly follows the correct production path in the correct order, boosting efficiency, quality, and traceability.

Information Management

- **Document markups in eShare:** To strengthen the collaboration capabilities in eShare, you can now add document markups to any document viewed in eShare. Document markups can contain shapes, lines, arrows, text, and highlights to emphasize parts of the document and can then be shared with others in the project, who can view, edit, or add to the document markup.

- **Touch support in eShare:** eShare in a browser now offers support for using touch controls in tablets and other touch-controlled devices. Touch support enables using eShare wherever you are: a construction site, a plant — whenever you need it.

Electrical

- **Symbols window for CADMATIC Electrical Lite:** Electrical Lite users now have the possibility to select, insert, and edit symbols in the Symbols window, taking the workflow to the next level! Furthermore, the introduction of the favorite symbol list makes your go-to symbols just a click away!
- **Symbol selection for protective devices:** In the feeder dialog, users can now add symbols directly to protective devices. These symbols are dynamic, which means their appearance automatically changes as needed.
Wiring references and info insertion: Users now have the possibility to add information such as device descriptions and IDs for wiring references and incorporate the information into the drawing. Additionally, the information is also available in the DB tool, allowing for easy editing of larger amounts of data in a single view!

Centric Software Unveils New Innovations and China-focused Customer Success Team at Shanghai Summit

13 June 2024

Centric Software® has concluded a successful two-day ‘cycle of excellence’ summit in Shanghai, titled ‘Renewing Together, Going Forward Together.’

Nearly 400 Centric customers, partners and industry experts were immersed in Centric Software’s take on China’s consumer goods industry. Over 20 speakers from leading fashion, sports, food, cosmetics and other consumer goods companies and industry experts shared extraordinary insights into consumer goods trends and corporate practices.

Joe Groves, Senior VP of Global Sales, gave the keynote speech. According to Groves, the retail industry is undergoing changes with drastic reductions in time-to-market and that Centric provides end-to-end solutions to address this. “Centric gives customers a seamless experience through an AI-driven integrated platform for PLM, planning, pricing, inventory optimization and competitive market intelligence.” He stressed the importance of the Chinese market, “China is one of the largest and fastest-changing retail markets in the world, and it is also one of Centric’s largest customer groups.”

Groves thanked the 120+ customers in China for their support and shared Centric’s future market expansion, community development and development vision to empower Chinese retailers, brand and manufacturers to succeed both in the Chinese market and abroad.

Highlights from the summit include several key takeaways:

1. Centric’s philosophy of ‘best customers, best solutions and best team’ is the springboard to enabling Chinese companies to navigate constantly changing market conditions.

Speakers from companies like WIN Garment, AIMER, Starpro and JINJIA discussed hot business topics like brand globalization, creating e-commerce bestsellers, new product iteration, new product R&D and consumer insights. The real-life case studies enlightened and inspired the attendees.

In China, Centric has 82% of the consumer product PLM market share, a 99% customer satisfaction rate and 95% customer repurchase rate. There has been 20% YOY growth of Centric Software in China since 2014. These shining figures are not only market recognition for Centric, but the result of Centric's presence in China for ten years.

The Centric China team covers 15 major industry segments and 6 business model systems. From fashion, footwear, accessories, multi-category retail, consumer electronics to food and beverages, cosmetics & personal care, from traditional brands, to OEM/ODM to cross-border e-commerce, Centric continues to gain insights into more market segments and to provide exclusive best-practice scenarios for Chinese customers of all sizes.

2. Centric unveiled its new innovations in its product portfolio and introduced its China Customer Success Team. With 5 major product lines all integrated into the same out-of-the-box platform starting with Centric's flagship's PLM, additions to the lineup include: Centric Planning™, Centric Pricing & Inventory™, Centric Market Intelligence™ and Centric Visual Boards™. Centric Software covers the full product lifecycle from concept to replenishment for reduced time to market and optimized margins.

Product experts from Centric took the stage to present how to build better products faster and more sustainably, talking about the concept of 'industry best practices + market lead out-of-the-box technology (meaning highly and quickly configurable) + expert team = sustainable success.'

AI technology is changing the business operating paradigm and injecting new momentum into business development. Centric's 5+ year approach to AI has been to apply it to solve specific business challenges with proven ROI, as opposed to a one-size-fits-all approach.

A new round of scientific and technological revolution and industrial transformation combined with the wave of globalization have created huge opportunities for companies. These opportunities can be amplified with AI's unique ability to process vast amounts of data and variables in multiple dimensions. Through a multi-angle analysis of specific business scenarios for Chinese consumer goods companies, the sessions provided profound insights into building and strengthening global operational capabilities with AI.

3. Also highlighted is that even as maintaining profitability is becoming more difficult, the pressure on producing environmentally friendly products is also increasing.

To address this, Centric has incorporated tools to both track environmental compliance as well as own company targets that go beyond basic compliance. Reaching sustainability (or other compliance goals) can be incorporated early into the planning stage to ensure that these objectives are met throughout the ideation, development, sourcing/manufacturing and selling phases.

The summit not only demonstrates Centric's willingness and strength to strive for excellence with China's consumer goods industry, but also gave Chinese consumer goods companies the chance to network and share with each other, digital innovation best-practices.

"China plays an important part in Centric's goal of empowering consumer goods companies to digitally transform product concept to replenishment," says CEO of Centric Software Chris Groves. "Centric solutions are all market-driven and our partners in China have advanced the breadth and depth of our software, yielding better ROI, improving user interface and contributing to AI-powered innovations."

CoreLogic Reimagines Water Loss Documentation through Mitigate

10 June 2024

CoreLogic®, a leader in global property information, analytics, and data-enabled solutions, has introduced CoreLogic Restoration | Mitigate™, a water loss documentation tool that has been completely reimagined and designed with technicians in mind. Designed by a team of restoration industry professionals, Mitigate delivers a powerful workflow platform that optimizes loss documentation to match the order of operations in the field while maintaining compliance, accuracy, and efficiency.

Mitigate provides technicians with an interface that is field operation-friendly and consistent across any device and operating system, simplifying the water loss documentation process while preserving accuracy. Additional benefits include:

- Process control: Flexible and customizable loss documentation process.
- Leveraged Standardization and Compliance: Integrated ANSI / IICRC S500 guidelines and recommendations. Assure technicians are compliant from day one on the job.
- Instant project floor plans: Create accurate, LiDAR-based diagrams instantly by scanning the room with a compatible iOS device.

"At CoreLogic, we constantly challenge ourselves to innovate further, creating solutions that provide the most optimal user experience and enhance value," said Jesse Herrera, CoreLogic's Executive Vice President of Global Product & Operations, Insurance Solutions. "Built on and with instant access to CoreLogic's best-in-class property intelligence, combined with a comprehensive water loss documentation workflow designed for the entire claim ecosystem, Mitigate is a powerful solution for the industry."

Mitigate uses artificial intelligence to add tags to captured images, identifying all the structural and non-structural objects in the room. This shortens project lifecycles and infuses greater accuracy into every step of the water loss documentation process, driving improved estimates and reporting.

"For our team, the most impactful feature of Mitigate is the intuitiveness and ease of use," said Chris Nowak, CIEC, PuroClean. "How the CoreLogic team included us in the development process was valuable to us and indicated how technician-focused this design is."

Cosmo Tech introduces a dedicated Connector Library for Advanced Planning and Scheduling Software including Kinaxis, Blue Yonder and OMP

6 June 2024

As part of our continuous efforts to enhance integration capabilities and interoperability with industrial enterprise systems, we are excited to announce the latest release of our platform integration capability.

Building on our seamless integration with external data sources, business applications and enterprise systems, we are introducing a dedicated APS Connector Library that integrates Cosmo Tech AI-Simulation software with Advanced Planning and Scheduling (APS) software for optimizing industrial systems and decision making.

The Cosmo Tech APS Connector Library offers several pre-built connectors and the ability to integrate with popular supply chain planning solutions such as Kinaxis, Blue Yonder, OMP and SAP IBP. This allows decision makers to tap into the advanced AI-Simulation experiments' capabilities for better insights and informed decisions that consider uncertainties, constraints and complex trade-offs.

Furthermore, the Cosmo Tech AI-Simulation Platform provides the freedom to build custom-function connectors, ensuring ongoing data compatibility and adaptability. Users can align data and information with tailored requirements, workflows and processes, extending the functionalities of both the AI-Simulation and APS software. This customizable approach allows decision makers to have maximum flexibility and significantly enhance their abilities in solving complex supply chain challenges, ultimately driving better business outcomes.

By integrating AI-Simulation technology into existing supply chain planning software, businesses can eliminate data silos and gain an accurate and holistic view of inventory levels, supplier performance, production resources, and more. This enhanced and comprehensive view not only improves data quality and scope of analysis but also provides the flexibility to adapt to market dynamics and disruptions within the supply chain. Decision makers can make informed decisions based on accurate data and identify the best course of action for improved efficiency, risk management and overall supply chain performance.

DELTEK AND THE AIA ANNOUNCE NEWEST INNOVATIONS FOR THE A&E INDUSTRY AT THE AIA CONFERENCE ON ARCHITECTURE & DESIGN

5 June 2024

Deltek, the leading global provider of software and solutions for project-based businesses, along with the American Institute of Architects (AIA), will unveil its latest innovations for Deltek Specpoint™, the home of AIA MasterSpec® at the AIA Conference on Architecture & Design 2024 (AIA24). Specpoint Best Practices and Dela™, the AI-powered business companion that includes digital assistant capabilities, will both be front and center during the event for architecture, engineering, and construction professionals, being held in Washington, D.C. June 5-8.

During the new Expo experience on June 6 and 7, attendees will be able to see a hands-on demo of one of the latest innovations, Specpoint Best Practices. This new capability within Specpoint leverages intelligent tagging systems that simplify the application of standards across projects, significantly reducing manual tasks and potential for errors writing construction specifications. In addition, attendees will be able to demo AIA MasterSpec®, powered by Deltek Specpoint. MasterSpec is the only certified content and the most comprehensive product research and specifications resource in the A&E industry – and as a part of Specpoint, spec writing is more manageable in one easy-to-use tool.

"With Specpoint Best Practices, we are revolutionizing the way A&E professionals approach project creation," said Kevin Plexico, Senior Vice President of Information Solutions at Deltek. "It empowers users with the potential to automatically generate 80% of their specifications upon creation, freeing up that time to concentrate on the design phases. By automating the integration of firm and owner standards, preferences, and guidelines into projects, users are not only saving time but also enhancing accuracy across the board."

Deltek will also be showcasing Dela for Specpoint, an AI-powered intelligent business companion that is revolutionizing project delivery. Anticipated for release in late June, Dela's Specpoint Digital Assistant enables intelligent exploration of AIA MasterSpec® content in Specpoint, making it easier to find specs and engage users through natural language. Users can ask Dela about the differences between specifying certain materials, get an example of how to specify a particular product, and much more.

These advancements are part of Deltek's ongoing commitment to construction specification innovation and excellence, providing solutions that meet the evolving needs of the A&E industry. By harnessing the power of automation and AI, Deltek Specpoint is setting new standards for what is possible in project specification and management.

"AIA and Deltek have a history of working together to provide leadership in the architecture and building design industry, beginning with MasterSpec, and continuing with Deltek Specpoint," said Andrew Flank, SVP at AIA. "We are excited about the future of our partnership with Deltek and evolving these tools, in particular with the addition of AI."

Industry Partnerships at the AIA Conference on Architecture & Design

In addition to working alongside AIA, Deltek has a deep partnership with ConstructConnect, a leading provider of construction information and technology solutions. ConstructConnect is committed to transforming the way the commercial construction industry does business by providing tools – from bid management solutions to digital takeoff and estimating software – needed to drive success.

"Our partnership with Deltek brings building product manufacturers (BPMs) to Specpoint to list their products for specification. Innovations like Specpoint Best Practices help architects specify more easily and help the BPMs give architects the right product information for their projects. We are excited about this continued evolution and the way our combined efforts are transforming how construction specifications are created in the industry," said Jennifer Johnson, Chief Product Officer at ConstructConnect.

eCADSTAR Release 2024 Sets New Standards for Compact PCB Design

10 June 2024

Zuken announces the 2024.0 release of eCADSTAR, Zuken's next-generation PCB design system for small and medium businesses. The new release includes a number of improvements ranging from enhanced design reuse, simplified revision tracking, and more robust schematic design.

eCADSTAR 2024.0 supports PCB designers in meeting the increasing demand for compact, high-performance, energy-efficient, and environmentally friendly electronic devices. Addressing the challenge of special components like Planar Transformers or limited PCB space, the 2024 release optimizes the placement of etched parts (like resistors) on inner layers, essential for the termination of critical signals. The intuitive footprint editor allows for easy customization of size and shape, ensuring accurate resistance values and enhancing design efficiency.

Flexxbotics Announces Robot Compatibility with SICK Vision Solutions for Quality Inspection

11 June 2024

Flexxbotics, delivering workcell digitalization for robot-driven manufacturing, announced advanced robotic machine tending compatible for quality inspection connectivity with the full line of SICK machine vision technologies including 2D and 3D vision sensors and vision cameras. Now, companies can enable robot-driven manufacturing with Flexxbotics using SICK to achieve closed-loop quality and six sigma consistency in unattended operations.

Flexxbotics' breakthrough innovation, the FlexxCORE technology, enables the robots to securely connect and communicate with SICK equipment. With Flexxbotics the robots receive direct feedback based on automated inspection results enabling real-time adjustments to CNC machine programs for autonomous process control. With in-line inspection, Flexxbotics orchestrates the fleets of robots in the smart factory to achieve continuous operations enabling significant defect reductions while improving throughput and increasing profit per part.

Flexxbotics compatibility includes SICK's AI-powered Inspector83x vision system, as well as, InspectorP61x, InspectorP62x, InspectorP63x, InspectorP64x, InspectorP65x, Visionary-T Mini, Visionary-S, Ruler3000, Ranger3, picoCam2 and TriSpector1000.

"We understand that the robots need to work with the latest next-gen inspection technologies and CNC machines, as well as, older equipment that manufacturers already have in their factories," said Tyler Modelski, CTO & Co-founder of Flexxbotics. "That's why our compatibility extends to over a 1000 different makes & models of inspection equipment and other factory machinery."

Flexxbotics robotic workcell digitalization is the backbone of the Smart Factory, delivering robot-driven manufacturing at scale with autonomous process control for continuous operations. Flexxbotics solution runs both online and offline so production continues with or without internet access, and Flexxbotics works with existing business systems such as

CAD/CAM, DNC, SCADA/HMI, IIoT, MES, ERP, PLM and others for comprehensive process integration.

A full set of bi-directional communications, transforms and routing capabilities are available in Flexxbotics for the inspection tools, robots, and machinery that are connected including loading programs, sending instructions, updating parameters and status awareness depending on the machinery's capabilities so the robots drive the SICK equipment along with the CNC machines and other asset in the smart factory.

"We believe that the inspection equipment serves as the 'eyes and ears' for the robots in the smart factory running production in 'lights out' manufacturing," said Tyler Bouchard, CEO & Co-founder of Flexxbotics. "By integrating inspection vision system capabilities to robots with Flexxbotics, global companies are able to achieve continuous operations through robot-driven manufacturing with autonomous process control."

Honeywell Revolutionizes Large-Scale Battery Manufacturing With Automation Software

11 June 2024

Honeywell announced the launch of its Battery Manufacturing Excellence Platform (Battery MXP), an artificial intelligence (AI)-powered software solution designed to optimize the operation of gigafactories from day one by improving battery cell yields and expediting facility startups for manufacturers.

With traditional standalone solutions, battery manufacturers' material scrap rates can be as high as 30% at steady state and even higher during the facility startup processⁱⁱ. This practice can lead to millions of dollars of wasted energy and material while a gigafactory slowly scales to a more efficient and profitable production over several years.

Battery MXP incorporates AI techniques in the manufacturing process, which enables the detection and remediation of quality issues before they result in scrapped material. The solution then utilizes machine learning to identify conditions that lead to quality issues and turns this data into action-oriented insights that manufacturers can use to improve efficiency and productivity.

By delivering powerful data that can improve quality control and decision making on the plant floor, Battery MXP is designed to help manufacturers cut production ramp-up time, reduce startup material scrap rates by 60% and increase delivery rates to meet the growing demand for lithium-based batteries.ⁱⁱⁱ

"With Honeywell's Battery MXP and its automation capabilities, we will be able to quickly and effectively establish a foundation for our network of gigafactories," said John Kem, president of American Battery Factory. "This solution is vital in our manufacturing operation because it allows us to reduce scrap and scale up quickly, while also ensuring we meet the U.S. and international demand for high quality lithium iron phosphate batteries as we prepare for the unprecedented surge expected over the next decade."

By providing bidirectional traceability and genealogy, Battery MXP tracks battery cells from raw material to finished product in real time, helping to ensure product quality at every step. The solution also helps to address other key challenges faced by battery manufacturers by offering solutions for process controls, workforce management and thermal runaway battery fire prevention. These safety elements aid both operators in the gigafactory and end-users of the batteries to stay safe.

"The electrification of everyday life continues to increase global demand for quality lithium-ion batteries to power electric vehicles, consumer electronics and battery energy storage systems," said Pramesh Maheshwari, President of Honeywell Process Solutions. "With the construction of more than 400 gigafactories planned worldwide by 2030, Honeywell's Battery MXP is a crucial technology that enables manufacturers to maximize cell yields and reach peak production much quicker than traditional methods."

The use of automation to advance the world's electrification journey supports Honeywell alignment of its portfolio to the automation and energy transition megatrends. As a key player in the global energy transition, Honeywell is applying its complete portfolio in industrial automation, cyber secure IoT (Internet of Things), material handling, building automation and safety solutions to help battery manufacturers bring reliable products to the market as quickly as possible to meet the projected demand for battery cells.

How to manufacture solar cells and solar modules more efficiently

12 June 2024

Kontron, a leading global provider of IoT/Embedded Computing Technology (ECT), offers industrial software for cross-industry automation solutions through its subsidiary Kontron AIS GmbH. Equipped with new features, the v4.2 release of FabEagle® MES supports the efficient production of solar cells and solar modules.

The new version of the manufacturing execution system FabEagle® MES offers three important new features that are specifically designed to meet the requirements of dynamically growing solar cell and solar module manufacturing with production capacities of at least 1 GW. The MES supports the most important steps in production with traceability and process monitoring and as a result helps with quality assurance, process optimization and cost reduction.

The new version provides active transport control for configurable material deployment of complex material flow systems in solar module factories. Production routing and process machines are controlled based on product type, quality and status information. In addition to standard processes, this also includes bypass and unloading requirements. This level of flexibility allows rapid alignment with changing production requirements while optimizing production processes.

The new module defect report is a robust standardized reporting tool that enables the evaluation of product defects from inspection and rework stations at cell and string level. A heat map overview allows the data to be visualized according to location, defect code and frequency. That is how real-time monitoring can be implemented to quickly identify problem areas in production and initiate improvement measures.

Long-term data storage is indispensable for the production of solar cells and solar modules. Using the advanced data history for mass production based on data lake technology, data formats have been optimized for easy evaluation using standardized toolsets. Combined with machine data pertaining to quality, tracking and performance, this provides the ideal basis for comprehensive data analysis and process control. As a result, not only can expanded analysis functions be used, but also full compliance with quality and regulatory specifications is ensured.

iBase-t Unveils MBE Advanced: Industry-First Model-Based MES Functionality for Complex Discrete Manufacturers

12 June 2024

iBase-t, a leading provider of manufacturing, quality, and MRO solutions, announced the availability of Solumina MBE Advanced, a new offering that integrates 3D digital models across its Solumina iSeries Manufacturing Operations Platform to drive quality, efficiency, and cost savings.

Launched with the i110 release of the Solumina iSeries platform, Solumina MBE Advanced is the industry's first model-based MES solution purpose-built for complex discrete manufacturers in aerospace and defense, shipbuilding, and other critical industries. It empowers front-line workers on the shop floor with intuitive 3D work instructions that streamline production and reduce errors.

- Process planners assign components from a 3D CAD model to operations or steps within a process plan through an intuitive visual experience.
- On the shop floor, technicians leverage dynamic 3D work instructions that guide them through each operation with clear visual indicators, driving efficiency and reducing errors. The 3D model evolves with each step, reflecting the current state of the assembly.
- The 3D model is highly interactive, allowing users to maneuver, zoom into, or explode their view of the assembly as needed. Selecting a component on the model highlights the corresponding part data in other fields, aiding in the accurate execution of each step.

"MBE Advanced enables our customers to transform previously static, 2D processes into a dynamic 3D experience that digitally integrates design engineering, planning, production, and quality assurance like never before," said Sung Kim, Chief Technology Officer at iBase-t. "The ability to access a real-time, contextualized, actionable, and trackable digital view of a product throughout its lifecycle allows our customers to achieve higher levels of productivity, quality, and competitiveness, and represents a significant step towards a fully model-based enterprise."

"As model-based enterprise transformation continues to be major focus for every aerospace and defense operation, we are thrilled to announce the launch of MBE Advanced, a direct response to the critical priorities of our customers and the broader industry," said Naveen Poonian, CEO of iBase-t. "This innovation reflects our ongoing commitment to driving industry

advancements and empowering our customers with cutting-edge solutions, from AI and IIoT to the model-based enterprise. Our team has worked tirelessly to bring this offering to life, and we are proud to deliver it to our customers today.”

MBE Advanced is available now as a licensed add-on to the Solumina iSeries Manufacturing Operations Platform.

Infor Nexus Launches Map and Trace to Help Companies Demonstrate Responsible Supply Chains

12 June 2024

Infor Nexus™, the single-instance intelligent supply chain network platform providing unparalleled visibility and collaboration, announced a new product to help companies map their multi-tier supply chains and provide evidence to support compliance with regulations such as the German Supply Chain Due Diligence Act and Uyghur Forced Labor Prevention Act (UFLPA) and the French AGECE Law and to document substantiation for product claims.

This new application called Map and Trace, was co-developed with industry leader Burton Snowboards to help companies “connect the dots” between suppliers, their suppliers, and the transactional records supporting the chain of custody.

The process of mapping the suppliers and collecting the documentation is highly manual and first requires participation from the tier 1 supplier. Infor Nexus has more than 80,000 suppliers and factories in its network who are managing global trade processes for brands including Burton.

“We had sat through countless demos of other platforms and questioned who is going to manage another platform? We’ve already heard from our supply chain that ‘platform fatigue’ is real so when we heard that Map and Trace was in development, we jumped on the chance to co-develop it with the Infor Nexus team,” says Carolyn Schmidt, senior director of sourcing & production, Burton Snowboards. “We were able to develop a solution in the system where we were already managing our day-to-day supply chain.”

“We have been connecting companies to their supply chain networks to enable supply chain visibility and orchestration of global supply chain processes for over two decades. Our customers increase agility, resiliency and on time product delivery, which can reduce costs and free up working capital,” says John Gularson, SVP and general manager Infor Nexus. “Now we are extending this to provide evidence of their chain of custody. Multi-tier is a natural evolution for us.”

Map and Trace is the first application that will help Infor Nexus customers achieve greater transparency and traceability across the product lifecycle.

Informatica Announces New Product Innovations and Enterprise-Grade Generative AI Blueprint for Databricks

10 June 2024

Informatica, an enterprise cloud data management leader, announced an expanded partnership with Databricks with new product capabilities and offerings, bringing together the full range of Informatica's AI-powered Intelligent Data Management Cloud (IDMC) platform capabilities within the Databricks Data Intelligence Platform. The expanded partnership will enable customers to deploy enterprise-grade Generative AI (GenAI) applications at scale, based on a foundation of high-quality, trusted data and metadata.

The expanded partnership includes four new capabilities:

- **GenAI Solution Blueprint for Databricks DBRX** - Informatica's GenAI blueprint for Databricks provides a roadmap for customers to develop Retrieval Augmented Generation (RAG)-based GenAI applications using Databricks DBRX. Databricks DBRX is an open, general-purpose large language model (LLM) designed to enable users to develop enterprise-grade GenAI applications. The blueprint allows customers to build RAG-based GenAI solutions, leveraging Informatica's IDMC no-code/low-code interface and metadata-driven intelligence and Databricks Vector Database for embedding data, enabling access to trusted and actionable data insights at scale.

Key benefits of the blueprint include:

- Grounding of generative AI application inferencing and summaries with enterprise data providing high-fidelity, trusted responses.
- Enrichment of prompts with comprehensive enterprise data and metadata to ensure prompts and responses are contextualized based on the unique industry and organizational semantics.
- Integration of data quality metrics to prioritize data set selection for grounding to ensure GenAI applications are based on trusted data.
- No-code orchestration and definition of RAG chain and agent-based GenAI applications ensuring customers can rapidly develop, maintain and scale GenAI applications.
- Comprehensive data governance to provide transparency and trust in GenAI applications by enforcing data access and use policies to deliver enterprise-compliant applications.
- **Native Databricks SQL ELT** – Native SQL ELT will enable users to perform in-database transformations with full pushdown capabilities on Databricks SQL, the intelligent data warehouse, leveraging native Databricks functions, such as the AI-powered Assistant, and serverless compute. This will allow customers to develop ETL pipelines to run on Databricks compute for AI-optimized performance, scalable data transformations and integrations.

- **Cloud Data Integration-Free Service (CDI-Free) on Databricks Partner Connect** - Informatica's CDI-Free offering is now available via Databricks Partner Connect, giving customers quick and easy access to Informatica's cloud data ingestion and transformation capabilities at no cost. CDI-Free via Partner Connect offers users ELT processing of up to 20 million rows of data or 10 ELT compute hours per month for free.
- **Full IDMC Support via Unity Catalog** - The Informatica IDMC platform is now fully validated with Databricks Unity Catalog, a unified governance layer for data and AI within the Databricks platform. The integration with Unity Catalog includes all critical IDMC services and greatly enhances Informatica's ability to manage data lineage and governance on the IDMC Platform.

"We are excited to expand our innovation and collaboration with Databricks with complete support for Unity Catalog and our enhanced comprehensive GenAI solution blueprint," said **Amit Walia, Chief Executive Officer at Informatica**. "Together, we can deliver an AI-powered foundation for data management and data intelligence in the cloud to accelerate our joint customers into the era of GenAI with truly transformative applications."

"At KPMG, we are thrilled about the new product offerings and innovations from Informatica and their inclusion in Databricks Partner Connect. This partnership enables us to leverage cutting-edge technologies from both market leaders to drive innovation and deliver tangible business value not only to our internal IT but also to the solutions offered to our clients," said **Dennis Tally, Managing Director at KPMG**. "With Informatica's leading AI-powered data management solutions integrated seamlessly into the Databricks ecosystem, we can accelerate our data-driven initiatives, build trusted AI models and unlock actionable insights at scale. We look forward to further collaboration with Informatica and Databricks to drive digital transformation and help our clients thrive in today's data-driven world."

"In the era of GenAI, access to trusted, high-quality data is becoming more essential than ever, especially for RAG implementations," said **Adam Conway, SVP of Products at Databricks**. "The addition of Informatica's low-code/no-code CDI-Free solution to Databricks Partner Connect, plus the integration of IDMC with Unity Catalog and new analytical data metadata exploration capabilities for RAG-based GenAI, accelerates access to high-quality data for customers building AI solutions and applications on the Databricks Data Intelligence Platform."

Introducing ZW3D 2025: Embark on a Seamless Journey from Design to Manufacturing

11 June 2024

ZWSOFT is thrilled to announce the official release of ZW3D 2025. This new version of 3D design solutions introduces a host of new features and significant enhancements with cutting-edge technology including AI, designed to boost efficiency and accelerate creativity while enhancing precision throughout the product development process.

From part design through assembly design, motion simulation, structural simulation, 2D drawing output to machining, ZW3D 2025 ensures a streamlined workflow that transforms creative visions into reality with unmatched ease and accuracy.

Jessie Tan, Go-to-Market Manager of ZW3D, stated, "In this release, we've not only enhanced the functionality and efficiency of common modules such as modelling, assembly, and 2D drawings but also introduced motion simulation and AI experiences to help engineers achieve better designs in less time and stay focused on product innovation."

She added, "ZW3D has always been committed to providing an All-in-One CAx solution that enables users to adopt simulation-driven designs earlier and output the best CNC machining solutions, thereby reducing product time to market, improving product quality, and reducing manufacturing costs."

Enhance Your Part Design Capabilities

Advanced Pattern Features

ZW3D 2025 significantly advances the efficiency of pattern features, enhancing execution speeds by up to 30%. In complex pattern operations, the more complex the pattern, the greater the efficiency gains observed, with improvements reaching up to 60%.

Optimized Material and Appearance Libraries

The material libraries have been significantly upgraded in ZW3D 2025 to enhance design precision and speed.

The pre-fabricated material library is expanded to include over 11 categories such as metal, plastic, glass, and wood, ready for immediate application. The custom material library allows for the creation of unique material definitions with specific characteristics. Additionally, changes to materials automatically update the appearance attributes, greatly helping to streamline the process and ensure visual consistency across designs.

New Command Advisor Powered by AI

This innovative AI-driven feature elevates the user experience by predicting and recommending the next command based on user habits. It smartly anticipates the next steps in the workflow, thereby streamlining operations and conserving time by minimizing the need to navigate toolbars repetitively.

Furthermore, it continuously learns and adapts to user workflows, serving as an invaluable tool for experienced engineers in pursuit of efficiency and for newcomers who face challenges with CAD software complexity. This ensures that users remain focused on their design tasks, optimizing their interaction with the software.

Streamline Assembly Design and Visualization

Streamlined Large Assembly Handling

ZW3D 2025 has greatly improved the handling efficiency for large assembly scenes, with enhancement up to over 50%. Operations for large assemblies like zooming, rotating, and panning are smooth without any noticeable lag, which elevates both design and display

performance to a new level. This capability is adaptable to a broader range of application scenarios, meeting the needs of more complex projects.

Intuitive Assembly Link Tree

This feature provides a tree structure diagram for easy exploration, assisting users in organizing and resolving reference issues, and breaking circular references. Moreover, assembly link relations can be automatically updated for any modifications to the design and related components can be displayed visually, which greatly improves the design accuracy.

New Assembly Animation

The revamped assembly animation module in ZW3D 2025 supports sophisticated timeline animations and keyframe management, which provides users with high-quality visual assembly demonstrations, product showcases, mechanism operating principles, and design guidance. Users can now create animations with ZW3D that depict assembly processes and product functionalities, enhancing understanding and communication across teams.

New AI-driven Model Match

Leveraging AI technology, ZW3D 2025's new Model Match feature streamlines the initiation of new projects by swiftly locating components within extensive libraries. Users can now submit a drawing or image of the desired component, and the software will efficiently identify the matching model within the libraries. The search is further enhanced by incorporating additional attributes such as material type and specifications, including area and size, greatly accelerating the product design process from concept to creation.

Advance Your Motion Simulation Capabilities

With enhanced motion simulation modules, ZW3D 2025 allows for simulation for the mechanism's movement performance, assisting to identify design flaws early, and enhance product reliability. This proactive approach is ideal for manipulator motion planning, gear transmission design, and conveyor system simulation, which improves the robustness and functionality of the final product.

Improve Your Structural Simulation

ZW3D 2025's structural simulation add-on, powered by advanced linear and nonlinear solvers, now offers a comprehensive suite of analyses including random vibration, drop test, fatigue under random and harmonic loads, and time step fatigue. With enhanced nonlinear capabilities, it supports large displacement for beams and large deformation for dynamic rigid elements while providing a real-time convergence curve for iterative processes.

Optimize Your Drawing Projections

ZW3D 2025 introduces a new discrete projection function that significantly enhances the efficiency of both projection and section views in engineering drawings. This feature is particularly effective for large assembly models, enabling up to 90% faster projections, thereby accelerating the engineering drawing process substantially.

Refine Your Machining Processes

The Solid Verify in ZW3D 2025 has greatly improved with a new rollback function that elevates verification efficiency to new heights. Users can now inspect and revert steps in the verification

process, streamlining error detection and adjustments. Additionally, the solid verification efficiency of ZW3D 2025 has been improved. The upgrade helps users to shorten machining time with reasonable tool path planning.

Introducing ZWCAD MFG 2025: Advanced 2D CAD for Manufacturing

6 June 2024

ZWSOFT, a reliable all-in-one CAx solutions provider, announced the release of ZWCAD MFG 2025, the latest version of its advanced 2D CAD solution for the manufacturing sector.

ZWCAD MFG is an advanced CAD solution for manufacturing professionals to improve design standardization and efficiency. Built on the powerful ZWCAD platform, it enables users to create standardized, high-quality designs easier and faster by offering an extensive library of standard parts, intelligent drawing tools and other productivity-enhancing features. Moreover, it can be seamlessly integrated into PLM systems to achieve efficient management throughout the product lifecycle.

Elaine Zhu, Go-to-market Manager of ZWCAD MFG, said, “In ZWCAD MFG 2025, we had implemented significant advancements in various aspects including compatibility, accessibility, part libraries, drawing functionality and specialized tools. We believe that this version can help designers and engineers create standardized designs more efficiently.”

Let's dive into the key new features and enhancements in ZWCAD MFG 2025.

AutoCAD® Mechanical Compatibility

Format compatibility is essential for seamless data exchange and collaboration. In ZWCAD MFG 2025, we expanded its compatibility with AutoCAD® Mechanical. It now can correctly read and freely edit entities including frames, title blocks, balloons, part references, BOMs and mechanical symbols. With this enhancement, users can use their legacy drawings easily when migrating to ZWCAD MFG, saving time and money.

ZWCAD MFG 2025 now supports the import of AutoCAD® Mechanical drawings from 2012 to 2018 version.

Expanded Part Library

A comprehensive standard part library is indispensable for mechanical engineers to enhance design efficiency. The latest built-in library not only expands existing standards like ISO and DIN, but also adds 14 national standards including JIS, IS, PN, KS, AFNOR, ANSI, BSI, EN, TCVN and more. This upgrade enables engineers worldwide to benefit from an extensive array of standard part libraries.

2D Hide

To address graphical occlusions, we've introduced the 2D Hide function that allows users to quickly hide background graphics behind the outer contours of parts, thereby improving clarity and saving time spent on manual trimming. To meet diverse user needs, we also offer various options for 2D Hide including Hide by Trimming, Hide by Covering, Reference Clip and Hide in Part Out.

Part Reference

The new Part Reference function supports data association by tagging parts as references. This automatically generates BOMs and keeps data synchronized among BOMs, balloons, and part references, streamlining workflows and minimizing errors.

Scale Area

The Scale Area function divides model space into regions with different scales, so you can plot appropriately scaled engineering drawings conveniently. Two scaling options are provided:

- Length Scaling: It enlarges or shrinks geometry without touching the size of annotations.
- Text Scaling: It enlarges or shrinks annotations without touching the size of geometry.

Enhanced Moment of Inertia Calculation

Moment of Inertia Calculation is commonly used for the evaluation of structure reliability in industries like bridge building and steel profile manufacturing. In ZWCAD MFG 2025, we not only optimized its efficiency and accuracy, but also support the calculation of complex shapes, including closed shapes with holes, closed shapes with spline contours, discrete shapes, and shapes with centerlines. These enhancements enable users to handle intricate scenarios with more ease and confidence.

Deflection Calculation

Deflection Calculation is another common function for the evaluation of structure reliability. In this version, we've added this function to improve design efficiency. It can quickly generate deflection lines and calculation result tables, helping engineers predict the deformation of beams under loads and optimize structures.

Sprocket/Pulley Design Tool

ZWCAD MFG 2025 now includes the Sprocket/Pulley Design Tool to help users quickly draw sprockets and pulleys. This specialized tool can draw sprockets and pulleys, calculate the length of chains and belts and draw chain and belt links. Additionally, when you change the position of sprockets and pulleys, the position of chains and belts will be updated accordingly, easing the process of design modification. This tool also supports the selection of national standards, ensuring that your drawing complies with the required standards.

Support for More Languages

Multi-language support is crucial for facilitating global collaboration and ensuring ease of use for users worldwide. In addition to Chinese, English, German, Japanese and Korean, ZWCAD MFG 2025 now supports Polish and Turkish. Users from these countries can use the application in their native language and get their work done easier.

Explore More

To learn more about the benefits of ZWCAD MFG and the enhancements in its latest version, check out the ZWCAD MFG product page.

Get Started with ZWCAD MFG 2025 Today

Contact us or download it now with a 30-day free trial and discover how it can help you create standardized designs easier and faster.

LTIMindtree and SNP Launch MELD®: Collaborative Services Platform for Acquisitions & Divestitures Programs for SAP Customers

12 June 2024

LTIMindtree, a global technology consulting and digital solutions company, in collaboration with SNP, a world-leading provider of software for managing complex digital data transformation processes, has launched its latest platform 'MELD' for accelerated and reliable realisation of mergers, acquisitions and divestitures that accelerates data integrations and process harmonizations for customers.

Enterprises embarking on these initiatives have a need for fast, lean, cost-effective solutions tailored to address landscape consolidations, business process integrations & technology requirements in carve out and merger scenarios that ensure seamless data management and zero business disruption. MELD addresses these requirements and incorporates a built-in framework for innovative data discovery and management and an accelerated cost-effective implementation, thus enabling enterprises to maximize business value with zero disruption for operations.

Vineet Moroney, SVP and Global Head of Enterprise Applications, LTIMindtree said "Our experience and learnings of deploying SAP have helped us to develop the MELD platform in collaboration with SNP, through which we will be able to provide accelerated discovery, reliable data management, enhanced testing, and de-risked deployment. This platform helps organizations to avoid redundancies and minimizes the changes with the desired result of maximum adoption and faster time-to-value to achieve business outcomes."

Camilla Dahlen, President, and Managing Director, SNP North America said, "We are thrilled to partner with LTIMindtree in the M&A and divestiture space where we specialize in the separation and migration of data for the businesses being acquired or spun off. Drawing upon our software automation platform CrystalBridge® and our experience of over +1300 projects across 29 industries, SNP is dedicated to delivering a faster, cost-effective data approach that minimizes disruption and allows companies to quickly improve business performance, drive growth and profitability."

This integrated platform from LTIMindtree, and SNP will be a powerful enabler for customers in manufacturing, Consumer Products, Technology & Services and Energy & Utilities segments undergoing acquisitions and divestitures. The platform provides a comprehensive suite of solutions for SAP projects in an M&A context to de-risk and accelerate the journey to the target architecture.

MathWorks Unveils New 6G Exploration Library at IMS 2024 Conference

10 June 2024

MathWorks, the leading developer of mathematical computing software, announced plans to exhibit at next week's IMS 2024 conference in Washington, DC. IMS 2024 will bring together more than 500 companies and thousands of RF and microwave professionals to showcase the newest products and services and the latest wireless communications theories and strategies. In addition to hosting a variety of demos at booth #2139 in Hall B, MathWorks experts will be leading workshops and educational seminars with industry leaders throughout the event.

EXHIBIT BOOTH DEMOS (Booth #2139)

RF and microwave professionals use MATLAB® and Simulink® to accelerate and optimize their wireless communications designs through modeling, simulation, testing, and implementation tools. IMS 2024 attendees have the opportunity to discuss several wireless communications workflows with MathWorks experts, including:

- **Exploring 6G waveforms, including over-the-air testing with MATLAB:** This demonstration will teach wireless engineers how to explore, design, and analyze candidate 6G candidate signals and waveforms. MATLAB's new 6G Exploration Library enables engineers to easily configure and generate 6G waveform candidates, efficiently connect MATLAB to RF instruments or software-defined radios (SDRs), transmit the waveforms over the air, make signal quality measurements, and much more.
- **Wideband radar and communication waveform classification with Universal Software Radio Peripherals (USRPs):** This guided tour presents a real-time system for identifying 5G NR and RADAR signals, combining NI™ USRP™ SDR with deep learning. Attendees will work with multiple MATLAB products, including Deep Learning Toolbox™, Wireless Testbench™, Image Processing Toolbox™, and Communications Toolbox™.
- **5G waveform design and validation using MATLAB and Keysight test equipment:** Attendees will learn to use MATLAB apps, including 5G Toolbox™ and Instrument Control Toolbox™, and command line functions to generate 5G NR test waveforms, transmit them OTA (over-the-air) using a signal generator, capture them with a Keysight signal analyzer, and analyze their EVMs.
- **Measuring RF filters with Keysight VNA, creating MATLAB behavioral models, and tuning filter performance:** RF and microwave professionals will learn how to control an instrument and acquire data in MATLAB, using RF Toolbox, for visualization, analysis, and post-processing.

Industry Workshops

IMS' industry workshops bring RF, microwave, and wireless leaders together to teach conference-goers valuable skills using the latest technologies. Here is a brief description of two industry workshops MathWorks experts are participating in:

- *Linearization of RF power amplifiers for wideband applications*

Date: Tuesday, June 18

Time: 10:10 – 11:50 am EDT

Location: 144C

Communications standards such as 5G, WLAN, SatCom, and radar systems all trend towards higher frequencies and larger signal bandwidths. These trends impose tight requirements on transmitter linearity and power amplifier efficiency. This workshop brings experts from MathWorks, Qorvo, Rohde & Schwarz, and AMCAD to introduce a workflow to combine state-of-the-art PA measurements with behavioral models and prototypes to accelerate the design, optimization, and testing of linearization techniques. The panel will introduce recent trends in PA architectures and identify linearization techniques such as DPD, also taking into account load-pull effects.

- *FPGA-Accelerated deep learning for 5G FR2 channel estimation*

Date: Thursday, June 20

Time: 1:30 – 3:10 pm EDT

Location: 144C

Increasing demand for high throughput, low latency, and ultra-reliability in wireless transmission requires accurate channel estimation under impairment conditions, including Doppler shifts and noise. Traditional techniques for channel estimation in 5G NR involve known pilot sequences inserted into the transmission from which the rest of the channel response can be interpolated across all sub-carriers. Experts from MathWorks, Rohde & Schwarz, Avnet, and Fujikura will demonstrate a convolutional neural network (CNN) for channel estimation using OTA measurements through mmWave PAAM and AMD RFSoc-based 5G NR receiver in a CATR chamber.

Microapps Seminars

MathWorks experts will be leading nine IMS 2024 Microapps Seminars. Information on all of those presentations can be found [here](#), but here are a few highlighted seminars:

- *AI Classification of Waveform Types: Differentiating 5G NR and Radar Signals*

Date: Wednesday, June 19

Time: 2:35 – 2:45 pm EDT

Location: MicroApps Theater, Booth #2159

MathWorks Senior Engineering Manager Robin Getz explores the innovative use of AI for classifying waveform types, specifically distinguishing between 5G New Radio (NR) and RADAR signals. Attendees will gain insights into the application of advanced machine learning techniques for accurate classification and differentiation of these complex waveforms.

- *AI-based Digital Predistortion in MATLAB*

Date: Wednesday, June 19

Time: 2:45 – 3:00 pm EDT

Location: MicroApps Theater, Booth #2159

RF engineers must squeeze the last dB of performance from their transceiver front ends. For signals like Orthogonal Frequency Division Multiplexing (OFDM) with a high peak-to-average ratio (PAPR), that often means using techniques like digital predistortion (DPD) to compensate for power amplifier (PA) nonlinearities. Historically, DPD systems have been built using a Volterra series model of the PA. MathWorks Principal Technical Marketing Engineer Mike McLernon will show attendees that an AI-based DPD written in MATLAB can reduce the adjacent channel power ratio (ACPR) more than the Volterra series-based DPD.

Siemens collaborates with Samsung Foundry to expand 3D-IC enablement tools, optimize other EDA solutions for foundry's newest processes

12 June 2024

Siemens Digital Industries Software announced that, in collaboration with Samsung Foundry, they have developed compelling new capabilities for the manufacture of multi-die packaged designs at advanced nodes and achieved a host of new product certifications for many of Siemens' industry-leading IC design and verification technologies.

"Our expanded collaboration with Siemens EDA will help us deliver advanced design enablement solutions that address the evolving needs of our customers," said Sungjae Lee, Vice President and head of Foundry PDK Development Team at Samsung Electronics. "By aligning our roadmaps and optimizing the entire design flow, we can drive advanced packaging innovation across key markets like 5G, automotive, and AI."

Siemens and Samsung: boosting 3D-IC manufacturability

Siemens and Samsung Foundry recently collaborated to update process design kits (PDKs) that seamlessly integrate into Siemens' Xpedition™ Substrate Integrator (XSI) software and Xpedition™ Package Designer (XPD) software – an achievement that allows Samsung to deliver robust PDK updates to mutual customers with minimal disruption to design processes. Siemens' XSI software empowers engineers to construct a comprehensive digital twin model of an entire multi-die device, enabling seamless design integrations capable of driving all downstream design, analysis, verification, and signoff activities.

Samsung also successfully evaluated Siemens' digitally integrated High Density Advanced Packaging (HDAP) flow for the foundry's MDI (multi-die-integration) packaging process. Siemens' Calibre® xACT™ 3D software and Calibre xL parasitic extraction tools, which quickly and accurately extract register clock parasitics in complex 2.5D and 3D packaging configurations, are now certified for Samsung's most advanced process nodes, as part of Siemens' larger Calibre® nmPlatform tool. The parasitic extraction tools within Calibre support signal integrity-aware analysis of entire high bandwidth memory (HBM) channels implemented on 3.5D silicon interposers. Samsung has also qualified decks (4nm technology) for the dies with

through silicon vias (TSV) and validated the capability and accuracy of the Calibre parasitic extraction tools for TSV extraction and TSV coupling extraction tasks.

Samsung certifies multiple Siemens EDA product lines and reference flows

Among the many additional recent achievements of the Siemens EDA/Samsung partnership are:

- Siemens' Calibre nmPlatform software for integrated circuit (IC) verification signoff, which includes Siemens' new Calibre® DesignEnhancer software, is now fully certified for Samsung Foundry's latest and greatest process technologies. More specifically, Samsung has qualified Siemens' Calibre xACT parasitic extraction tool for the foundry's multi-bridge-channel FET (MBCFET), an optimized version of Gate-All-Around (GAA) transistor technology. Siemens used novel methodologies for the efficient technology description and accurate extraction of parasitics of advanced transistor technologies beyond 3nm.
- Samsung and Siemens have also leveraged AI-powered custom IC verification technologies such as Solido™ Design Environment and Solido Characterization Suite software to enhance variation-aware verification and characterization, as well as Solido™ Crosscheck™ software for comprehensive IP quality assurance.
- Samsung has qualified Siemens' Analog FastSPICE (AFS) platform for the foundry's latest processes for SPICE accurate applications. Siemens' AFS platform is now certified across Samsung Foundry's FinFET, Extreme UltraViolet (EUV) and GAA fabrication processes (SF4X, SF3P, SF2). AFS is also now qualified for Samsung Foundry's fully depleted-silicon on insulator (FD-SOI) LN18FDS process technology. With these certifications, mutual customers can now verify their designs using Siemens' AFS platform with SPICE accuracy and high performance.
- The two organizations have successfully continued their collaboration around open model interface (OMI) development with Si2's Compact Model Coalition (CMC). OMI, the industry-standard platform for enabling aging modeling and reliability analysis, is now supported by Siemens' AFS platform across Samsung Foundry's processes from 14nm to 2nm.
- Samsung has also certified Siemens' Aprisa™ software for digital implementation for the foundry's SF3P process node. With this certification, customers using Aprisa for digital implementation tasks can design projects at SF3P with fully certified technology, proven correlation with Siemens' Calibre sign-off tools and support for all the design rules and features of Samsung Foundry's advanced GAA process technology platform.
- Further, Samsung and Siemens have created new design implementation solutions that improve power structure robustness and reduce design cycle time. Calibre DesignEnhancer, which is part of Siemens' Shift Left initiative, takes the foundry's rules and automatically performs layout optimization tasks that enhance the customer's design. Calibre DesignEnhancer currently has three use models that use the Calibre platform to deliver DRC clean results, and multiple customers have successfully proven all three Calibre DesignEnhancer use models.

- DE Via, which maximizes via insertion to minimize IR drop,
 - DE Pge, which inserts both vias and parallel interconnects that optimize the power structure to achieve EMIR targets, and
 - DE Pvr, which can save hours by effectively inserting DCAP and Filler cells that are required to run physical verification.
- From an IC Test perspective, the partners have established a new design methodology reference flow that supports high-quality testing and precise diagnosis for Samsung's advanced nodes. Built on DFT technology in Siemens' Tessent™ software featuring Siemens' Tessent™ TestKompress™ software, CellModelGen and Diagnosis engines, the solution generates comprehensive fault models, enabling physical defect-based Automatic Test Pattern Generation (ATPG) and scan diagnosis. Covering a wide range of defects, including cell-internal bridge, open, transistor, and port defects, as well as critical area-based interconnect bridge and open and inter-cell bridge defects, this advancement addresses zero DPPM and diagnosis challenges for inside cell and interconnects.

"In today's fast-paced IC design and fabrication landscape, synergy between partners is essential to meeting the increasingly challenging and complex requirements of our mutual customers," said Mike Elow, CEO of Silicon Systems for Siemens Digital Industries Software. "Our collaboration with Samsung Foundry epitomizes this synergy. Together, we're working to deliver the power, performance and area advantages of 3D-IC architectures for our mutual customers. These advances, together with a raft of new Siemens EDA product certifications and novel design innovations, are now available to help our mutual customers differentiate and win in exceedingly competitive global markets."

Simr, Formerly UberCloud, Ushers in SimOps to Revolutionize Product Development and Introduction in Manufacturing by Accelerating Computer-based Simulations by an Average of 10X

21 May 2024

Simr, formerly known as UberCloud, unveiled Simulation Operations Automation (SimOps), making best practices in computer simulations implemented by the majority of the design engineers at three of the Magnificent Seven companies available to design engineers everywhere. The company also announced that it has secured \$20M in Series A funding led by Uncorrelated Ventures, with investments from BMW i Ventures and Earlybird Venture Capital.

Simr, which gives engineers a single platform for using any compute resources with any leading simulation tool, is revolutionizing how engineers design, verify, and test products by automating sophisticated simulations in the cloud. It does so while eliminating the need to specify, procure, implement, and manage complex High-Performance Computing (HPC) environments. The platform enables the implementation of SimOps best practices, boosting innovation and productivity among design engineers while enabling IT and operational control.

The company is closely partnered with leading simulation platform providers, including Ansys, Siemens, and Dassault Systèmes.

“In today's market, leading products are complex and increasingly require system-level, multiphysics simulation,” said Wim Slagter, director of partner programs at Ansys. “This approach calls for robust simulation automation tools as part of our customers' product design and simulation environments. For more than 10 years, Simr (formerly UberCloud) has critically provided our enterprise customers with these tools using the latest HPC cloud resources, ensuring they stay on the cutting edge of innovation.”

“Simr’s approach has given it valuable insights into the challenges faced by engineers and IT teams in managing cloud simulation environments and the untapped potential for enhancing the use of cloud resources in engineering simulations,” said Steven M. Levine, PhD., Senior Director, Virtual Human Modeling at Dassault Systèmes and Executive Director, Living Heart Project. “The complexity of the HPC Cloud market can be a challenge for many, so a clear, streamlined approach like SimOps could truly be a game-changer for many.”

With the close of the new funding, Salil Deshpande, General Partner at Uncorrelated Ventures, and Baris Guzel, Partner at BMW i Ventures, join Ali Kutay, CEO and Chairman of Striim, and Roland Manger, Co-founder and Partner at Earlybird Venture Capital, on the Simr board of directors.

“SimOps has the potential to revolutionize how companies design complex, breakthrough products by letting teams iterate and test their ideas in the time they were previously forced to waste waiting for simulations to be completed,” said BMW i Ventures’ Guzel. “SimOps gives engineering teams the power to explore more options faster and at lower cost. As manufacturing continues to evolve towards more digital and simulation-driven development processes, Simr is well-positioned to play a pivotal role in this transformation.”

“SimOps changes the way groundbreaking ideas become real products,” said Uncorrelated’s Deshpande. “The knowledge and best practices of the world's largest and most innovative manufacturers become available to companies of all sizes. I'm excited to accelerate this process through an investment in Simr.”

Introducing SimOps

By enabling some of the world's most innovative and successful manufacturing companies, including three of the seven most successful tech companies, to test and verify their product designs, Simr has derived a deep understanding of best practices for operating and automating design simulation processes. This set of practices is called Simulation Operations Automation, or, in short, SimOps.

Engineers' ability to innovate is a function of the speed, frequency, and quality of simulations they can run. SimOps makes engineers more productive by letting them focus their time and attention on design decisions instead of managing compute resources, which accelerates the timeline to design, and test products. The total time required for simulation is significantly reduced when configuring, deploying, scaling, and running automation, which can be done by Simr in any public, private, or hybrid cloud.

Engineering-driven manufacturing companies operate in global, highly competitive, and fast-paced environments. The need to provide innovation, breakthrough products, and superior value to customers is leading to ever-more complex engineering challenges. At the same time, there is an explosion in simulation software variety and sophistication and nearly unlimited compute power in the cloud. SimOps is allowing companies to take advantage of greatly accelerated simulation quickly, securely, and reliably in ways that place them at the top of their industries.

“One can’t develop products today without HPC modeling and simulation, and anything that makes running simulations easier is always greatly welcomed by designers, engineers, and researchers,” said industry analyst Earl Joseph, CEO at Hyperion Research and Executive Director of the HPC User Forum. “Moving forward, the ability to run simulations more quickly with less complexity and friction, and without limitations on computing resources, will separate the highest-performing engineering teams and the top manufacturing companies from the rest.”

Through its SimOps offering, Simr provides a multitude of benefits:

- **Increased Product Innovation and Reduced Time-to-Market:** Utilizing cloud HPC enables engineers to work with large models and detailed simulations that would be too complex and time-consuming for standard workstations. This leads to the rapid development of more accurate and effective designs, increasing innovation and helping speed the delivery of products to market.
- **Uninterrupted Productivity:** Simr ensures a no-compromise user experience by enabling engineers to use any and all of their existing simulation platforms and workflows – including those from Ansys, Dassault, and Siemens – without any additional onboarding or configuration. This eliminates reskilling and ensures that productivity is not only uninterrupted but accelerated.
- **Unmatched Security:** The Simr platform's implementation in the customer's own cloud account enables IT teams to keep all proprietary data behind their corporate firewall – under their complete and exclusive control – while maintaining direct access to their cloud provider's full range of security and compliance mechanisms.
- **Increased Cost-Efficiency:** Unlike consumption-based pricing models, Simr's fixed, per-user pricing promotes simulation use by enabling customers to maintain direct relationships with the engineering software vendors and cloud providers of their choice. This enables them to leverage their own negotiated pricing and access these resources on an as-needed basis.

“Simr lets engineers design better products by giving them the ability to design and validate literally anything they can conceive of at previously unimaginable speed,” said Burak Yenier, Co-founder and CEO at Simr. “As demonstrated by the traction we have with the world's top companies and the support of our investors, there is a strong need for these unique innovations. SimOps is the much-needed new engine of manufacturing simulations.”

Synopsys Accelerates Trillion Parameter HPC & AI Supercomputing Chip Designs with Industry's First PCIe 7.0 IP Solution

10 June 2024

Synopsys, Inc. announced the industry's first complete PCIe 7.0 IP solution consisting of controller, IDE security module, PHY, and verification IP. This solution will enable chip makers to address the demanding bandwidth and latency requirements of transferring massive amounts of data for compute-intensive AI workloads while supporting broad ecosystem interoperability. Large language models' demand for computational capabilities is growing at a breakneck pace, with trillions of parameters needing to be processed in data centers as fast and reliably as possible. Synopsys offers the industry's only PCIe standards-based solution for secure data transfers up to 512 GB/s bidirectional in a x16 configuration to mitigate AI workload data bottlenecks. Synopsys will demonstrate this world's first technology at PCI-SIG DevCon in Santa Clara on June 12 and 13, 2024.

"As the leading provider of interface IP, Synopsys continues to give designers access to the latest interfaces in the most advanced nodes, helping them to address the demands of compute-intensive designs," said John Koeter, senior vice president of marketing and strategy for IP, Synopsys. "Synopsys' IP for PCI Express 7.0 will provide customers with a complete, standards-based solution enabling an early start on next generation of HPC and AI designs and accelerating the path to silicon success."

World's First PCIe 7.0 IP Over Optics Demo at PCI-SIG Developers Conference 2024

Synopsys will feature two world's first demonstrations at the PCI-SIG Developers Conference on June 12 and 13, 2024: Synopsys PCI Express 7.0 PHY IP electrical-optical-electrical (E-O-E) TX to RX running at 128 Gb/s with OpenLight's Photonic IC, and Synopsys PCIe 7.0 Controller IP showing a successful root complex to endpoint connection with FLIT transfer. In addition, Synopsys will showcase its PCIe 7.0 IP ecosystem interoperability with multiple partners, including Keysight Technologies, Samtec, and Teledyne LeCroy.

Industry's First Complete Synopsys PCIe 7.0 IP Solution

Synopsys' IP solution for PCIe 7.0, including controller, IDE security module, PHY and verification IP, reduces integration risk for AI and HPC networking chips. The IP solution, compliant to evolving standards, improves interconnect power efficiency by up to 50% and enables twice the interconnect bandwidth for the same chip perimeter compared to prior PCIe generations. Synopsys PCIe 7.0 Controller IP enables low latency, high-bandwidth links with a full endpoint to root-complex solution that supports all required features for backward compatibility. Synopsys PCIe 7.0 PHY IP provides excellent signal integrity with speeds up to 128 Gb/s per lane, and seamlessly integrates with Synopsys CXL Controller IP solutions. Synopsys Integrity and Data Encryption (IDE) Security IP for PCIe 7.0 provides confidentiality, integrity, and replay protection against hardware-level attacks. Synopsys PCIe 7.0 Verification IP and hardware-assisted verification solutions offer built-in protocol checks and multiple configurations of controller and PHY to accelerate verification and validation closure.

Broad Portfolio of Synopsys IP for High-Performance Computing

Synopsys offers the industry's broadest high-speed interface IP portfolio for high-performance computing SoC designs, including complete, secure IP solutions for PCIe 7.0, 1.6T/800G Ethernet, CXL, and HBM. With Synopsys' extensive interoperability testing, comprehensive technical support, and robust IP performance, designers can accelerate time to silicon success and production.

Industry Leaders Embrace PCIe 7.0 for AI Data Center Infrastructure

The new Synopsys PCIe 7.0 IP solution is backed by leading companies to meet the market demand for advanced, trusted interconnects that enable engineering teams to start their next generation of HPC and AI chip designs with confidence.

"Accelerating every interconnect within the data center, including PCI Express, is critical to address the performance demands of AI clusters at scale," said Debendra Das Sharma, Senior Fellow and Chief I/O Architect at Intel Corporation. "The combination of Synopsys IP for PCIe 7.0 and Intel's future generation products will offer system architects both the bandwidth needed for the most demanding data center workloads and seamless ecosystem integration."

"PCI Express is at the core of our portfolio of purpose-built connectivity solutions that are used by all major hyperscalers and AI platform providers," said Casey Morrison, Chief Product Officer, Astera Labs. "PCIe 7.0 is essential to deliver a 2x bandwidth boost at minimal latency which are both critical goals for rapidly evolving Generative AI and high-performance computing applications. We applaud Synopsys for being at the forefront of enabling the PCIe 7.0 ecosystem."

"PCI Express technology has been essential to the evolution, performance, and interoperability of modern data center server I/O," said Rochan Sankar, President and CEO, Enfabrica.

"Enfabrica's Accelerated Compute Fabric silicon can leverage Synopsys' PCIe 7.0 IP and deliver highly integrated, reliable, and performant scale-up / scale-out interconnect to everyone building next-generation AI compute infrastructure."

"To enable deep learning and AI workloads, hyperscalers need reliable, industry-standard interfaces that provide high-performance, low latency connectivity," said Amin Shokrollahi, CEO, Kandou. "With Kandou's PCIe retimers and Synopsys' PCIe 7.0 IP, system designers will be enabled with high-bandwidth, secure connections, which are critical for data-intensive, latency-sensitive workloads."

"Data center disaggregation and evolving server architectures need wide ecosystem interoperability to move massive amounts of data efficiently," said Gerry Fan, CEO, XConn.

"XConn's PCIe/CXL switches and Synopsys' new PCIe 7.0 IP will be key for these emerging architectures applications, enabling deployment at scale of high-performance, standards-compliant systems."

"To train large language models, immense volumes of data must be processed faster than ever. PCI Express 7.0 enables scaling high-bandwidth, secure and low latency interconnects to meet tomorrow's AI data demands," said Mark Hayter, Founder and Chief Strategy Officer, Rivos.

"Rivos RISC-V based AI system solutions with the most advanced interfaces, like Synopsys IP for PCIe 7.0, enable system architects to achieve power efficient, high performance and secure connectivity, critical to deliver the next generation of chips for AI workloads."

"Microchip is dedicated to advancing high-performance computing and artificial intelligence technologies," stated Bob Divivier, Appointed Vice President of Microchip's Data Center Solutions business unit. "Incorporating Synopsys' advanced PCIe 7.0 IP solution into our next-generation PCIe product line will empower system architects to harness significantly enhanced levels of bandwidth and efficiency in high-level HPC and AI applications."

"With its high bandwidth and low latency, PCIe 7.0 will provide AI data center infrastructure a dramatic leap in performance," said Matthew Burns, Global Director, Technical Marketing at Samtec. "To help enable the ecosystem and give designers access to early testing, Samtec and Synopsys will demonstrate interoperability testing at PCI-SIG DevCon 2024, showcasing the long-reach performance results of Samtec's NovaRay® I/O panel mount cable system, NovaRay® cable system, and the Synopsys' PCI Express 7.0 IP. Samtec's extensive line of high-performance interconnect systems provide the thermal efficiencies, small form factors, extreme data rates and density, and signal integrity optimized performance required to avoid bottlenecks in current and next-generation data center applications."

Synopsys Achieves Certification of its AI-driven Digital and Analog Flows and IP on Samsung Advanced SF2 GAA Process

12 June 2024

Synopsys, Inc. announced that its AI-driven digital design and analog design flows have achieved certification on Samsung Foundry's SF2 process with multiple test chip tapeouts. The reference flows, powered by the Synopsys.ai™ full-stack EDA suite, enhance PPA, boost productivity, and accelerate analog design migration for Samsung Foundry's latest Gate-All-Around (GAA) process technologies. The Samsung SF2 process was optimized using Synopsys' AI-driven design technology co-optimization (DTCO) solution which delivered significantly superior performance, power, and area (PPA) for the process compared to optimization without the use of AI. Building on this success, the same co-optimization techniques will be applied for Samsung's advanced SF1.4 process.

"The demand for custom SoCs in the era of pervasive intelligence requires extensive ecosystem collaboration to help customers accelerate their innovation and silicon success on Samsung's SF2 and next-generation SF1.4 processes," said Sanjay Bali, vice president of product management and strategy for the EDA Group at Synopsys. "Achieving certification and multiple successful tapeouts of our digital and analog flows, powered by Synopsys.ai, on the SF2 process, combined with proven Synopsys IP provides designers with a trusted path to meeting their aggressive design goals for a faster time to market."

"Synopsys and Samsung have worked closely for decades to help our mutual customers achieve their most complex design requirements," said Sangyun Kim, Vice President and head of Foundry Design Technology Team at Samsung Electronics. "This latest collaboration milestone with Synopsys on AI-driven EDA flows and broad IP portfolio development is a testament to our

ongoing efforts to address the industry's growing demand for high performance computing with significant PPA gains. Working together we validated our PPA results using Synopsys' certified digital flow, achieving 12% higher performance, 25% reduction in power, and 5% area reduction compared to the base design."

Collaboration on AI-driven EDA Flows

Synopsys and Samsung are closely collaborating on AI-driven flows, including Synopsys DSO.ai™ for design productivity and PPA optimization, and Synopsys ASO.ai™ for faster analog design migration. This collaboration has resulted in a new analog design migration reference flow using Synopsys ASO.ai for Samsung's FinFET to GAA processes, enabling designers to efficiently migrate Samsung 8nm analog IPs to SF2 process, adding to Synopsys' established flows on Samsung's 14nm to 8nm/SF5 processes.

New Design Techniques and Methodology for Advanced GAA Processes

Synopsys' continued innovation helps mutual customers benefit from new design techniques including backside routing, local layout effect-aware methodology, and nanosheet cell design, to help customers meet their design goals for power, performance, and area on Samsung SF2 process family. In addition, integrating backside routing and the super-cell approach using Synopsys' digital implementation and signoff tools enables designers to increase transistor performance efficiency and density, optimize power consumption, and reduce area by up to 20% for Samsung's SF2Z process technology compared to chips without backside routing capabilities.

Accelerate SoC and Multi-Die Designs

Synopsys IP for Samsung standard and automotive processes from SF2 to SF14LPU delivers a competitive edge for chipmakers looking to reduce integration risk and accelerate time to silicon success for automotive, mobile, high-performance computing (HPC) and multi-die designs. The industry's broadest portfolio of standards-compliant, silicon-proven interface IP for advanced Samsung processes, including PCIe 6.0/5.0/4.0, DDR5, LPDDR5X/5/4X, MIPI M-PHY G5, eUSB2, USB 3.2/3.1, and DisplayPort enables wide interoperability for commonly used protocols. To accelerate integration of chiplets in multi-die packages, Synopsys UCle IP has taped out in SF2 and SF4x, and achieved silicon success in SF5A process technologies, to deliver robust die-to-die connectivity with low power and low latency. Synopsys Foundation IP, including embedded memories, logic libraries and GPIOs, is also proven in silicon to deliver leading power, performance, and area in a range of Samsung process technologies.

Mutual customers can accelerate the development of multi-die designs using Synopsys 3DIC Compiler, a unified exploration-to-signoff platform for 2.5D and 3D heterogeneous integration and advanced packaging. Qualified for Samsung Foundry's SF2 process, Synopsys 3DIC Compiler supports Samsung's advanced silicon processes, packaging technologies, and 3DCODE standard. Synopsys is an active member of the Samsung Foundries' MDI Alliance, helping mutual customers achieve a successful transition to 2.5D and 3D advanced packaging designs.

Uptake Announces Tire Insights to Reduce Tire Failures by 83% and Transform Fleet Maintenance

11 June 2024

Uptake, a data analytics provider empowering fleets and industrial machines with the information needed to make better, more strategic maintenance decisions, announced Tire Insights, a new suite of solutions designed to revolutionize fleet maintenance and vehicle safety.

Tires are a primary cause of roadside breakdowns, accounting for over 50% of such incidents. Uptake's Tire Insights offer unprecedented capabilities in monitoring and managing tire health to curtail significant failures by over 80%. The product suite, which currently includes Tire Leak Insights and the Tire Pressure Monitoring System (TPMS) Insight, helps fleets improve fuel efficiency by 5%, avoid costly downtime, increase operational efficiency, and reduce unsafe driving days by over 90%. These factors lower overall tire maintenance spend, often the highest expense in fleet management.

- **Tire Leak Insights**

Tire Leak Insights enable early detection of air pressure loss, enabling fleets to address potential issues before they escalate. The tool monitors subtle pressure changes and alerts drivers and maintenance teams proactively, helping to avoid severe tire-related incidents, prolong tire life and enhance road safety.

- **Tire Pressure Monitoring System (TPMS) Insight**

The TPMS Insight detects sensor anomalies that could lead to inaccurate pressure readings. This critical feature ensures data reliability of pressure monitoring and allows for timely interventions, maintaining tire integrity. The system's accuracy and speed make it an indispensable tool for modern fleet operations.

"We have proven Tire Insights are actionable and substantially reduce the risk of tire failures and their associated costs," says Brian Silva, Sr. Director of Data Science at Uptake. "We regularly catch tire leaks the same day they start instead of two to three weeks later, when they are typically discovered."

Over 80% of fleets depend on outdated methods for tire maintenance, depending on simpler, threshold-based alerts that can lead to false positives, according to an Anyline survey. Uptake's solution uses advanced analytics to detect tire-related issues, such as leaks, sensor malfunctions and pressure drops, one month earlier than conventional systems. It leverages asset and axle tire pressure baselines, working together to identify and address pain points before they escalate into severe safety concerns. With these technologies, Uptake customers can keep drivers safe and lower operational costs, substantially impacting their bottom lines.

"At Uptake, we are relentlessly focused on product innovation and excellence," says Adam McElhinney, CEO of Uptake. "Our new Tire Insights integrate seamlessly with existing tire pressure monitoring systems and leverage historical data to enhance insights and improve fleet maintenance strategies significantly."

In addition to new tire monitoring solutions, Uptake launched a Fleet Insight Assessment Dashboard for a more granular analysis of fleet subsystem health. The new tool offers a high-level overview of Insights produced by a fleet over the past 90 days. Using the Dashboard, fleet managers can quickly cut through the noise and empower their maintenance teams to identify potential pain points, ultimately making smarter decisions faster.

Wipro Introduces the Lab45 AI Platform Designed to Increase Efficiencies and Transform Business Functions

11 June 2024

Wipro, a leading technology services and consulting company, announced the launch of the Lab45 Artificial Intelligence (AI) Platform, which leverages Generative AI (GenAI) machine learning (ML), and deep learning technologies to enable companies to realize enhanced efficiencies, transform business functions, and enable industry-specific solutions. Lab45 is Wipro's Innovation Lab and the Lab45 AI platform is available to all Wipro employees and clients.

The Lab45 AI Platform runs on a SaaS (Software-as-a-Service) model and supports various state-of-the-art Large Language Models (LLM's) from leading providers as well as custom deep-learning and other models. The platform allows for seamless integration of language and visual processing for generating images from text prompts, as well as the ability to index, parse, and summarize content.

With over 1,000 GenAI agents and more than 10 GenAI applications, the platform offers no code and low code pre-built applications for HR, sales, marketing, and operations functions, while also allowing for the easy creation of industry specific GenAI agents and applications.

"Our Lab45 AI Platform is a testament to Wipro's commitment to innovation and productivity," said **Subha Tatavarti, Chief Technology Officer, Wipro Limited**. "We are excited about the transformative impact this platform will have across the business, particularly in HR, sales, marketing, and other business functions. Our platform will help our customers innovate faster while balancing privacy and responsible AI."

With API-based access for custom applications, the platform makes it easier for clients to deploy GenAI to their environments. In fact, Topcoder, a Wipro platform connecting customers to its 2-million-member global talent network, has been using Lab45 AI Platform's APIs (application programming interfaces) since October 2023, resulting in a seven-fold increase in GenAI usage.

Further, over the past six months, select Wipro teams and external users have been using the platform and realizing significant time savings and productivity gains.

For example, in human resources (HR), the platform has reduced the time it takes to read and interpret specific clauses from large voluminous contracts to minutes from hours, enabling significant improvement in turnaround time and accuracy in the background verification process. In sales, the platform has enabled better and faster sales and revenue generation, forecasting, sales analysis, and report generation via a combination of well-known LLM's (Large

Language Models) combined with custom deep learning models from Lab45. In marketing, the platform has been instrumental in website analysis and lead generation, saving teams considerable time and effort. In quality engineering and testing, recent proof of concepts (POCs) for Wipro customers in banking, pharmaceutical, telecommunication and other industries globally have shown anywhere from 20 to 30 percent improvements across test case, test script, and test result analytics.

Commenting on the benefits of the platform **Shikhar Ghosh, Professor at Harvard Business School (HBS)**, which was an early user of the platform for their MBA (Master of Business Administration) curriculum, said, "We have used the Lab45 AI Platform to teach HBS MBA students about advanced applications of GenAI for Business and Society. We are exploring several other advanced use cases as well."