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CIMdata News

Continuously Optimizing ADAS and AV System Behavior As Requirements Evolve – a CIMdata Commentary

19 December 2023

Key Takeaways

- Successful adoption of ADAS and AV requires trust—trust by the end users, trust in the knowledge and solutions used to design, develop, and validate vehicles.
- Continuous optimization can be effectively applied as IoT and ML/AI techniques learn the nuances of a product’s actual, ongoing use.
- Modern virtual engineering ecosystems ensure conformance to regulations and safety standards as new features are derived using state of the art optimization techniques.
- Siemens Digital Industries Software (Siemens) solutions enable optimized product designs even as the knowledge and requirements evolve over a product’s lifecycle.

Introduction

Understanding how to address and validate changing requirements, whether consumer-driven or regulatory, is faster and easier using computer-based design and simulation solutions where optimization techniques can be applied. On board software-based ADAS features and low-cost sensors can provide data collection learning inside the product to improve controls based on actual usage patterns. These help engineers define scenarios that provide new opportunities to optimize a vehicle before its introduction and while it is in the hands of consumers. Broader coverage of actual usage patterns is needed when using optimization techniques. [\[1\]](#)

Automakers have optimized for some features of mechanical components to improve durability of rotating parts, but adding new up-loadable software-driven features that could generate new revenue streams is a new frontier. Deploying new features to existing products requires earning customer trust. This is now possible using a virtual engineering ecosystem that enables exploring system options and weaknesses in the context of usage patterns. The best automakers will use optimization methods which are more comprehensive and affordable—thanks to ever decreasing database and compute server costs.

The breadth and depth of the product usage scenarios needed today requires applying diverse tool capabilities to provide management and automation, including scenario definition, scenario driven simulation and testing, scenario variability driven by real-world testing, scenario prioritization, and scenario evolution. Furthermore, regulatory compliance must be incorporated as humans use the product and feedback from these experiences drives scenario learning. This commentary discusses these topics and explains why each capability is integral for achieving continuously optimized system behaviors development.

Continuously Optimizing ADAS and AV Systems’ Behaviors Improves Market Success

Trusted models come from correlated product usage experiences. Models can be adjusted to reflect the latest usage measurements. More accurate models create an environment where new ideas can be assessed quickly. The replay of these experiences need scenarios—vehicle motion and sensing scripts. Critical scenarios improve optimization of a product’s design and evolution while assuring companies meet applicable requirements, from performance to sustainability and any others the market demands. Reliable vehicle upgrades result from optimization methods using known scenarios. This includes scenarios that incorporate multiple vehicles and weather conditions. Robust products with reliable upgrades are the hallmark for great companies, keeping customer safety and satisfaction in the fore.



*Figure 1—Many Possible Scenarios Occur when Vehicles Interact
(Courtesy of Siemens)*

Figure 1 shows multiple vehicles—one changing lanes, one accelerating, and one braking. The actions being taken by each vehicle are different. By evaluating a proposed steering/braking control system upgrade in the context of this time-elapsing scenario, in a controlled test (virtual in this case), an optimization method will identify the most robust alternatives so that the engineer can then decide more confidently what are the key parameters of a proposed vehicle control feature upgrade. Of course, there are various scenarios with three independently moving vehicles. As new driving experiences are measured, scenarios are updated or added to the pool of scenarios that drive comprehensive optimization.

Being able to optimize product design decisions about the selection of hardware, software, functionality reuse, and critical operational scenarios eliminates later stage mechanical prototype costs—setting the stage for continuous virtual optimization. A functional digital twin enables the capability to virtually iterate designs and scenarios across systems engineering’s ideation activities, feature definition, exploration, implementation, and optimization. Frontloading design and the use of executable digital twins was discussed in a recently published CIMdata commentary. Having all related data, targets, and compliance requirements associated with the trustworthy, digital twin models—even as they evolve, ensures that systems are optimally developed to meet the needs of the ADAS and AV customers.

Fast-paced designing of features is key to success for ADAS and AV products. Continuous optimization as knowledge is discovered and refined makes the product more responsive to the market and to changing operating environments.

Siemens’ ADAS and AV Development Engineering Solutions that Enable Continuous Product Optimization

Scenarios, both learned and projected, management must be applied when optimizing for performance and compliance. By applying continuous optimization capabilities with effective scenarios management, Siemens has assembled an optimization solution that can enable automakers to bring new ADAS features and AVs more reliably and faster to mobility markets. Scenarios management, including the selection and use of sets of scenarios as optimization algorithms are applied, requires several features that Siemens has identified and implemented. Figure 2 depicts data, extraction, and generation, leading to effective optimization.

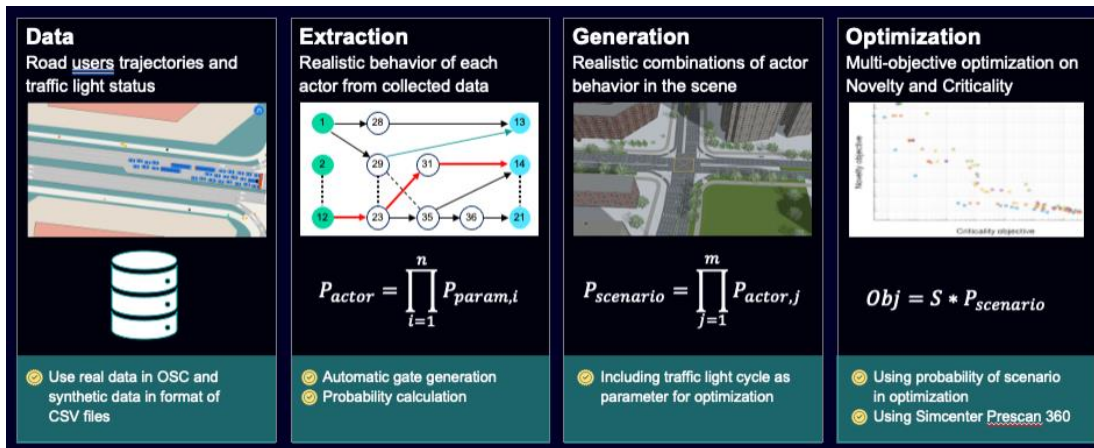


Figure 2—Data, Extraction, Generation Enables Optimization
 (Courtesy of Siemens)

Virtually integrating sensors collecting data, vehicles dynamics, and the operational environment with the functional digital twin is required to optimize system behavior. Extraction and generation as defined in Figure 2 then enables multi-objective optimization. Data can be synthesized based on a known understanding of the physical world. Measured data augments the classical understanding, sometimes leading to new insights on coupled physics. Being able to simulate these new phenomena builds trust in performance prediction models. This leads to

trade studies correlated to the actual product use, captured in managed scenarios. Compliance, through comprehensive traceability, is visible from the start. The value this provides automakers is clear—optimized products that meet and anticipate mobility market desires. The specific capabilities Siemens is providing to automakers include:

- Scenario Definition

The definition of various driving scenarios, including a variety of environmental conditions and traffic situations, and needs insights driven by customer use. Keeping the scenarios comprehensive—covering the wide range of possibilities, is essential.

- Simulation and Test Scenario Use

Simulations are used to test how ADAS and AV systems react to the scenarios in a controlled environment where product motion is exercised. Simulators mimic real-world conditions, allowing developers to observe how the system behaves, including how it perceives the environment, makes decisions, and controls the vehicle.

- Scenario Variability Discovered from Real-World Testing

Real-world testing helps identify real-world challenges. This involves taking vehicles equipped with ADAS and AV technology onto typical roads to assess their performance in actual traffic and weather conditions. Comparing scenarios with these real-world insights leads to scenario refinements.

- Scenario Refinements

As new scenarios or unexpected edge cases emerge, the development process must incorporate these usage and environmental insights. An agile-based, iterative approach helps keep ADAS and AV systems up to date with evolving road conditions and regulations.

- Scenario Prioritization

Some scenarios may pose higher risks or be more challenging than others. Developers must prioritize scenarios based on their potential impacts on safety and performance, and their likelihood of occurring in the hands of customers while driving. This influences the allocation of resources for testing and validation, whether virtual or physical evaluations.

- Comprehending Regulatory Compliance

Scenario-based development helps align regulatory requirements and safety standards specific to the region where the ADAS or AV will be deployed.

- Human In-the-Loop Evaluations

Involving humans with their unique driving variations in the testing process is essential. They can intervene if the system encounters difficulties or fails to respond appropriately, ensuring safety during testing. Conversely, the ADAS and AV systems must also protect humans, both drivers and pedestrians, from unsafe operations.

- Feedback Driving Scenario Learning

Continuous learning and improvement are derived from recording data of real-world scenarios and user feedback. Scenario-based development involves collecting vast amounts of data from simulated and real-world tests. This data is used to train and improve machine learning models that drive scenario refinements. These in turn aid engineers in adjusting algorithms to improve system performance and safety.

Several CIMdata articles summarize the expansion of MBSE driven, multi-discipline capabilities that Siemens has developed. Siemens’ solutions are already enabling advances in electric vehicle engineering, systems and software engineering, executable digital twins, manufacturing planning, and operations, all contributing to accelerating every aspect of product development, production, and use. Siemens is now focusing those capabilities on continuous optimization during product development by utilizing managed scenarios improving feature selection and refinement from the inception of ADAS and AV vehicle design.

Conclusion

Fast ADAS feature and AV optimization is a key to success in AV mobility markets. Keeping and building trust with customers is crucial. Siemens is developing a growing set of optimization capabilities for data capture, scenario-based analysis, critical scenario creation, and seamless system optimization techniques that improve a products design. This can improve the engineering of AV/ADAS features when applying continuous system behavior optimization techniques and methods.

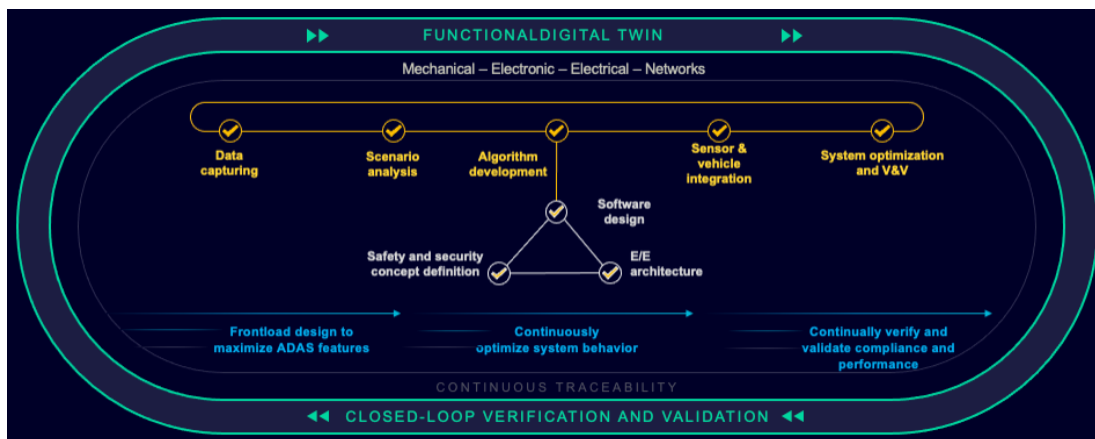


Figure 3—Continuously Optimize System Behavior
 (Courtesy of Siemens)

Siemens’ focus on the narratives, shown in sky blue in Figure 3 will help improve system optimization based on a more complete usage database containing relevant scenarios as they are discovered. Advances in computing make continuous optimization affordable even as comprehending new scenarios derived from the latest customer usage expands.

CIMdata believes Siemens continuous optimization framework will encourage ADAS features and AV product development in new ways, expanding virtual engineering and evolving development practices. By combining the ADAS/AV scenarios management, virtual engineering broadens, and trust grows—the trust needed for a completely autonomous transportation

future. CIMdata recommends automakers should consider Siemens's Xcelerator technology platforms when evaluating needs and solutions for optimized and thus trustworthy ADAS and AV development.

[1] Research for this commentary was partially supported by Siemens.

Free Webinar on How Employing Best Practices Impacts Business Value

21 December 2023

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces an upcoming free educational webinar, "Maximizing Business Impact by Unleashing the Power of Proven Best Practices to Drive Business Value." The webinar will take place on Thursday, 11 January 2024, at 11:00 a.m. (EST) and will last for one hour.

Once the decision is made to digitalize an enterprise supported by a PLM solution suite, maximizing the value of this investment for your enterprise is essential. To do that, PLM must be properly architected and implemented to support business processes and methods. This is a complex journey, one that involves taking advantage of best practices at every step.

Join CIMdata for this free webinar and learn how to navigate the best practices needed to drive a digital transformation initiative and the expected business value. As part of the webinar, CIMdata will present its experiences based on helping its clients through their PLM and digital transformation journeys using best practices.

Attendees at this webinar will:

- Learn how to drive a digitalization initiative from the business requirements to the technical necessities.
- Understand the impact of best practices on business performance and productivity.
- Find out how to use best practices for business-driven solution selection.
- Have the ability to plan for and drive solution implementation.
- Learn how to structure a digitalization lifecycle team.
- Understand how actions can ensure a positive impact on the business.
- Learn how to use a center of excellence.
- Gain a better understanding of how to successfully implement PLM to support business digitalization.
- Learn how best practices are key to digitalization success.

According to John MacKrell, CIMdata's Chairman and the host for this webinar, "As the organizations CIMdata works with develop digitalization strategies, it is critical that they implement PLM solutions to maximize cross-functional business performance. Using best

practices developed over years of PLM solution selection and implementation planning is critical to achieving success and improving business value.”

John MacKrell has 40+ years of experience applying computer-based solutions to engineering and manufacturing, with over 20 years at CIMdata. He has held senior positions in product management, marketing, research and development, and consulting. This webinar will be helpful to people from every part of the organization as properly deployed PLM solutions impact product design, manufacturing, service, and other downstream product processes. People from multiple levels of an organization will find the information pertinent and valuable: senior and middle managers, digital transformation and PLM leads, team participants, users (engineers, manufacturing planners, installation and services practitioners, and others), IT and anyone impacted by how organizations adopt PLM strategies and solutions to support product programs.

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/maximizing-business-impact-by-unleashing-the-power-of-proven-best-practices-to-drive-business-value>. To register for this webinar, please visit <https://register.gotowebinar.com/register/5158810035505323607>.

Acquisitions

Accenture Acquires Data Consultancy Redkite

15 December 2023

Accenture has acquired Redkite, a UK-headquartered data consultancy that specialises in full stack data expertise to help organizations accelerate their performance with data-driven intelligence and AI. The acquisition will expand Accenture’s data capabilities to help clients accelerate transformation with modern data platforms that unlock the power of AI across the enterprise.

With deep expertise in the consumer goods and services, retail, and media industries, Redkite has helped some of the UK’s most ambitious growth companies and household name brands to launch new products and services, make better data-driven decisions, and create personalised experiences for customers. Headquartered in London, and founded in 2018, Redkite brings a full breadth of capabilities, from data strategy, to architecting and implementing modern data platforms. Redkite’s team of more than 230 professionals will join Accenture’s Data & AI practice in the UK.

Kayur Rughani, a managing director in Accenture’s Data & AI practice, said, “AI is a significant catalyst and opportunity for business transformation. In order to move from experimentation to scaled implementation, our clients need a strong data and AI foundation, and they need to be value-led in every capability they choose to reinvent with generative AI. The powerful combination of Accenture and Redkite’s capabilities, expertise and services will help clients make the shift to scale AI investments, rapidly and responsibly.”

Jon Tippell, managing director at Redkite, said, “We all know the next technology revolution is here, but data readiness is the top challenge for companies as they move forward with AI adoption. For companies to embrace the opportunity of data and AI, they need strong digital foundations in the cloud across their business. Joining Accenture means we can become a stronger force for our clients to set their data strategies in motion and fuel their organisations with intelligence.” Henry Crawford, managing director at Redkite, added, “Together we will create more opportunities for our people and clients – leveraging our data capabilities and academy training model as we embark on the next critical phase of the AI journey.”

This acquisition forms part of Accenture’s recently-announced \$3 billion investment over three years in its Data & AI practice to help clients across all industries rapidly and responsibly advance and use AI to achieve greater growth, efficiency, and resilience. The Data & AI practice will double its AI talent to 80,000 professionals through a mix of hiring, acquisitions, and training.

Redkite also complements Accenture’s acquisitions in the UK of cloud and digital transformation consultancy, Infinity Works, in 2021, and analytics and data transformation services consultancy, Mudano, in 2020.

Financial terms of the transaction were not disclosed.

Accenture to Acquire Jixie’s Intelligent Digital Marketing Platform and Business in Indonesia

21 December 2023

Accenture has agreed to acquire the business of media and marketing technology company, Jixie. Jixie’s intelligent digital marketing platform and team will be integrated into Accenture to strengthen its marketing transformation capabilities and resources through Accenture Song—the firm’s tech-powered creative group—helping Indonesian clients deliver more personalized experiences to enhance customer engagement for sustainable business growth.

Headquartered in Singapore with a focus on servicing clients in Indonesia, Jixie offers a comprehensive suite of monetization and marketing growth tools. Its platform is a robust advertising ecosystem that connects publishers and brand owners with the ability to co-create solutions through reliable customer insights. This transforms marketing from a fragmented process with limited control into a strategic priority, amplifying simplicity while safeguarding brand safety, consumer data and privacy.

The integration of Jixie’s platform into Accenture Song’s marketing capabilities will help clients optimize customer data effectively and efficiently into actionable insights, regaining the control, speed and trust needed to securely capitalize on Indonesia’s fast-growing digital economy that’s projected to reach US\$146 billion by 2025 before growing eightfold by 2030.

Jayant Bhargava, country managing director, Indonesia, at Accenture, said: “The convergence of marketing, data science and technology creates opportunities for businesses to redefine their customer engagement model. Jixie’s intelligent digital marketing solutions complement our

technology expertise, providing a winning proposition for businesses to bring a higher level of personalization and effectiveness to their marketing efforts. This acquisition will allow us to better serve our clients in navigating complex marketing challenges in this era of interconnected digital world, which is crucial in driving long-term growth.”

With Jixie’s platform, publishers can access monetization tools, such as header-bidding solutions and performance marketing, to improve advertising returns. Brand owners can also seamlessly enhance and integrate content securely without intermediaries, allowing them to utilize valuable insights for unique and meaningful brand engagement. Jixie can help publishers double their monetization returns and support brand owners in significantly increasing campaign clickthrough and conversation rates while enriching customer data.

“The value of data in today’s rapidly changing digital economy is immense, and the digital media ecosystem has seen much disruption, including the impending loss of third-party cookies. Jixie is an impactful platform that amplifies publishers’ perspectives and simplifies the digital marketing experience. This investment extends Accenture Song’s data-led commerce and marketing transformation work in Indonesia, empowering clients with highly relevant and results-driven solutions for sustainable business growth,” said Joseph Tan, Indonesia lead for Accenture Song.

Vincent Martin, co-founder and managing director, Jixie, said: “Jixie has seen proven success in its marketing performance capabilities that boost publishers’ revenue and the formation of an ecosystem that has attracted advertisers to run successful campaigns. The next step for us is scale. We’re thrilled to be joining Accenture and contribute to shaping a more sustainable media industry, helping companies leverage their data in a trusted and advantageous manner in service of their customers.”

Accenture Song in Southeast Asia has been making significant investments to help clients grow and be relevant to their customers today and into the future. The acquisition of Jixie's business is the second investment made in Indonesia after the acquisition of Romp. It follows Accenture Song's recent agreement to acquire Rabbit’s Tale in Thailand. Other recent acquisitions by Accenture Song globally include ConcentricLife and Fiftyfive5.

Terms of the transaction have not been disclosed. Completion of the acquisition is subject to customary closing conditions.

AECOM welcomes the EMPSi team to its U.S. West Environment business

12 December 2023

AECOM, the world’s trusted infrastructure consulting firm, announced it has welcomed Environmental Management and Planning Solutions, Inc. (EMPSi), a leading U.S. environmental consulting firm, to AECOM. Founded in 2006, the EMPSi team of more than 50 professionals brings substantial expertise in environmental analysis, assessments and permitting, particularly with U.S. federal clients. When combined with AECOM’s existing Environment practice in the U.S., the collective team has more than doubled its environment permitting capabilities in the federal sector, positioning the Company to capture even greater share of the expected growth within this market.

“We’re excited to welcome the EMPSi team into AECOM and their federal sector market leadership further strengthens our expertise and expands our presence with federal clients who are advancing substantial environmental initiatives supported by the IIJA, IRA and other dedicated funding mechanisms,” said Matt Crane, chief executive of AECOM’s U.S. West region. “The EMPSi team have established themselves as the leaders in this market, which immediately extends our technical leadership and value proposition to a broader set of clients.”

With the addition of the EMPSi team, the combined U.S. West Environmental Planning and Permitting (EPP) team will be best positioned to leverage AECOM’s unrivaled technical expertise and innovations, such as its digital PlanEngage™ tool that significantly enhances the environmental engagement and permitting process. Appropriations under the U.S. Department of the Interior, Bureau of Land Management and Bureau of Reclamation are all projected to increase significantly over the coming years, creating a strong growth opportunity for the collective team.

“We are thrilled to join AECOM, which allows to accelerate our growth plans at an ideal time when funding across our core clients has never been greater,” said David Batts and John King, EMPSi’s co-founders. “By joining the world’s number one ranked environmental consulting and environmental engineering firm, we will be able to leverage our combined strengths and jointly pursue growth opportunities that accelerate our collective growth aspirations.”

Terms of the transaction were not disclosed. AECOM remains committed to its capital allocation policy that prioritizes shareholder value creation through investments in growth and returning substantially all available cash flow to shareholders through repurchases and dividends.

Hexagon agrees sale of non-core business area

19 December 2023

Hexagon AB, the global leader in digital reality solutions, combining sensor, software and autonomous technologies has entered into an agreement to sell its Tesa PMI (Precision Measurement Instruments) business to Hangzhou Great Star Industrial Company Ltd. This divestment reflects Hexagon’s commitment to focus on core business activities directly accretive to its mid-term growth, margin and cash generation targets.

In 2022 PMI contributed 50.9 MEUR in revenues, with below group average profitability, to Hexagon’s Manufacturing Intelligence division.

The sale is subject to customary, limited closing conditions and expected to close in Q1 2024. Further details of the transaction will be covered in the Q1 report.

MariaDB Finalizes Spinoff of SkySQL

14 December 2023

MariaDB plc announced that it has completed the spinoff of its SkySQL business to SkySQL Inc., a new independent entity founded by the former MariaDB team that built and supported the

SkySQL product. Moving forward, the new company, SkySQL Inc., will assume development, sales and support of the SkySQL DBaaS.

“We believe this spinoff will facilitate a smooth transition for our customers who rely on SkySQL,” said Kurt Haberkamp, VP, customer success, MariaDB plc. “We are thrilled the SkySQL product will continue on under a new company, while allowing us to focus our efforts on our core MariaDB Enterprise Server product.”

Company News

Aegis Software & Arch Systems Partner to Digitize Continuous Improvement in Manufacturing

12 December 2023

Aegis Software, a global provider of Manufacturing Operations Management Software (MOM/MES), and Arch Systems®, the leading provider of data and analytics for manufacturing operations, announce a groundbreaking partnership toward digitizing continuous improvement of factory operations.

Manufacturing excellence relies on proactively identifying issues and implementing corrective action. Effective identification requires analytics fueled by maximum breadth and depth of data. Corrective actions rely on revealing insights within those analytics, and then ensuring action is taken on the shop floor. How quickly a manufacturer moves from issue identification to action, and the effectiveness of those actions, is what separates the world-class from the rest.

Aegis and Arch have partnered to deliver an unprecedented AI Copilot to guide manufacturers toward the right actions and, if desired, implement those actions automatically via FactoryLogix® on the shop floor. This expedites the cycle of continuous improvement beyond what is possible with even the best process experts alone.

By augmenting Arch data sources with the contextualized product design and human operator interaction data provided by Aegis' FactoryLogix, the Arch Insight Engine becomes even more powerful in suggesting targeted operational and process improvements. The results of those actions are then available for both Arch and Aegis systems to assess the efficacy of the corrective action. This represents an unprecedented application of AI for manufacturing that leverages a greater scope of data than previously possible, while also being able to reach into the physical process and cause improvement.

Of the partnership, Andrew Scheuermann, CEO of Arch Systems, said, “ArchFX customers today achieve unprecedented levels of understanding and actionable intelligence to improve their factories. This partnership will enable our mutual customers to more fully detect and align patterns and trends in their data, leading to specific actions for improvement. Manufacturers are eagerly anticipating the introduction of a complete AI Copilot that drives intelligent actions holistically for their organizations. This represents a crucial step toward that as it integrates

intelligent actions derived from previously collected MES data with analytics and AI systems. This is just the start of the novel value this approach can offer.”

Aegis Software CEO, Jason Spera said, “Our technology concept is clear: to power autonomously improving operations, a unique and fundamental aspect of Industry 4.0. This partnership satisfies a need we’ve heard from the market as digitalization has become more prevalent in manufacturing. That is—‘how do I better leverage all this data I have from my process to make my operation more successful?’ This solution brings to market an AI Copilot able to go beyond data and analytics to actually drive operational improvement—either via factory operators or directly via MES.”

Bechtle Austria backs multi-channel strategy

18 December 2023

From January 2024, Bechtle will begin operating under the name Bechtle Austria GmbH in preparation for the merger of its IT system houses with Bechtle direct Austria, thus bundling both companies’ previously discrete sales strategies under one roof. The move sees Bechtle continuing to pursue its approach of combining direct sales with on-site support to drive stronger growth with the result being a large multi-channel IT provider with some 400 employees at nine locations country-wide. Customers in the private and public sectors benefit from being able to quickly procure IT infrastructure as well as IT services from a single source, which makes Bechtle Austria stand out from the crowd on the Austrian market. With this restructuring, Bechtle expects to see significant growth and an increase in market share, which will continue to be overseen by current managing directors Thomas Kast, Daniel Knözinger and Robert Öfferl.

“We are consolidating the strengths of the individual companies to form a holistic IT service provider in Bechtle Austria. In doing so, we are aligning ourselves with the market and our customers’ need for greater speed, more extensive expertise and significantly streamlined processes to lay the foundations for healthy growth,” says Michael Guschlbauer, COO IT System House & Managed Services, Bechtle AG.

Paving the way to One Bechtle.

The largest German IT system house has been active on the Austrian market for 15 years with Bechtle direct and Bechtle IT-Systemhaus, with the two having worked closely on several customer projects over the years. Bechtle direct is a specialist in phone and digital sales and relies on fast processes, high availability and a tailored online procurement system, the system house sets its focus on an all-encompassing consulting and service portfolio for data centre solutions, IT security, multi-cloud, modern work, networking and managed services. The existing sites in Vienna, St. Pölten, Wiener Neudorf, Graz, Gleisdorf, Linz, Traun, Innsbruck and Götzis will remain to ensure customers can continue to rely on the company’s regional presence.

Bechtle Group specialists also consolidating expertise

Also from 01 January 2024, the two companies specialising in software and application solutions in Austria will be operating under one name—Smartpoint Dataformers GmbH in

Linz, Vienna, Graz, Eisenstadt and Zwettl. Both companies carry top-level Microsoft certifications in the Collaboration & Content as well as Customer Relationship Management categories. Together with PLM specialist Planetsoftware GmbH, these two companies complement the Bechtle Group's presence in Austria.

BT and Netskope Partner to Provide Secure Managed Services to the Modern Hybrid Enterprise

12 December 2023

BT and Netskope, a leader in Secure Access Service Edge (SASE), announced a partnership to bring Netskope's market-leading Security Service Edge (SSE) capabilities to BT's global customers. The partnership follows a number of large customer implementations where the two companies have already collaborated to successfully meet the security and access needs of large enterprises.

BT's data shows that hybrid working is now a requirement for 76% of global workers, which is driving a requirement for more agile, secure connectivity. SSE helps deliver an excellent user experience by keeping workers productive while providing increased visibility and control of network, applications, and data.

The partnership will leverage Netskope's SSE leadership and global security private cloud footprint NewEdge, along with BT's global footprint and deep, established relationships with some of the world's largest organizations. BT provides managed telecommunications, security and network and IT infrastructure services to customers across 180 countries. Netskope Intelligent SSE provides granular visibility and real-time data and threat protection for cloud services, websites, and private apps accessed from anywhere, on any device.

In 2023, Netskope Intelligent SSE was recognized for the second year in a row as a Leader in the Gartner Magic Quadrant for Security Service Edge (SSE). The report showed Netskope to have the highest Ability to Execute and to be furthest in Completeness of Vision in the 2023 Magic Quadrant for SSE. Netskope already integrates with many of BT's strategic vendors and technology integration partners including Microsoft, AWS, and CrowdStrike, enabling it to easily become a part of customers' technology stack.

Tausif Awan, Global Solution Sales Director at BT commented, "BT's focus is always on providing strong connectivity with the best possible experiences for our customers. Increasingly, for our business customers that means helping them navigate the access needs of a hybrid workforce while ensuring the safety of corporate systems and data. We are always working to ensure we are partnered with the market leading technology innovators to be able to meet our customers' needs, and Netskope will be an important partner for us moving forward."

Tristan Morgan, MD Security at BT added, "Security transformation is high on the priority list for organizations globally, as they look to address the challenges of the fast-evolving modern enterprise. We pride ourselves on partnering with the best technology innovators globally, to

ensure our customers stay ahead of the threat landscape, and so we are very pleased to be adding a leader in SSE to our portfolio.”

Dave Rogers, SVP Alliances and Global Channel Sales at Netskope commented, “We’re excited to strengthen our collaboration with BT, addressing a key concern for global CIOs and CISOs: security transformation. BT clients will benefit from robust security measures to minimize the risk of cyber threats while aiding in meeting compliance standards, and employees will see a boost in productivity via excellent user experiences.”

CIMPA: Proud to be a member of PLM Green Alliance

13 December 2023

At CIMPA, we strongly believe that innovation and sustainability make for a powerful combination and that PLM can be leveraged as a seamless, intelligent and collaborative system that enables companies to design, manufacture, and service products (SLM) in a sustainable and profitable way.

As part of our commitment to sustainability we are thrilled to participate in the PLM Green Global Alliance, a Community of PLM Professionals collaborating, educating and advocating for a Sustainable Low-Carbon Circular Economy. The PLM Green Alliance association explores the intersection of PLM and the circular economy, providing insights and resources for businesses that are committed or transitioning to sustainable practices.

Our CIMPA consultants are actively involved in the PLM and Circular Economy topics for this community and work on five areas of focus:

- Understanding and applying circular economy principles to product development and lifecycle management.
- Leveraging PLM tools and technologies to support circular economy initiatives.
- Fostering collaboration and knowledge sharing among PLM professionals and circular economy experts.
- Establishing benchmarks and best practices for PLM-enabled circular economy strategies.
- Raising awareness about the role of PLM in the circular economy and advocating for its adoption among businesses.

By integrating PLM principles and practices into the operations, we can help reduce environmental footprint, enhance resource efficiency, and contribute to a more sustainable world.

Cosmo Tech Earns ISO 27001 Certification

21 December 2023

Cosmo Tech announced it has officially achieved ISO 27001 certification, confirming commitment to best practice information security management and data protection.

ISO 27001 is the world's best-known standard for information security management systems (ISMS). The standard provides companies with guidance for establishing, implementing, maintaining, and continually improving an information security management system. According to the ISO itself, "conformity with ISO 27001 means that an organization or business has put in place a system to manage risks related to the security of data owned or handled by the company, and that this system respects all the best practices and principles".

"Cosmo Tech has long prided itself on the quality of our information security management systems and the expertise of our information technology teams," explained co-founder and CEO Hugues de Bantel. "This certification is evidence that this pride was not misplaced and that the high standards and principles of data security that we've long endorsed align with the very best practices internationally."

Co-founder and Executive Chairman Michel Morvan added, "This certification is certainly a credit to our information technology and information security teams, but it is also a proof-point for our clients that Cosmo Tech is a trusted partner, one with the systems in place to secure their data and safeguard their critical and confidential information."

Cosmo Tech's ISO 27001 success will help assure its international clients and partners that their data is managed securely and in compliance with all relevant regulations, as well as offering them additional expertise and support for any data-security questions they might encounter.

Cosmo Tech Chief Information Officer Jean-Baptiste Briaud said, "This certification is a testament to our commitment to top-tier information security standards and is the end result of many months of work with multiple internal and external experts. Together we've set a new benchmark in protecting what matters most in today's digital world."

Digital Twin Consortium Signs Liaison with the Connected Infrastructure for Education, Demonstration, and Applied Research Consortium at Texas State University

18 December 2023

The Digital Twin Consortium® announced a liaison agreement with Texas State University's (TXST) Connected Infrastructure for Education, Demonstration, and Applied Research (CIEDAR) Consortium. CIEDAR is a new research and development marketplace at TXST. CIEDAR delivers its expertise to its members using a transdisciplinary focus of technologies with relevant application to infrastructure digitalization, decentralization, and decarbonization. Collaborating with multiple industry partners, CIEDAR aims to establish 14 living labs across 800 acres with a

focus on nine verticals including Smart Utilities, Smart Cities, Smart Energy, Smart Water, Smart Mobility, Smart Networks, Sensors, Big and Software.

“We are excited about working with CIEDAR,” said Dan Isaacs, GM & CTO, Digital Twin Consortium. “Their experience with applied research in this area will benefit our members as we work to further the use of digital twins within the connected infrastructure industry.”

“We are very excited to join the Digital Twin Consortium, collaborate with its members, and contribute to the use of the technology to solve many challenges for industry,” said Andres Carvallo, Co-Director of CIEDAR, Professor of Innovation in the TXST College of Science and Engineering, and Fellow at Materials Applications Research Center.

The two groups have agreed to the following:

- Realizing interoperability by harmonizing technology components and other elements
- Aligning work in Digital Twin Consortium Capabilities and Technology for adoption within vertical domains through proof of value projects and use cases including:
 - Composable and Architectural Frameworks,
 - Advanced Capabilities and Technology showcases
 - Security and Trustworthiness applications
 - Conceptual, informational, structural, and behavioral models
 - Enabling technologies such AR, VR, AI and other advancements
 - Case study development from initial concept through operational analysis

Digital Twin Consortium will exchange information through regular consultations, seminars, and others including training development vehicles.

Digital Twin Consortium Welcomes PraSaga Foundation as a Member

14 December 2023

The Digital Twin Consortium® announced that PraSaga Foundation has become a member of the Consortium. A non-profit organization, PraSaga developed the SagaTech Stack architecture and SagaChain, a layer-one blockchain designed to address the critical challenges existing blockchain networks face. PraSaga will lead a newly formed DTC FinTech Tiger Team.

The DTC FinTech Tiger Team will consist of members from the Consortium representing some of the most vital industries in the world. The member companies are leaders in their respective spaces and work together to solve industry-wide problems. As a first step, the DTC FinTech Tiger team will work on developing open standards requirements benefiting every major industry.

“We are thrilled to be a part of the DTC and to lead the DTC FinTech Tiger Team,” said PraSaga Foundation CEO Michael Holdmann. “The Tiger Team will use PraSaga’s SagaTech Stack architecture to define process flows and create application-specific use cases for implementation across industries for real-world testing.”

“We’re excited to have PraSaga as a member and leading the DTC FinTech Tiger Team,” said Dan Isaacs, GM & CTO of the DTC. “We look forward to including value-based use cases in our DTC Technology Showcase. The development of these use cases and enabling development environment further accelerate digital twin adoption.”

DXC Technology Appoints Raul Fernandez as Interim President and CEO

20 December 2023

DXC Technology announced that the Company’s Board of Directors has named Board member Raul Fernandez Interim President and Chief Executive Officer, effective immediately. Fernandez brings a wealth of executive and operational experience in the technology and investment sectors to the position. He has served as CEO of several companies including Proxicom, which he founded, Dimension Data North America and ObjectVideo.

Fernandez succeeds Mike Salvino, who served as DXC President and CEO since 2019 and as Chairman since 2022 and provided leadership for a significant restructuring of the Company’s operations and balance sheet. In mutual agreement with the Board, he will transition from his role as Chairman of the Board, effective immediately, and will remain in an advisory role until March 31, 2024 to help ensure a seamless transition.

Additionally, DXC Lead Independent Director David Herzog has been named Chairman of the Board, to work closely with Fernandez during this time. The Board will conduct a search for a successor CEO, which will include internal and external candidates.

“Raul is an accomplished and transformational leader in the technology sector and beyond,” said Herzog. “His proven track record of building and leading strong, innovative businesses for the long-term will serve our customers, team members and investors well. We are incredibly fortunate to have an executive of his caliber, in partnership with our exceptional management team, to lead DXC during this time.

“We want to thank Mike for guiding DXC through its transformation journey the past four years,” Herzog continued. “He helped stabilize the business and put the Company on a path for growth, overseeing a meaningful restructuring of the operations and balance sheet, while launching our offering-led operating model and building a world-class leadership team. We are grateful that he will continue to serve as an advisor for the next several months and look forward to his continued support during the transition.”

“DXC is an industry leader beginning to make strong progress on a path of sustainable growth, and I’m excited and honored to be stepping into this role at such an important moment,” said Fernandez. “We are intensely focused on executing on our strategy to drive revenue growth and expanded margins, while continuing to create value for our customers and shareholders. The incredibly talented team we have assembled will not miss a beat during this transition. I am looking forward to continuing to work closely with David, the board and our extraordinary team of 131,000 employees as we execute on the next stage of our growth journey.”

“It has been a privilege to serve as CEO for the last four years as we undertook a significant transformation journey at DXC,” said Salvino. “We achieved our goal of bringing stability to the

business by cementing our financial foundation and assembling the right senior management team needed to drive better performance and deliver on the company's strategic objectives moving forward. Raul and David are perfect leaders to oversee DXC into its next phase and continue its strong track record of forging trusted client relationships and creating an environment to grow and develop talent. I wish them and the team continued success."

In addition to the Board and executive appointments announced today, DXC affirmed its previously issued financial guidance for the fiscal third quarter. DXC also confirmed its previously issued fiscal 2024 free cash flow guidance of \$800 million. This guidance does not include the impact of amounts due to Salvino under his existing employment agreement in connection with his departure. DXC Chief Financial Officer Rob Del Bene and Raul Fernandez will discuss the Company's fiscal third quarter results in its next earnings call on February 1, 2024.

About Raul Fernandez

Fernandez, who has been a DXC Board member since 2020, currently serves as Vice Chairman and co-owner of Monumental Sports & Entertainment, a private partnership that owns some of Washington DC's major sports franchise, including the NHL's Washington Capitals, the WNBA's Washington Mystics, and the NBA's Washington Wizards. The partnership also owns Monumental Sports Network, a first-of-its-kind regional sports network for digital, mobile and over-the-top (OTT) platforms.

He also currently serves as a director of Broadcom, Inc., an Alternative Governor for the NBA Board of Governors, a Special Advisor to Carrick Capital Partners, a member of the Strategic Advisory Board of Volition Capital, and a director to several private companies.

He has overseen a number of technology-focused companies during the course of his career, including Proxicom, which he founded and helped grow into a prominent global provider of e-commerce solutions to Fortune 500 companies, eventually taking it public. He later served as CEO of Dimension Data North America, an information systems integration company, and then was Chairman and CEO of ObjectVideo, a leading developer of intelligent video surveillance software, prior to its sale to Alarm.com in 2017. He also previously served as a director of GameStop, Corp., Kate Spade & Co and Capitol Investment Corp. V and as a member of the President's Council of Advisors on Science and Technology.

About David Herzog

Herzog, who has been a DXC Board member since 2017, has held a number of senior executive positions over the course of his career. He most recently served as chief financial officer and executive vice president of American Internal Group (AIG) after holding several other leadership positions at the company. He is also a member of the Board of Directors at MetLife Inc. and is Chairperson of the Audit Committee.

HCLTech's digital solution for the aerospace and defense industry receives SAP recognition

20 December 2023

HCLTech announced that its digital manufacturing solution for the aerospace and defense (A&D) industry, Base90, has been recognized as an SAP-qualified partner-packaged solution.

HCLTech Base90 for A&D production engineering and operations (PEO) leverages SAP software and innovations and helps to accelerate the implementation of SAP S/4HANA®, SAP's leading ERP solution that allows companies to perform transactions and analyse business data.

"Our SAP-qualified partner-packaged solution combines industry-specific best practices, frameworks and resources with SAP capabilities in project-based fabrication, assembly, maintenance, repair and overhaul. By delivering pre-configured business processes to manufacturing clients, we can help them accelerate efficiencies across the entire product digital thread lifecycle," said Ajay Bahl, Chief Growth Officer, Americas, MEGA Industries, HCLTech.

HCLTech is part of the SAP PartnerEdge® program. The SAP PartnerEdge program provides the enablement tools, benefits and support to facilitate building high-quality, disruptive applications focused on specific business needs – quickly and cost-effectively.

SAP-qualified partner-packaged solutions are built, sold and supported by SAP partners. These integrated solutions combine SAP® software with a partner's industry or line-of-business expertise, services, customizations, or applications, so that customers can run at their best whether they have 100 employees or more than 10,000.

Packaged solutions create a unique customer offering with a pre-defined price, scope and rapid implementation timeline and fast time to value. To obtain this designation, HCLTech met specific criteria and was qualified by the SAP Partner Solution Center organization.

Infosys Inaugurates New Development Center in Nagpur

16 December 2023

Infosys, a global leader in next-generation digital services and consulting, announced the inauguration of a new state-of-the-art development center (DC) at the Mihan-SEZ in Nagpur, Maharashtra. Spread across 265,000 sq.ft., Infosys has invested over INR 230 crore in the development of this facility, which will provide greater flexibility for employees to work in a hybrid mode and enable re-skilling and up-skilling of local talent. The new center will also give employees the opportunity to work on next-gen technologies like cloud, AI, and digital across multiple industries, such as telecommunications, banking, retail, aerospace, automobile, logistics, and manufacturing, among others.

The DC was inaugurated by **Hon'ble Union Minister Shri Nitin Gadkari, Hon'ble Deputy Chief Minister of Maharashtra Shri Devendra Fadnavis, in the presence of Mr. Nilanjan Roy, Chief Financial Officer, Infosys, Mr. Sunil Kumar Dhareshwar, Executive Vice President, Infosys, Mr. Tarang Puranik, Senior Vice President, Infosys, and Mr. Niladri Prasad Mishra, Vice President, Infosys,** and other senior government officials.

The DC, which will accommodate over 3,000 employees, is aligned with Infosys' future-ready hybrid workplace strategy. Additionally, in line with Infosys' ESG commitments and green building standards, the office follows the highest standards of occupant health as well as efficiency, and uses innovative systems to reduce consumption of natural resources like energy, water, etc. The campus facilitates low-energy cooling, smart building automation, efficient rainwater harvesting, and 100% recycling of wastewater.

Shri Nitin Gadkari, Hon'ble Union Minister, Government of India, said, "The inauguration of the new Infosys development center in Nagpur is a significant milestone for the city's growth trajectory. The center will serve as a catalyst for ecosystem development and is a testament to our vision of creating an environment for world-class IT services and solutions in the city. We are confident that Infosys' Nagpur DC will create employment opportunities and contribute to the growth of the state's IT sector."

Shri Devendra Fadnavis, Hon'ble Deputy Chief Minister of Maharashtra, said, "We are proud that Infosys has put Nagpur on its global development center map with the commencement of operations at its state-of-the-art development center. I am absolutely delighted to see Infosys's commitment to green practices and sustainability which has been a key design factor in developing this center. This is in line with our State/National vision for a better future. We look forward to a fruitful collaboration with Infosys in the years to come."

Nilanjan Roy, Chief Financial Officer, Infosys, said, "The inauguration of the development center in Nagpur is a part of our commitment towards continuous innovation. We believe that this center will contribute to the growth of businesses, create direct and indirect job opportunities, promote sustainability and ecosystem development, and give an impetus to local and global businesses through its cutting-edge solutions and services."

Klaus Rosenfeld to remain CEO of Schaeffler AG for a further five-year term

15 December 2023

At its meeting, the Supervisory Board of Schaeffler AG resolved to reappoint Klaus Rosenfeld (57) as Chief Executive Officer for a further five-year term.

Klaus Rosenfeld joined the Schaeffler Group as Chief Financial Officer in March 2009. In October 2013, he took over the position of CEO in addition to his role as CFO, initially on an interim basis. In June 2014, he was appointed permanent CEO of Schaeffler AG, whose IPO took place under his leadership in October 2015. With the Roadmap 2025, Klaus Rosenfeld laid the foundation in 2020 for the further development of Schaeffler AG to become a leading motion technology company.

On November 15, 2023, Schaeffler AG published an offer document for a voluntary public acquisition of outstanding shares of Vitesco Technologies Group AG. The acquisition offer is the first step of a planned three-step overall transaction that will lead to a merger of Vitesco into Schaeffler and the creation of a leading motion technology company. The combined company will consist of four focused "pure-play" divisions that will have leading positions in their respective markets. This includes a combined E-Mobility division with strong growth potential.

Georg F. W. Schaeffler, Family Shareholder and Chairman of the Supervisory Board of Schaeffler AG, said: “Klaus Rosenfeld stands for continuity and progress in equal measure. Over the past ten years, he has successfully guided the Schaeffler Group through challenging times, positioned it for the future under the Roadmap 2025 and successfully initiated the strategic implementation of the transformation into a leading motion technology company with the planned integration of Vitesco Technologies. We are pleased that Mr. Rosenfeld will continue to be available to us as CEO of Schaeffler AG, above all to implement the merger with Vitesco. I look forward to continuing our cooperation and, on behalf of the entire Supervisory Board, wish Mr. Rosenfeld continued success.”

LTIMindtree Opens New Delivery Center in Mexico City

14 December 2023

LTIMindtree, a global technology consulting and digital solutions company, announces the inauguration of a new Delivery Center in Mexico City, as part of expanding its presence in Latin America. The Delivery Center will enable workforce transformation and localization for LTIMindtree in the Americas. The Center was inaugurated on December 14, 2023, by His Excellency, Pankaj Sharma, Ambassador of India to Mexico, Fadlala Akabani, Minister of Economy of the Secretariat of Economic Development of Mexico, Rajeev Jain, Executive Vice-president & Global Head of Operations, LTIMindtree, Greg Dietrich, Executive Vice-president & Regional Americas Delivery Head, and Anurag Tripathi, Associate Vice President, LTIMindtree.

Located in the heart of Mexico City’s financial district, the 100+ seater Delivery Center is a state-of-the-art facility that promotes collaboration, innovation, and is designed to scale for future growth. It will support the company’s capabilities in the region, bringing LTIMindtree’s world-class services closer to its customers in the SAP and Digital Engineering Service Lines. As the LATAM Delivery & Operations Head, Anurag Tripathi, Associate Vice President, LTIMindtree will lead the Mexico City Delivery Center with a focus on future growth and delivering high-quality results for customers.

Nachiket Deshpande, Whole-Time Director & COO, LTIMindtree said, “Over the last few years, Mexico has emerged as a competitive player in the global tech market, providing a skilled workforce, and a favorable business environment. LTIMindtree is committed to nurturing the high-quality workforce in the region by leveraging its global domain experience. With this delivery center in Mexico, we can bridge the gap between our nearshore and local customers and the expertise of local talent while successfully delivering programs within the same time-zone.”

Fadlala Akabani, Minister of Economy of the Secretariat of Economic Development of Mexico City said, “I want to congratulate the leadership of LTIMindtree for the opening of the new Delivery Center in Mexico City. Indian IT companies have traditionally helped in building and shaping the talent in Mexico. We are committed to providing support to the company for their aspirations to grow in the region and help us build Mexico City as the home of high-class technology. I extend my thanks to LTIMindtree for their commitment to invest, grow and create more technology jobs locally in the region.”

LTIMindtree's clients in Mexico range from sectors like Telecom, Media & Entertainment, Manufacturing, Hi-Tech & Services, Banking & Financial Services, and RCG. The company currently has 12 offices across the Americas and has 103 Fortune 500 companies as its clientele.

Seequent strengthens presence in Central Asia by establishing regional hub in Kazakhstan

19 December 2023

Seequent announced the establishment of a regional hub in Kazakhstan, expanding its presence in Central Asia. Staffed by a dedicated local team, the strategic move demonstrates Seequent's commitment to providing cutting-edge subsurface software solutions to the rapidly growing local market and wider Central Asia region.

Seequent shared the news last week at an event in Almaty, which brought together partners, stakeholders, and leading industry representatives. Seequent has supported the Central Asian business community since 2011, and major companies in the regions are already using Seequent's earth-modelling, analysis, data management, and collaboration software. These applications help users understand the underground in the mining, energy, civil infrastructure, and environment industries.

Colin Hay, Executive Vice President, EMEA with Seequent, said, "Seequent's expansion into Central Asia marks a significant milestone in our global strategy. Kazakhstan, situated in the heart of Central Asia, serves as an ideal hub for the region. With a robust economy, rich metal reserves, advantageous location, and a focus on attracting foreign investment, Kazakhstan stands out as a key market for Seequent's solutions."

Hay added, "We are seeing a growing demand for our solutions that support the evolving needs of industries in this market seeking digital innovation to drive efficiency and value in their operations. We will continue to hire locally as our Central Asia operations expand."

Seequent offers software solutions for geoprofessionals including geologists, geophysicists, geochemists, geotechnical and geomechanical engineers, hydrogeologists, ecologists, as well as builders, designers of structures, quarries, and underground mine workers. Products include the leading implicit geological 3D modelling solution Leapfrog and Oasis montaj, the industry standard for working with geophysical data.

"Seequent's products help to make the work of these professionals easier and more efficient and unify collaboration with colleagues around the world," Hay said.

Tata Technologies inaugurates a vehicle-software focussed Innovation Centre in Coimbatore

14 December 2023

Tata Technologies, a global product engineering and digital services company, inaugurated its first innovation centre in Coimbatore, focused on innovating solutions for global customers through development, testing, and integration of vehicle software solutions.

Tata Technologies vision of engineering a better world embodies a commitment to enabling global automotive OEMs and Tier-1s to develop software-defined vehicles and e-mobility solutions through innovations across the product value chain—from conceptual design to post-sales service. The new centre at Coimbatore will provide new opportunities for local talent to work on global projects, upskill in new vehicle software areas and innovate solutions across the automotive value chain.

Commenting on the inauguration, **Mr. Warren Harris, MD and CEO, Tata Technologies**, said, “We are pleased to establish our presence in Coimbatore and contribute to the region’s thriving engineering landscape. This strategic initiative will ensure a continuous exchange of talent, ideas, and solutions, propelling the industry forward into a future defined by innovation and efficiency. Together, we aim to create a centre of excellence that will pioneer the future of vehicle-software systems and contribute to our vision of engineering a better world.”

Coimbatore is emerging as a key engineering hub in India with a vibrant engineering community and education ecosystem. This innovation centre will focus on vehicle software projects including embedded software development and testing, advanced driver assistance systems (ADAS), connected vehicles, functional safety, cybersecurity, hardware-in-the-loop validation and AUTOSAR. The company plans to employ 100 vehicle software professionals from the local community in the first phase of operations.

Velo3D Announces Leadership Transition and Commencement of Strategic Business Review

15 December 2023

Velo3D, Inc., a leading metal additive manufacturing technology company for mission-critical parts, announced that Benny Buller has stepped down as the company’s Chief Executive Officer at the request of the Company’s Board of Directors, effective immediately. Mr. Buller will remain a member of the Company’s Board of Directors.

“I want to thank Benny for his tireless efforts over the last nine years from founding the company to making Velo3D the technology leader in the rapidly growing additive manufacturing industry,” said Carl Bass, Chairman of the Board of Velo3D. “We are incredibly grateful to Benny for all his contributions. However, given the current environment, the Board believed a change would best position the company for future success. We look forward to continuing to benefit from Benny’s experience at the board level as we execute on our strategic technology and profitability initiatives.”

The Board of Directors has appointed Brad Kreger as Interim CEO, effective December 18, 2023 and the Company has commenced a search for a permanent CEO. Mr. Kreger has been Executive Vice President of Operations at the Company since December of 2022. Prior to Velo3D, he has held various executive positions overseeing, and rapidly scaling, manufacturing operations at a number of early and mid-stage companies including tenures at Affymetrix, Thermo Fisher Scientific, and Fluidigm Corporation.

Additionally, the Board of Directors has commenced a strategic business review process to explore alternatives in order to maximize shareholder value. Potential strategic alternatives to be explored or evaluated may include, but are not limited to, a strategic transaction, potential merger, business combination or sale. There can be no assurance that the Company's strategic review process will result in any transaction or other strategic outcome. The company does not expect any impact on its operations or its ability to serve its customers during the review process. Velo3D remains committed to driving strategic value for its customers, employees, partners and shareholders.

Velo3D does not intend to disclose further developments on this strategic review process unless and until it determines that such disclosure is appropriate or necessary.

Financial News

Accenture Reports First-Quarter Fiscal 2024 Results

19 December 2023

Accenture reported financial results for the first quarter of fiscal 2024 ended November 30, 2023.

Click to download the [Q1 FY24](#) earnings infographics.

Simulations Plus Announces First Quarter Fiscal Year 2024 Earnings and Conference Call Date

20 December 2023

Simulations Plus, Inc. ("Simulations Plus"), announced that it will report first quarter fiscal 2024 financial results after the market close on Wednesday, January 3, 2024.

Management will host a conference call that same day at 5:00 p.m. Eastern Time to discuss the results. Investment professionals and all current and prospective shareholders are invited to join the live webcast by registering [here](#). The conference call can also be accessed by dialing 1-877-451-6152 (domestic) or 1-201-389-0879 (international) or by clicking on this [Call me™](#) link to request a return call. The webcast can be accessed on the investor relations page of the Simulations Plus website at www.simulations-plus.com/investorscorporate-profile/corporate-profile/ where it will also be available for replay approximately one hour following the call.

Implementation Investments

AECOM secures position on major framework to deliver Intelligent Automation services to public sector organizations across the United Kingdom

20 December 2023

AECOM, the world's trusted infrastructure consulting firm, announced it has been appointed to an Intelligent Automation framework agreement with National Health Service (NHS) Shared

Business Services, which provides a procurement vehicle for all NHS and public sector organizations in the United Kingdom.

The framework agreement will support the adoption, implementation, and ongoing development of Intelligent Automation to help increase efficiency, reduce costs and risks, and improve customer and patient experience. AECOM has been appointed to Lot 1 of the framework, which covers Intelligent Automation services and is designed to provide expertise and specialist support to help organizations set up and implement in-house Intelligent Automation services, with the end goal being to transfer the day-to-day running of Intelligent Automation back to the organization.

“As the only infrastructure consulting firm on the framework, AECOM brings a unique offer that combines our engineering capabilities with our specialized digital expertise to distinguish us from traditional management consulting firms,” said Colin Wood, chief executive of AECOM’s Europe & India region. “Intelligent Automation has huge potential to bring wide-ranging efficiencies to public services in the UK. Our industry-leading Digital AECOM practitioners look forward to supporting the varied clients on this framework in adopting and implementing this emerging technology to improve business operations and services for their customers.”

The framework is the latest win for Digital AECOM, which combines the Company’s digital consulting services and its digital solutions to help clients accelerate their digital journeys and achieve better project outcomes. Under the framework, AECOM will deliver a range of specialized digital services, including consulting and advisory, technology implementation services related to Intelligent Automation adoption, data analytics and business intelligence, as well as resource planning, organization design services, and licensing.

NHS Shared Business Services is a corporate services provider accessible to the NHS and wider public sector, including all health service organizations, local authorities, emergency services, education sector and all other public sector organizations located across the UK.

Black Buffalo 3D Printed Homes Have New Owners Just in Time for the Holidays

14 December 2023

On December 12, 2023, Black Buffalo 3D celebrated the completion of two 3D printed homes utilizing its ICC-ES approved 3D construction materials and large-scale 3D printers as part of Habitat for Humanity Peninsula and Greater Williamsburg’s latest home project. Black Buffalo 3D homes tout benefits for their owners including disaster resilience, printed walls being termite proof and giving the designers the ability to design structures with excellent thermal efficiency. These homes achieved an energy rating of R22 which will result in lower energy consumption and lower cost of living over traditionally built homes.

“These Newport News homes represent the latest advances in 3D construction by utilizing Black Buffalo 3D’s large scale gantry construction printer and proprietary materials that are over twice as strong as traditional CMU block,” commented Mike Miceli, CEO of Black Buffalo 3D. “We’ve always touted the importance of field and lab verified testing materials, printer performance and wall design to streamline the permitting process. This project was the result

of an experienced builder utilizing ICC-ES approved engineering specs to print strong resilient housing that will perform well for years to come.”

The construction team at Habitat for Humanity spearheaded by Craig Meadows, Chief Construction Officer, was able to take full advantage of Black Buffalo 3D’s complete 3D construction solutions—including its NEXCON gantry printer and MAPEI USA provided Planitop 3D NA (proprietary materials) to become the first in the world to utilize the printed wall as the structural element of homes without relying on grout infill or vertical rebar.

Janet Green, CEO for Habitat for Humanity PGW explained that HFH provides a path to home ownership, but it is not a handout. Potential owners need to fulfill a commitment that includes 100 hours of service and qualify to be approved to purchase a house. In turn, Habitat offers a zero-interest loan to make the homes affordable and all funds go back into building more homes for hardworking families. The new homeowners were onsite and extremely excited about being able to move into their new homes. The two homes were largely sponsored by IHI and Bayport Credit Union. Both new homeowners were onsite to say a few words and meet everyone involved on printing/building their homes.

“This does not mean a little bit to me; this means the world to me. This is a place where I will grow, my children will grow and learn, and I look forward to having them come of age so they can back to Habitat and help to build other homes to pay it forward. I look forward to being part of this community,” expressed new 3D printed homeowner Sierra.

Black Buffalo 3D and MAPEI USA were extremely proud to be part of these builds; offering support throughout the project including consultation, hands-on training, and guidance on products to finish the 3D printed elements. 3D homes are gaining widespread adoption, and these two homes represent a significant step forward into how 3D printed homes can improve efficiency.

Cadence AI-Driven Multiphysics System Analysis Solution Enables Wistron to Dramatically Accelerate Product Development

20 December 2023

Cadence Design Systems, Inc. announced that Wistron, a leading technical service provider (TSP), has adopted and deployed the new AI-driven electromagnetic (EM) in-design analysis workflow, including the Cadence® Optimality™ Intelligent System Explorer and the Cadence Clarity™ 3D Solver, to design a complex 800G network switch. Using the Optimality Explorer’s AI-driven optimization technology and the Clarity 3D Solver for fast, accurate and scalable EM in-design analysis, Wistron was able to analyze large volumes of data—improving overall design reliability while realizing a 2X improvement in turnaround time (TAT).

Legacy 3D solvers typically deliver slower simulation results due to excessive run times and memory usage. In contrast, the Clarity 3D Solver, with its distributed multiprocessing technology and virtually unlimited capacity, quickly analyzes large and complex PCB, IC packaging and complete systems without compromising accuracy. Its exceptional performance is further fueled by the Optimality Explorer, a generative AI-driven, in-design multiphysics

system analysis and optimization solution that allows design engineers to explore 3D EM and high-speed signal and power integrity results efficiently and effectively. By revealing design configurations that may not be manually achievable, the Optimality Explorer streamlines design iterations—resulting in shorter and more efficient design cycles.

“By adopting Cadence's AI-driven optimization solution including Optimality Explorer alongside the Clarity 3D Solver for our 800G network switch and GPU server, we leveraged the design of experiments model to explore multiple simulations quickly and realized far more robust designs with a 2X improvement in TAT,” said Christopher Huang, vice president of the Enterprise and Networking Business Group at Wistron. “With a shift left of AI-enabled multiphysics systems analysis into our electronic design workflow, we are not only improving product performance but gaining valuable design insight and engineering efficiencies.”

“As high-speed electronic systems continue to grow in complexity to meet market demands, Cadence is committed to developing software solutions that address multiphysics challenges and the associated scaling demands,” said Ben Gu, corporate vice president of the Multiphysics System Analysis Group at Cadence. “Wistron has embraced the Cadence multiphysics system analysis portfolio to expedite design throughput and engineering turnaround time. The Clarity and Optimality solutions, coupled with HPC, are the trifecta for next-generation design success.”

The Clarity 3D Solver and the Optimality Explorer support Cadence's Intelligent System Design™ strategy, which enables customers to accelerate system innovation.

Cadence Managed Cloud Service Drives Automotive Sensor Solutions for Murata Finland

14 December 2023

Did you know that a modern automobile might contain as many as 100 sensors? Automotive sensors are electronic devices that measure pressure, acceleration, inclination, temperature, and much more, feeding this data back to the vehicle's various control units. They also come in a mind-boggling array of configurations, many of them safety-critical. Today, they are indispensable components of an intelligent automotive system.

Micro-electro-mechanical systems (MEMS) are sensors that convert pressure or physical movement into electrical signals. MEMS-interfacing ASICs control MEMS element behavior and measure the tiny signals received from the element, perform signal processing, and then generate the digital output.

Murata is the world's leading manufacturer and supplier of inertial sensors for the automotive industry. It designs, develops, and manufactures sensors based on patented 3D MEMS technology in Finland. Considering the safety-critical nature of its products, Murata Finland requires a state-of-the-art EDA environment for their design and verification.

This is where the Cadence Managed Cloud Service comes in, an EDA-optimized platform with a fully integrated and proven cloud environment to launch product design, verification, and

implementation. The platform serves a full front-to-back design flow, partial design flow, and hybrid cloud-based peak capacity to augment an on-premises compute environment.

Cadence and Murata Finland: Extending a Partnership

Recently, Murata Finland and Cadence renewed their license agreement, which enables Murata Finland to leverage Cadence's advanced EDA software hosted securely in the cloud.

Using the Cadence Managed Cloud Service, Murata Finland was able to improve engineering productivity by 10% when developing a mixed-signal MEMS-sensing ASIC for a new product, including accelerometer and gyroscope MEMS, in collaboration with its design partners and Cadence design services. Cadence's cloud solution ensured that critical resources within the Murata Finland ASIC team focused on design rather than IT tasks. Furthermore, third-party designers could seamlessly collaborate with Murata designers.

Murata Finland also scaled up the cloud solution quickly when it needed additional capacity or when adding engineers to the project. Cadence provided 24/7 support for the cloud environment and resolved any issues promptly. With efficient preventative maintenance, the critical phases of the project went smoothly. Additionally, Murata Finland kept the project on schedule by leveraging Cadence design services and EDA tool support.

"As a leading manufacturer of inertial sensors for the automotive industry, Murata requires a state-of-the-art EDA environment for the design and verification of our safety-critical products," said Ville-Pekka Rytkönen, general manager, Product Development at Murata Finland. "The Cadence Managed Cloud Service allowed us to quickly scale when additional capacity was needed, or when new engineers were added to the project. Because our ASIC team could focus on critical design rather than IT tasks, collaboration with our third-party designers was seamless. The Cadence Managed Cloud Service also enabled the effective use of Cadence design services and support when needed.

"Managing downtime in IT systems is crucial in such projects", reported Ville-Pekka Rytkönen from Murata Finland. Cadence Managed Cloud Service maintained an uptime of more than 99.9999% (above the industry standard) during the project.

"The Cadence Managed Cloud Service provides a secure, collaborative design environment that allows customers like Murata Finland to quickly and easily harness the power of the cloud without assuming a heavy IT burden," said Mahesh Turaga, vice president of Cloud Business Development at Cadence. "Murata Finland was also able to leverage Cadence design services and EDA tool support to mitigate risk associated with IT system downtime or failure, keeping their microchip project on schedule."

With the global automotive sensors market set to grow at 11.68% to a staggering \$71 billion by 2030 and constant evolution in sensor technology itself, this is clearly a very competitive and dynamic industry. Cadence Managed Cloud Service ensures that Murata maintains its lead in the automotive sensor market by providing a secure and collaborative design environment.

Global cable manufacturer upgrades to IFS Cloud to optimize processes and customer service

14 December 2023

IFS, the global cloud enterprise software company, announced that Habia, a leading global manufacturer of wires, cables and cable harnesses, has chosen to upgrade its existing IFS enterprise resource planning (ERP) software to the latest IFS Cloud™ solution.

Upgrading to IFS Cloud will enable Habia to leverage an intelligent and robust platform that supports AI-driven automation and optimization, all accessible through a user-friendly single interface. Implementing the solution will enable the company to benefit from powerful new functionality including business process automation, Internet of Things (IoT) technology and advanced analytics to improve supply chain communication, adapt quickly to external disruptions and meet customer demands more efficiently.

A key advantage of IFS Cloud is its evergreen ERP model, allowing Habia to seamlessly integrate composable business applications, delivering faster time to insight and minimizing costs.

Peter Karlen, IFS Global Systems Owner, Habia, said: “For years, IFS has been our trusted partner, and our strong relationship is the foundation of our success. Our decision to upgrade to IFS Cloud underscores our dedication to embracing technology and optimizing our operations. By harnessing the power of IFS Cloud's AI-driven capabilities, we are confident that we will be able to navigate market challenges, drive profitability, and move positively forward towards a more productive, prosperous, and sustainable future.”

IFS is committed to delivering continual value and innovation through this model, ensuring that Habia remains competitive and agile. By upgrading to IFS Cloud, Habia can stay ahead of the competition and gain control over release timing, reducing disruption to their business.

Habia is set to deploy a comprehensive suite of IFS Cloud modules, including functionality for manufacturing, finance, supply chain, maintenance, CRM, and human capital management (HCM). The upgrade, which is expected to take place in Q2 2024, will be managed by IFS partner, Addovation. Once fully implemented, IFS Cloud will support users and operations in four manufacturing sites in Germany, Poland, Sweden, and China.

Ann-Kristin Sander, Managing Director, IFS Nordics, said: “Habia faces a range of challenges from global supply chain disruption to growing competition in its core market sectors. It understands that digital transformation is key to addressing these and keeping ahead of the pack. We are looking forward to supporting them on that journey and helping to ensure their ongoing success.”

Infosys to Harmonize the Systems of LKQ Europe

21 December 2023

Infosys, a global leader in next-generation digital services and consulting, announced a 5-year collaboration with LKQ Europe, one of the leading distributors of automotive aftermarket parts for cars, commercial vans, and industrial vehicles in Europe. Following multiple strategic

acquisitions, LKQ has envisioned a corporate program that entails harmonizing business processes, improving product availability, and enabling faster delivery to end customers. Under this collaboration, Infosys will assist to integrate and standardize disparate business processes and systems, to enable synergies and achieve economies of scale.

Infosys was chosen as a strategic partner to lead LKQ Europe's IT related business transformation owing to its strong credentials in ERP deployment, and commitment to a long-term collaboration. LKQ Europe will leverage Infosys' industry expertise in automotive and distribution solutions and implement systems with robust capabilities to drive sustainable productivity and to support their long-term business objectives.

Varun Laroyia, Chief Executive Officer, LKQ Europe, said, "At LKQ, we are constantly enhancing our market leading position. This project is an extension of our original program and focused on building a more streamlined and impactful organization. With Infosys as our strategic partner, we are aiming to reduce complexities, increase efficiency and leverage our strengths. This will allow us to upgrade our focus on customer-centricity, ensure best in class customer experiences and further excel our top position."

Jasmeet Singh, EVP & Global Head of Manufacturing, Infosys, said, "We are thrilled to collaborate with LKQ Europe and enable them in their transformative journey. Our expertise in harmonizing and digitizing complex processes and transforming customer experience aligns perfectly with LKQ Europe's goals. We are committed to delivering innovative solutions that will streamline LKQ Europe's operations, support their growth, and ensure LKQ Europe's continued success in the automotive aftermarket industry."

La Caixa Foundation Embarks on Digital Transformation with Informatica's AI-Powered Cloud Data Management Platform

19 December 2023

Informatica, an enterprise cloud data management leader, announced La Caixa Foundation, one of the most prominent foundations in the world by volume of social investment, has chosen Informatica's AI-powered Intelligent Data Management Cloud™ platform as one of the core components of its digital cloud transformation. This strategic collaboration aims to propel La Caixa Foundation into a new era of efficiency and agility by instilling a data-centric culture throughout the organization.

For over a century, La Caixa Foundation has been committed to building a better future for those in need by creating programs that focus on the advancement of culture, science, education and medical research and health programs. Working to improve the lives of some of the most vulnerable amongst us, the foundation places emphasis on programs with the greatest power to transform society, such as those that combat child poverty and social exclusion, programs that foster employment and help to improve the living conditions of the least fortunate.

After decades of growth, La Caixa Foundation decided to modernize its data management program and transition to the cloud as part of its commitment to improving its non-profit

projects through more efficient data analysis. Informatica's Intelligent Data Management Cloud platform will provide wider flexibility for adopting new technologies to support the foundation as it expands. The move is not only about embracing modern technology but signifies a broader initiative to share data and information seamlessly with partners and collaboration agencies, ultimately contributing to better community experiences.

"We have a long history as an organization, which includes legacy systems and processes and a significant amount of data in various formats. We chose Informatica to help us form a new, modern AI-powered data culture and create an enterprise-wide data strategy—one which will allow us to integrate all data on one platform, and improve data quality, standardization and governance," said Jordi Gener, Director of Government and Data management at La Caixa Foundation.

"The foundation had very specific criteria for its data modernization project. They wanted a single platform that allowed them to advance at their own pace, leverage the integrators they've known for years and expand as needed," said Massimo Miazzetto, VP of Sales and Country Manager Italy & Iberia. "Informatica's AI-powered Intelligent Data Management Cloud platform enables customers to evolve their data management practice at their own pace and creates a future-proof system that delivers holistic, trusted data to help make informed decisions and achieve business objectives."

Largest Department Store in Central America, Siman, Boosts its Warehouse Productivity by 19% with Infor WMS

20 December 2023

Infor®, the industry cloud company, announced that Siman, the Central American department store giant, has made significant improvements in its logistics operation by adopting the Infor WMS warehouse management system.

This technological transformation of the retail distribution centers was motivated by the company's sustained growth and the boom in e-commerce in Central America, where the sector has maintained year-on-year increases between 20% and 40%, according to data from Kantar Group and Statista.

The largest and oldest department store chain in Central America, which has more than a century of experience and 26 stores in the region, uses the WMS system to intensify the level of inventory visibility, which enables it to generate significant improvements in its logistics operation, mainly in receipt and dispatch processes.

After implementing Infor WMS, Siman has recorded a 19% increase in receipt productivity, boosting the processes of direct crossdocking — an order preparation system that implies the goods are received and loaded into the means of transport simultaneously, key to ensuring the replenishment of the stores — as well as a 9% increase in cargo productivity, linked to a more agile dispatch process and with greater use of the available fleet.

"WMS is an advanced scalable warehouse management system that enables organizations to automate, monitor and plan all the movements necessary to carry out a correct warehouse

administration. At the same time, it has the capacity to carry out stock control, facilitating the operation and boosting productivity," said James Barroso, director of go-to-market for Latin America at Infor.

Technological transformation: Ready for the future of logistics

Siman adopted Infor WMS after determining the warehouse system it had been using since 2002 no longer allowed the flexibility and capacity the company requires to manage fast-growing warehouses and leverage its transformation and advancement in an ever-changing business environment.

"The company needed an agile, advanced solution that would allow for a reduced learning curve and obvious results in the short term. With Infor WMS, Siman will be able to not only keep pace in a highly dynamic market, but also to set the pace," Barroso added.

The choice of Infor was supported by two key factors: the success of similar Infor WMS implementations, and the software's proof to be a flexible solution, able to respond to and withstand the logistical challenges the company was going to face.

Alejandro Choussy, Siman's regional logistics manager, mentioned that one of Infor's distinguishing factors, compared to other tools, is its cloud architecture as a multi-tenant solution. In addition, the ability to integrate, the adaptability to the processes of the retail sector, the elimination of the use of paper, and the increase in the productivity of the operators, are also factors that add value to its execution.

"The implementation of WMS, which began in Nicaragua and El Salvador, will be extended to other countries in the region and will incorporate the Labor Management module to further increase productivity, and it is also planned to develop bonus and compensation programs among employees that encourage the fulfillment of the achievements in our team," Choussy said.

The implementation of the project was executed by Cerca Technology, an Infor partner that demonstrated a significant step toward operational excellence by carrying out a transparent and flexible process.

"Cerca Technology worked closely with our company to ensure the solution fit the business and implementation needs. The company's clear and disciplined methodology enabled us to meet deadlines, in addition to reducing problems in the WMS adoption process," says Armando Molina, Siman's logistics project manager.

Julián Lasso, professional services manager at Cerca Technology, said: "The interest and willingness of the Siman team to improve its supply chain has allowed us, in a short time, to advance in the best way in its main operations. Their dedication to optimizing logistics operations is admirable and has been a key factor in the success of this project. We are confident that the improvements we have implemented will not only drive efficiency in the short term but will lay the foundation for sustainable growth and a lasting competitive advantage in the market."

McDonald's Corporation and Accenture Expand Partnership to Accelerate Technology Adoption and Reinvent Customer and Crew Experiences

19 December 2023

McDonald's Corporation and Accenture announced an expansion of their strategic partnership to help execute McDonald's strategy to leverage the latest edge technology and apply generative AI solutions across its restaurants worldwide to improve operations as well as customer and crew experience. Through this work, McDonald's also will enhance the digital capabilities of its employees.

This partnership will help support McDonald's technology strategy which aims to leverage scale and unlock greater speed and efficiency for customers, restaurant teams, and employees. This includes the acceleration of automation innovation from equipment manufacturers, allowing restaurant general managers to quickly spot and enact solutions to reduce business disruptions, ultimately reducing complexity for restaurant crew and leading to customer benefits such as hotter, fresher food.

This phase of innovation is also designed to build an even stronger technology team at McDonald's. Accenture will help train and support McDonald's global workforce by using Accenture's learning and development programs, online training courses and boot camps for emerging talent to ensure the workforce has the AI, data and edge computing skills needed in the digital era.

Brian Rice, executive vice president and global chief information officer, McDonald's, said, "In order to unlock the opportunity in our ongoing digital investments, we chose Accenture, our long-time partner who has helped us build our digital foundation, to work with us on this next phase of innovation. Accenture's deep understanding of our business, our industry, and of course technology, will allow us to leverage the full potential of the cloud and generative AI solutions by implementing advanced practices to quickly leverage those technologies as well as to nurture and empower the talent within our organization. Lifelong learning and digital upskilling are at the heart of our culture and long-term growth plans – and embedding this across our workforce will enable greater business agility and performance."

Julie Sweet, chair and CEO, Accenture, said, "We are incredibly proud to continue to partner with McDonald's as they reinvent the customer experience, stay ahead of their customers' changing needs and reimagine what a restaurant can be. This new work will be a leading example across industries of innovating with tech data and AI at the core, across the cloud continuum, all the way to the edge. And doing so in a way that keeps their people in the forefront, building the skills they need to meet and delight their customers in new ways every day."

Mint Velvet Boosts Creativity and Clarity with Centric Software Solutions

18 December 2023

Centric Software®, the Product Lifecycle Management (PLM) market leader, is pleased to announce that UK womenswear brand Mint Velvet has selected Centric solutions to advance

their digital transformation. Centric Software provides the most innovative enterprise solutions to plan, design, develop, source, price and sell products such as apparel, fashion, home, footwear, sporting goods, consumer electronics, cosmetics, food & beverage, and luxury to achieve strategic and operational digital transformation goals.

Mint Velvet began when founders Liz Houghton and Lisa Agar-Rea set out to create an unfailingly chic collection of contemporary, great quality staples and elevated fits that they felt were missing from their wardrobes. Mint Velvet's core concept, 'Relaxed Glamour', was born. Mint Velvet clothes are sold in almost 130 outlets in the UK and Ireland, and direct to consumer through their e-commerce site.

Mint Velvet has grown rapidly, expanding collections from about 60 to over 1000 SKUs per season. Managing product concept, range planning and buying has become ever more complex.

"We built the brand from scratch, and our spreadsheet-based systems were no longer fit for purpose," explains Harri Rands, Buying Director at Mint Velvet. "Things change so quickly that we couldn't trust the information in front of us, and we knew we had to look for a solution to bring everything together and establish a single source of truth."

Mint Velvet selected Centric PLM™ and Visual Assortment Boards for Planning. Centric Visual Boards for Planning merges information from multiple business systems into a highly visual format, allowing users to plan collections and SKUs visually pivoting by channel, delivery date, color and more.

"We started with PLM because product is the core of the business, and it was important to get the foundation right so that we could streamline collaboration and interconnectivity across departments," says Rands. "We loved the vision of not just a PLM system, but a full package for the end-to-end process of bringing a product to market. Centric's approach was highly collaborative and we valued their interest in us as a business and how we work, in order to get the product right."

Mint Velvet's teams are particularly excited about the addition of Visual Assortment Boards for a holistic view of all product from concept to store, to empower buyers, merchandisers, designers, marketing and retail teams to view assortments strategically in a visual pivot table fashion. This will drive better decision-making for optimal performance and a coherent brand experience across all areas of the business.

"The minute I saw Visual Boards, I thought, wow, this is game-changing," says Rands. "It truly brings the creative and data sides together and eliminates so many time-consuming manual processes. It will enable us to think more creatively, build themes from concept to store, and transform the buying process. It will give us time and clarity to focus on what really matters, which is the product."

"We are delighted to welcome Mint Velvet on board," says Chris Groves, CEO of Centric Software. "Mint Velvet is a strong brand with a determined vision to streamline their processes and grow, and we look forward to deploying Centric solutions and continuing to collaborate with them for the long-term."

Oracle and GDIT to Modernize Patient Health Records for Indian Health Service

19 December 2023

Oracle Health and General Dynamics Information Technology (GDIT), a business unit of General Dynamics, are collaborating to modernize Indian Health Service's (IHS) electronic health record (EHR) system. An agency within the Department of Health and Human Services, IHS provides federal health services to 2.6 million American Indians and Alaska Natives belonging to 574 federally recognized tribes across 37 states. Under a 10-year, \$2.5 billion contract, GDIT will replace the agency's current system with a cloud-based enterprise EHR system from Oracle Health.

"Oracle Health's EHR system has been proven across the most complex operating environments, including supporting the US Department of Defense locations around the world," said Mike Sicilia, executive vice president of Oracle Global Industries. "Working alongside GDIT, we will be able to bring the same level of modern, secure systems to IHS for the betterment of their staff and millions of American Indians and Alaska Natives who rely on their services."

The new cloud-based Oracle Health EHR system will enable IHS and tribal health facilities to improve care team coordination and enhance patient experiences. By providing modern tools and better access to data with a single, longitudinal health record for each patient, clinicians will be able to make more informed care decisions that can help improve outcomes.

Running on the high performance, security, and compliance of Oracle Cloud Infrastructure (OCI), the EHR system will be able to scale to meet the future needs of the program. The system will be hosted in a secure Federal Risk and Authorization Management Program (FedRAMP) high cloud environment.

"For over 20-years GDIT has partnered with IHS to deliver mission-critical IT systems to support better patient healthcare, including developing and maintaining the agency's current health records system," said Kamal Narang, GDIT's vice president and general manager for Federal Health. "We look forward to this next phase of our collaboration to deliver IHS' new EHR system to further support the health and wellbeing of millions of American Indians and Alaska Natives."

Qualtrics Insights Help Dow Unlock \$300 Million in Value Through Digital and CX Transformation

19 December 2023

Qualtrics, the leader and creator of the experience management (XM) category, partnered with Dow, a renowned 125-year-old materials science company, to launch a digital transformation that has generated \$300 million in value and a 20% improvement in Dow's customer satisfaction scores.

"In the experience economy, the brands that win and continue to stay at the forefront are those that listen to their customers and improve processes across every critical interaction,"

said Sachin Goregaoker, Chief Product Officer of Qualtrics XM for Digital Frontlines. “We are proud to help Dow realize its goal to make every customer interaction easy, enjoyable, and effective with a data-led enterprise-wide CX strategy.”

Dow aims to be the most innovative, customer-centric, inclusive and sustainable materials science company in the world, but anticipating customers’ needs and preferences presented challenges given Dow had no centralized CX teams or common CX measures across the enterprise.

For B2B organizations like Dow, the “customer” is often made up of multiple stakeholders, each with different titles, areas of expertise, locations, and decision-making power, requiring the buy-in of many stakeholders over a longer period of time compared to a typical B2C sale.

However, organizations can’t afford to make a negative first impression.

Qualtrics research found that a positive first B2B buying experience is more closely tied to a customer’s likelihood to renew than any other journey touchpoint.

Adopting an enterprise-wide CX strategy

Qualtrics XM for Customer Frontlines enabled Dow to ask questions of multiple customer personas spanning the entire Dow customer journey to understand the unique needs of each Dow customer. Dow used customizable data displays to quickly analyze and publish key results internally, increasing transparency across the organization and enabling the CX team to measure how the customer experience progressed over time.

Dow compared these CX insights with operational and financial metrics like on-time delivery, product availability, and revenue growth to reveal meaningful correlations and opportunities for improvement. These insights informed targeted changes to the customer journey including the implementation of new shipment visibility and tracking capabilities, upgrades to order placement experiences, and structural changes and new tools that enhanced supply, demand and inventory management that improved product availability. All of these deliberate enhancements resulted in a 20% boost in customer satisfaction scores.

Modernizing Dow.com with Qualtrics Frontline DigitalXM

Using Qualtrics Digital CX and the Qualtrics XM Institute CX Maturity assessment, Dow identified several opportunities to improve the effectiveness of its online and digital properties by designing new or enhanced digital experiences for customers. Among those, is a groundbreaking, AI-powered digital capability that enables customers to create new products faster by using Dow’s formulation visualization and predictive modeling tools.

As a result of its digital transformation initiatives, Dow saw breakthrough changes in some of the key performance measures, including a 450% increase in repeat visitors for its digital commerce platform, an increase of new leads generated via digital engagement from 5% to 65%, and a more than 200% increase in digital orders.

At the same time, customer satisfaction improved across nearly every digital touchpoint, from finding technical information on the website to placing orders. Overall, Dow’s digital transformation has created \$300 million in value in less than five years thanks to revenue and margin growth, as well as structural cost reductions.

“We see Qualtrics as the central enabling platform that helped us design, build, and then confidently prioritize and enhance our CX best practices over time,” said Riccardo Porta, the global director for CX at Dow. “From the early days of our journey, Qualtrics solutions have allowed us to rationalize and monetize our CX disciplines to unlock new value for our customers and for Dow. We also value the support and partnership that Qualtrics and its Experience Management Institute (XMI) are providing to the AMCX Consortium, a group of B2B manufacturers aimed at benchmarking and elevating CX across B2B”.

Turning CX insights into operational and business impact

Dow’s collaboration with Qualtrics continues to strengthen its position as a leading materials science company while driving innovation, customer-centricity, and sustainable growth. By layering company operational metrics on top of experience data gathered using Qualtrics, Dow found that satisfaction and buying behavior are significantly influenced by product availability at the time of order placement.

This provided new insight into how to balance the benefits of higher inventory levels vs. higher cash flow. Armed with these insights, Dow invested in integrated planning and inventory optimization technologies, resulting in lower inventory levels without compromising customer experience. Dow reduced inventory volume by 7%, equivalent to over \$1 billion in cash flow, all while improving customer confidence in product availability by 10% and the CX score by 8.5%.

Riyadh Air Collaborates with Accenture to Build Core Technology Capabilities

18 December 2023

Riyadh Air has signed a three-year strategic agreement with Accenture to help deliver its technology foundation and capabilities as part of its vision to be the world’s first digitally native airline. Accenture will help set up Riyadh Air’s cloud-only infrastructure, cybersecurity capabilities, managed services and operations as the airline gears up for its launch.

The initiative will enable Riyadh Air to operate in a new era of aviation with digital services at its core, using cutting-edge technologies such as cloud data and AI to help deliver a seamless travel experience for its guests and employees. The core enterprise system will enable the company to scale as it aims to offer over 100 destinations by 2030.

Adam Boukadida, chief financial officer of Riyadh Air, said, “As a digitally native airline, Riyadh Air will be at the forefront of innovation and technology, allowing us to deliver world-class service to our guests. There is a considerable amount of unseen work taking place behind the scenes enabling both our operations and user experience, with Accenture, as our strategic technology partner, helping us to deliver, secure and operate foundational capabilities.”

Emily Weiss, senior managing director at Accenture and head of its Travel practice globally, said, “The launch of Riyadh Air is a landmark moment for the aviation industry as a whole; a brand-new airline that’s designed from the ground up, harnessing the latest technologies to create hyper-connected experiences that meet the demands of today’s, and tomorrow’s travelers. Drawing on our deep industry and digital expertise, we are proud to be collaborating with Riyadh Air to help shape the future of travel.”

Boukadida added, “Accenture is pivotal in enabling Riyadh Air’s cloud-first strategy, and our unique architecture will ensure that our technology stack is future-proof and remains legacy-free. It also will be built and supported with the highest level of cybersecurity and automation in mind from its inception.”

Siemens collaborates with sureCore and Semiwise to pioneer quantum computing ready cryogenic semiconductor designs

20 December 2023

Siemens Digital Industries Software announced its collaboration with sureCore and Semiwise to develop groundbreaking cryogenic CMOS circuits capable of operating at temperatures near absolute zero – a fundamental component of quantum computing systems. The joint effort holds the potential for dramatic advances in both performance and power efficiency for next-generation integrated circuits (IC) targeting quantum computing – considered the leading edge in the high-performance computing (HPC) research and development.

The key to unlocking the potential of quantum computing for HPC and other fast-growing applications lies in the availability of control electronics capable of operating at cryogenic temperatures. Using advanced analog/mixed-signal IC design technology from Siemens, Semiwise has developed cryogenic CMOS circuit designs featuring cryogenic SPICE models as well as SPICE simulator technology that can perform accurate analyses at cryogenic temperatures.

Semiwise is providing this intellectual property (IP), developed using Siemens’ Analog FastSPICE (AFS), to sureCore for the development of sureCore’s revolutionary line of CryoIP, which aims to enable the design of CryoCMOS control chips seen as crucial for unlocking the commercial potential for quantum computing.

In the development of its CryoIP product line, sureCore also used Siemens’s Analog FastSPICE platform and Siemens’ Solido™ Design Environment software, both of which demonstrated reliable and accurate operation at cryogenic temperatures, empowering sureCore to construct analog circuits, standard cell libraries, and memory designs including SRAM, register files, and ROM, using Semiwise’s cryogenic transistor models. Further, Siemens’ Analog FastSPICE software showcased exceptional capabilities in handling foundry device models at cryogenic conditions, helping deliver efficient analog, mixed-signal, and digital circuit design and verification functionality without convergence issues. The result is a high level of accuracy and performance, setting the stage for potentially groundbreaking advancements in quantum computing.

sureCore is rapidly progressing towards its first CryoIP tapeout, leveraging GlobalFoundries’ 22FDX® PDK.

Paul Wells, CEO of sureCore, underscored the pivotal role of this partnership. “The critical storage element and the bit cell must essentially be treated as an analog circuit that is highly sensitive to process variability and mismatch,” said Wells. “When we develop new memory designs and their associated compilers, we need to run thousands of statistical circuit

simulations to guarantee the yield and reliability of our IP. Our partnership with Siemens EDA has enabled us to leverage Siemens' Custom IC verification technology to build robust cryogenic IP cores, specifically tailored for Quantum applications."

"This partnership symbolizes Siemens' unwavering dedication to advancing the quantum computing domain," said Amit Gupta, general manager and vice president of the Custom IC Verification Division, Siemens Digital Industries Software. "The groundbreaking technologies and solutions developed have the potential to redefine the boundaries of high-performance computing."

Siemens' Analog FastSPICE platform, powered by technology from Siemens' Analog FastSPICE eXTreme™ platform, offers cutting-edge circuit verification for nanometer analog, radio frequency (RF), mixed-signal, memory, and custom digital circuits. It holds foundry certifications across all major foundries and is qualified across various process nodes, from mature to the most advanced. Siemens' Analog FastSPICE platform offers a comprehensive use model, including small signal, transient, RF, noise, aging, and multi-sim verification capabilities, with drop-in compatibility with industry-standard SPICE-based flows. This all-encompassing solution boasts high performance, capacity, and flexible features.

Siemens' Solido Design Environment plays a pivotal role by providing a comprehensive cockpit for nominal and variation-aware analysis and encompasses SPICE-level circuit simulation setup, measurements, regressions, waveforms, and statistical results analysis. Powered by AI technology, Solido Design Environment assists users in identifying optimization paths to improve circuit power, performance, and area - facilitating production-accurate statistical yield analysis, reducing runtime compared to brute-force methods.

Siemens Xcelerator: AI integrated in Mecalux's new picking robots boosts efficiency

14 December 2023

Mecalux, a global provider of automated warehouse solutions, warehouse management systems, and stacker cranes, and the technology company Siemens have combined their expertise and experience in the field of industrial automation technologies. The partnership will optimize picking tasks in warehouses and logistics centers with a new solution that uses artificial intelligence. The solution is based on Siemens Xcelerator, the open digital business platform that includes a portfolio of software and IoT-enabled hardware, an ecosystem of partners, and a marketplace.

Simatic Robot Pick AI adds AI to warehouses

The new automated solution from Mecalux is built on Siemens' Simatic Robot Pick AI technology, an image processing software for robot solutions based on machine learning. The 3D image processing software allows robots to pick any item in warehouse picking tasks, regardless of its shape and size. A pre-trained deep learning algorithm controls the ability to identify 3D positions for picking. Reliable picking positions are calculated in the shortest possible time, which enables high-throughput systems without collisions in the box. Simatic Robot Pick AI also offers seamless integration into the TIA Portal automation platform. The

Simatic Robot Library can also be used to establish standardized communication between robot and PLC systems.

"The technology partnership with Siemens has enabled us to develop a highly flexible, safe, and user-friendly robot solution that adapts to the specific needs of our customers," says Javier Carrillo, CEO of Mecalux.

Mecalux launches new picking solutions for cobots on the market

Mecalux has launched two collaborative picking solutions based on Simatic Robot Pick AI: a cobot that's programmed to safely share the workstation with operators and another cobot that works autonomously in high-performance picking stations. The Mecalux picking solution is designed for 24/7 operation with up to 1,000 picks per hour.

A camera positioned above the cobot's picking box captures a 3D image of the goods in order to compile the orders. Once the item has been selected, the cobot places it in the picking box with high precision, making optimal use of the available space. Mecalux has developed an algorithm that ensures that the cobot places the goods in exactly the right place. With the help of Mecalux's warehouse management software, the collaborative picking solution can automatically change its gripping system depending on the type of goods. After receiving a new box, the vision processing system and the AI algorithm from Siemens identify the items it contains. Both determine the most suitable way to pick each product. Both cobots perform the picking process completely autonomously and with maximum accuracy.

"The picking robot solution from Mecalux shows how AI-controlled picking robots will now be more flexible, allowing different shapes, sizes, and types of packaging to be processed quickly. The effects of the labor shortage can now be mitigated and operational efficiency in warehouses increased at the same time," explains Dr. Alexander Bollig, Vice President of the Vertical Market Intralogistics at Siemens Digital Industries.

SIX Partners with TCS to Transform its Swiss Post Trade Market Infrastructure

18 December 2023

Tata Consultancy Services (TCS) has helped SIX, the operator of the Swiss and Spanish financial market infrastructures, modernize its post trade platform for the Swiss market. This has resulted in a more resilient and robust post trade market infrastructure, and accelerated SIX' journey towards becoming a key player in the global securities services industry.

SIX' mission critical core platform was originally built by TCS in the 90s, and was one of the world's first online real-time settlement systems. It serves as the backbone of the Swiss market's post-trade value chain, holding securities worth a few trillion Swiss Francs, making this a high-stakes transformation program of national significance.

With its contextual knowledge and experience in leading similar large-scale transformations for clients, TCS worked in close collaboration with SIX and various technology providers to design an innovative transformation strategy and a state-of-the-art open systems environment. TCS leveraged its design labs to create a modern portal that reimagines the user experience and empowers them to respond to end-client queries much faster. TCS was able to fast-track the

development with an ingenious automation solution, which migrated over 500 billion records in record time, saving 4-5 months in the overall process.

The open system offers greater flexibility, security, and ease of maintenance. It is more scalable and currently processes more than 4 million transactions per day, covering more than 60 global markets. Its modern, cloud-ready architecture can also integrate more easily with digital ecosystems, opening-up possibilities of innovative new products and services.

The new system enables easier customization of the post trade processes individually, giving each business greater flexibility and agility to meet differing market requirements in different parts of the world. This makes SIX' business more customer-centric and market-friendly, enhances its competitive differentiation and supports its growth internationally.

Arturo Merino, Head IT, Securities Services, SIX, said: "This is going to give a second life to our core CSD platform and make our relationship with TCS even stronger. We are conscious of the pressure and high expectations that we have put on TCS for the most complex project in recent years, but the TCS team has lived up to the expectations with an outstanding level of commitment. Our main goal is becoming more customer-centric and user friendly and we have achieved it with the platform upgrade. I am sure that we can count on TCS for the many challenges that SIX has ahead."

Uma Rijhwani, Business Unit Head, BFSI – Europe Central, TCS, said, "TCS and SIX have achieved a major feat by modernizing the Swiss post trade platform of SIX in record time. The new, state-of-the-art system brings to bear the power of digital technologies to transform the Swiss post-trade market infrastructure, while providing a solid foundation for SIX' expansion into global markets."

Smart robotic automation solutions from ABB to support sustainability targets for Volvo Cars

19 December 2023

ABB announced the strengthening of its long-standing partnership with Volvo Cars to supply more than 1,300 robots and functional packages to build the next generation of electric vehicles. This will support the Swedish car manufacturer to achieve its ambitious sustainability targets.

"The automotive industry's historic transformation, driven by increasing consumer demand for electric vehicles and a desire to operate more sustainably, is creating new opportunities as well as challenges for global manufacturers," said Marc Segura, ABB Robotics President. "This latest commitment from our partner Volvo Cars demonstrates our shared focus of delivering more sustainable manufacturing. Through our new, energy efficient large robot family and OmniCore™ controllers we will help to deliver energy savings of up to 20 percent at sites around the world."

This agreement includes functional packages covering various production tasks, from spot-welding, riveting, and dispensing to flow drilling and ultrasonic weld inspection. Each package is a ready-to-use, customer-proven combination of hardware, software and services and will be

implemented at Volvo Cars' facilities in Torslanda, Sweden and Daqing, China. Alongside the hardware and functional packages, ABB's latest range of OmniCore robot controllers will help to deliver energy savings of up to 20 percent at sites due to their highly efficient power electronics and use of regenerative braking within the robot.

During the deployment, ABB will ensure production remains uninterrupted through the use of its RobotStudio® planning and programming software platform to visualize and optimize the deployment before the robots are installed. By developing and validating the required automation systems in a virtual space, Volvo Cars and ABB will create solutions that can be engineered once but deployed multiple times.

Volvo Cars and ABB share a long tradition of joint developments to make the production of cars more efficient, and to continuously improve the capabilities of industrial robots in this area. This latest project will see the two companies continue to work together over the next few years, with the first deployments anticipated in early 2024. It is the latest in a series of solutions by ABB aimed at helping the global automotive industry reach its ambitious sustainability targets and transition to electric vehicle production.

Product News

ALLPLAN launches Allplan Cloud services with Allplan Subscriptions

14 December 2023

ALLPLAN, a global provider of BIM solutions for the AEC industry, announced Allplan Cloud, a consolidated solution that promises to elevate design-to-build workflows for optimal efficiency. From October 1, 2023, Allplan Cloud will be seamlessly integrated into all Allplan Subscriptions, offering a range of features to unlock the full potential of data. The very first release in the expanding Allplan Cloud portfolio is the Allplan Cloud Viewer, an IFC file visualization tool. This versatile tool is now available free of charge to all Allplan Subscription users and Bimplus Professional users.

Allplan Cloud bridges the gap between desktop and cloud applications, providing users with a robust cloud-based BIM collaboration platform. Subscription users will gain access to essential multi-user tools, that enable seamless project collaboration from anywhere. The platform also empowers teams to efficiently manage and distribute drawings and plans, promoting streamlined teamwork in the office. Furthermore, Allplan Cloud introduces specialized cloud applications for structural analysis solutions, ensuring a comprehensive and cohesive experience.

"We are extremely proud of our approach to cloud-based processes through Allplan Cloud services and this latest development of Allplan Cloud Viewer which also incorporates state-of-the-art technology from That Open Company. ALLPLAN is dedicated to supporting superior OPEN BIM collaboration and delivering superior design-to-build workflows for AEC professionals across building and infrastructure projects", says Nigel Rees, Product Director Cloud Services at ALLPLAN.

Allplan Cloud Viewer

The new technology IFC file viewer, Allplan Cloud Viewer, initially embedded in Bimplus, allows users to rapidly visualize an IFC file. Rather than uploading and waiting for large IFC files, users can now quickly preview a new file, view, and check IFC models visually before fully uploading and creating a revision in Bimplus.

“Allplan Cloud Viewer offers additional workflows for fast viewing IFC files within Bimplus. Even extremely large IFC files can now be viewed exceptionally quickly, with open to view times – depending on the content and filesize - up to 100 times faster than viewing associated with upload and processing”, explains Thomas Müller, Product Manager Allplan Cloud & Bimplus. *“In addition, for BIM based projects users can now easily and promptly view the original IFC file and compare it with further processed models in Bimplus. Finally, users can quickly view uploaded IFC files in the document management area of Bimplus.”*

Roman Christen, Head of Building Construction from the Swiss construction company Christen AG testifies: *“Model-based construction with BIM is the future, and ALLPLAN’s Bimplus is the central software for collaboration. I am thrilled with Bimplus. It offers so many possibilities but is still clear and fast.”*

Allplan Cloud Services

Allplan Cloud includes the functionality of Bimplus by ALLPLAN, and former standalone ALLPLAN products such as Allplan Share, Allplan Exchange and Allplan Workgroup Manager. ALLPLAN is committed to continuously integrating its authoring tools with its collaboration offerings including integration with recently upgraded plan distribution functionality and our cloud-based model management tool. It also includes additional applications such as Autoconverter for exchange with structural analysis solutions. Additionally, a 12-month subscription to Solibri Inside for seamless model checking is available for new Allplan subscriptions purchased before December 31, 23.

“Collaboration is a crucial pillar for successful project delivery, whether within teams or spanning multiple stakeholders. Our core design principles focus on improving the efficiency of design-to-build workflows including via cloud-based processes. Our overarching goal is to provide users with a comprehensive solution that enables efficient collaboration across all their projects. This means granting appropriate individuals access to pertinent data, regardless of their location, all within a secure and high-performing workflow”, stated Product Director Nigel Rees.

Availability

Allplan Cloud services are available with all Allplan Subscriptions. The Allplan Cloud Viewer is now available through Allplan Cloud services or via Bimplus Professional.

Ansys Launches AVxcelerate Autonomy, Streamlining Development and Validation of ADAS/AV Systems for L2+, L3, and Beyond

19 December 2023

Ansys launches AVxcelerate Autonomy, a first-of-its-kind, end-to-end solution capable of reducing cost and time-to-compliance for L2+, L3, and above ADAS/AV systems by 100,000X. Co-developed with the BMW Group, Ansys AVxcelerate Autonomy empowers companies to further digital transformation efforts and achieve the majority of test driving required for compliance virtually.

The race to develop safe, reliable autonomous vehicles is unfolding in a virtual environment. Increasingly powerful digital engineering technology enables users to validate safety by virtually evaluating millions of known and unknown situations that mimic real-world driving scenarios.

The latest evolution in AV simulation technology, Ansys AVxcelerate Autonomy is cloud-native, modular, and designed around an MBSE framework. Its flexible, open architecture follows the Association for Standardization of Automation and Measuring Systems (ASAM) openX standards. This industry benchmark facilitates seamless data transfer from the toolchain and supports integration into any enterprise-level solution via fixed APIs. The solution is in the process of becoming ISO 26262 certified, allowing companies to develop their workflows for L3 and above certification.

AVxcelerate Autonomy utilizes expansive scenario variation management capabilities to perform sensitivity and reliability analyses that help users determine the probability of ADAS/AV system failure and validate systems at-scale to establish a case for safety justification. Designed for continuous safety validation, AVxcelerate Autonomy can accommodate over-the-air updates for the lifecycle of the product.

Leveraging the power of a robust, adaptive exploration algorithm optimized in the cloud, users will be able to accelerate sensitivity analyses by 1,000X compared to traditional algorithms. By replacing most of the physical tests with virtual driving, users can further accelerate development by 100X to realize a potential 100,000X reduction in cost and time-to-compliance.

“Navigating the complex rules around regulatory compliance by providing safety justification is one of the biggest challenges for automotive manufacturers,” said Walt Hearn, senior vice president of worldwide sales and customer excellence at Ansys. “Moving from one level of autonomy to the next requires extreme technological advances that are accessible, scalable, and easily implemented. The predictive accuracy and framework of Ansys AVxcelerate Autonomy can speed autonomous technology development to support the industry in realizing a future where traffic collisions are extinct.”

Visit Ansys at CES in Las Vegas from Jan. 9-12, 2024, at booth #6500 to learn more.

CASTOR introduces a free trial version of its automatic part identification software

12 December 2023

CASTOR, an industrial manufacturing software for automatic part identification, is now available for a free trial. The company has launched a free trial version, allowing potential customers to explore the capabilities of the software.

CASTOR's software solves the challenge of identifying where, when, and how to utilize the benefits of Additive Manufacturing, by automating the process of screening parts and highlighting the parts that make a good business case for Additive Manufacturing.

Automatically identify opportunities for Additive Manufacturing

With CASTOR's free trial, users can gain the ability to analyze and determine the Additive Manufacturing potential and benefits of a selected part. This opportunity enables them to understand how the software's analysis can empower them to make informed decisions based on a deep analysis. The deep analysis considers material properties, cost-effectiveness, digital supply chain benefits and environmental benefits. It recommends optimal combinations of 3D printers and printable materials based on specific part requirements. It estimates production costs, lead times, Co2 emission saving and gives a visualizing break-even point between the manufacturing methods. Given the insights provided by the software, users can confidently select the right technology with the right material and realize the value that AM offers.

Accelerating the AM transition

The automatic process enables engineers to identify suitable parts for AM in seconds, accelerating the evaluation process and reducing time-to-market for AM projects. "Our mission is to help every engineer reduce the time and effort required to identify the opportunities for Additive Manufacturing" says Omer Blaier, Co-Founder & CEO of CASTOR. "Through the Trial, we want to enable every engineer experience the value of our software firsthand"

CASTOR'S Full version - Identifying suitable parts for Additive manufacturing. At Scale

In the world of Additive Manufacturing, time is of the essence. The process of selecting the optimal parts for 3D printing out of thousands of parts can be time-consuming.

CASTOR's software has the ability to analyze thousands of parts at once and identify the opportunities where Additive Manufacturing makes sense, from a technical, economical, and sustainable point of view. CASTOR provides a wide range of advanced capabilities and offers multiple tools, both for new adopters and for Additive Manufacturing experts. It enables users to improve efficiency by finding weight reduction and part consolidation opportunities. The advanced capabilities include the ability to run a quick assessment of a part's likelihood to failure, using a unique, tailored to AM, Finite Elements Analysis.

Centric Software Transforms Assortment Optimization with Centric Visual Boards

15 December 2023

Centric Software® is pleased to announce that in 2023, brands and retailers from across the globe are accelerating more targeted assortment decisions by adopting Centric Visual Boards™ to get to the heart of consumer demand. Centric Software provides the most

innovative enterprise solutions to plan, design, develop, source, buy, make, price, allocate, sell and replenish products such as fashion, outdoor, luxury, multi-category retail, grocery, food & beverage, cosmetics & personal care and consumer electronics to achieve strategic and operational digital transformation goals.

Centric Visual Boards transform the assortment planning and merchandising process by leveraging modern tech to link people, processes, and systems in an easy to use, visual format.

“Multimillion and even billion-dollar retailers are still relying on personal productivity tools like spreadsheets, slideshows, and emails for critical assortment decisions. In a product-driven industry, this creates a gap between creative and data-driven roles, rendering teams unable to deliver the precise, well-curated assortments that consumers demand,” explains Humberto Roa, VP of Innovation at Centric Software. “Planning, merchandising, buying, design, and development teams need to be able to view, pivot, and update assortments with a visual-first orientation. But of course, the information needed to bring the best possible assortments to market comes from many different sources and in many formats. Visual Boards brings all of that together so brands and retailers can deliver more targeted assortments to the right channels and stores, at the right time.”

Centric Visual Boards can be compared to visual pivot tables that use images to represent vast amounts of data from any PLM, PIM, Planning or ERP system. Interactive tools are populated with real-time information that can be employed by every role from design, planning, merchandising and buying, to procurement, sourcing, marketing and sales. The Centric Visual Boards family includes boards for assortment planning, product ideation and for delivering digital buy-ready omnichannel showrooms. This empowers teams to optimize end-to-end range category management, buying processes and to deliver closer to consumer demand.

Centric Visual Boards are used by major global brands and retailers such as ASICS, Swarovski, Lands' End, Kmart, Arc'teryx, Eileen Fisher, Givenchy, FILA and more.

“It’s like the Tower of Babel where you have the creative people speaking their language and the data geeks speaking only data, but Centric Visual Boards act as the translator,” says Jose Perez, Senior PLM Brand Operations at Swarovski.

Centric Visual Boards customers have experienced benefits such as 90% faster assortment creation and update time, and 75% faster buy session setups. Others have saved millions in operational and travel costs, redirected time to value-added work and innovation, elevated sustainability, and saved countless hours of time.

“Centric Visual Boards are a unique innovation that we have developed in close collaboration with our customers,” says Chris Groves, CEO of Centric Software. “As part of our seamless concept-to-replenishment user experience, Centric Visual Boards deliver a collaborative visual platform for informed assortment decision-making and swift end-to-end execution, ultimately empowering our customers to thrive in a competitive and unpredictable retail environment.”

ENGYS® RELEASES HELYX® VERSION 4.1.1

18 December 2023

ENGYS is pleased to announce the release of **HELYX® version 4.1.1**, along with updates to all HELYX add-ons.

HELYX 4.1.1 is focused on bug fixes and code refinements to address known issues found in the previous version 4.1.0. For more information, users should refer to the Release Notes provided with the software.

To access the latest release, please log in to the ENGYS Customer Portal and navigate to the Downloads section to access the latest installation files for Linux and Windows.

EPLAN Data Portal Update 02 December 2023

20 December 2023

475 manufacturers and more than 1,585,000 data sets are available with the update December 14, 2023.

New manufacturer catalogs

- Shanghai Flexem Technology Co., Ltd. – 26 new data sets with signal devices
- Shenzhen Samkoon Technology Co. Ltd. – 88 new data sets with amplifiers, controllers, PLC and signal devices
- Shihlin Electric & Engineering Corporation – 2,628 new data sets with contactors

Updates and new data

- ABB LTD – 6 new data sets with converters
- Balluff GmbH – 7 new data sets with sensors, voltage sources and generators
- Bernstein AG – 153 new and 84 updated data sets with generals, sensors, switches and pushbuttons
- Cembre Inc. – 39 new data sets with terminals
- Danfoss Drives A/S – 53 new data sets with converters
- ETI Elektroelement d.o.o. – 299 new and 1,442 updated data sets with miscellaneous, protection devices and transformers
- Fagor Automation, S. Coop. – 4 new and 29 updated data sets with converters and PLC
- Festo SE & Co. KG – 155 new and 7 updated data sets with accessories, amplifiers, controllers, electrically-operated mechanical devices, fluid power – special items, fluid control terminal, general, measuring instruments, motors, resistors, sub-plates and valves

- Fuji Electric FA Components Co., Ltd. – 234 new and 5 updated data with contactors, miscellaneous, protection devices, relays, sensors, switches and pushbutton, signal devices, and Terminals
- Getriebebau NORD GmbH & Co. KG – 17 new and 286 updated data sets with converters and generals
- Interroll (Switzerland) AG – 1 new data set with converters
- KEBA Group AG – 1 updated data set with converters
- KEYENCE CORPORATION – 64 new data sets with amplifiers, controllers, sensors, switches and pushbuttons
- Lenze SE – 4 updated data sets with filters and terminators
- Leuze electronic GmbH + Co. KG – 187 new data set with sensors, switches and pushbuttons
- Murrelektronik GmbH – 1,986 new and 1 updated data set with cables
- Nanjing Decowell Automation Co., Ltd. – 45 new data sets with field distribution devices
- NIHON PISCO. CO., LTD – 19.674 new data sets with fluidpower-accessories
- Phoenix Contact GmbH & Co. KG – 11 new and 17 updated data sets with housing accessories – internal extensions, terminals, plugs, voltage sources and generators
- Pilz GmbH & Co. KG – 32 new and 42 updated data sets with generals, cables, sensors, switches and pushbuttons
- Rittal GmbH & Co. KG – 35 updated data sets with busbars, enclosure, electrical engineering – special items, housing and routing accessories
- Rockwell Automation – 1 new and 159 updated data sets with PLC
- Rockwell Automation (NFPA Data) – 1 new and 159 updated data sets with PLC
- Suzhou Inovance Technology Co., Ltd. – 77 new data sets with converters
- Schneider Electric SA – 43 updated data sets with cables, contactors, PLC, relays, voltage sources and generators
- SEW-EURODRIVE GmbH & Co. KG – 2 new and 6 updated data sets with inductors and resistors
- Sick – 39 new data sets with sensors, switches and pushbuttons
- WAGO GmbH & Co. KG – 84 new and 351 updated data sets with terminals
- Weidmueller Group – 113 updated data sets with protection devices and terminals
- Wuhan Maxsine Electric Co., Ltd. – 4 updated data sets with amplifiers and controllers

Summary

- 3 new manufacturer

- 31 updated manufacturer
- 25,913 new data sets
- 3,693 updated data sets
- 0 deleted data sets
- 26,103 new parts with EDS
- In total 991,337 parts with EDS
- In total 323 manufacturers with EDS parts
- In total 1,585,931 data sets live in EDP

International TechneGroup, Inc. Unveils CADfix Viz 2: Elevating CAD To Visualization Conversion

12 December 2023

International TechneGroup, Incorporated (ITI), is thrilled to announce the launch of CADfix Viz 2, the cutting-edge solution for optimizing and converting 3D CAD model assets for use in visualization and virtual reality systems. This latest release is testament to ITI's commitment to providing users with a more effective and efficient process for translating CAD models into high-quality lightweight meshes for use in downstream applications.

CADfix Viz 2 brings a host of updates and enhancements. The latest meshing algorithms provide a solid foundation for the CAD to mesh process, offering greater robustness, improved mesh structure and enhanced facet quality for superior results with higher quality visualizations.

Significant advances in the simplification options available help reduce mesh detail and complexity prior to export. The hole, protrusion and internal detail removal tools have all seen improvements in range of function, speed, and accuracy. A new automatic mid-surface tool has been introduced to allow the reduction of thin-walled parts to single surfaces, significantly reducing the triangle count. CADfix Viz 2 can also quickly detect and delete duplicate faceted bodies, and a "Pick Similar" function allows users to rapidly select similar shaped parts for removal or simplification.

Assemblies can be handled more effectively and simplified with a new compression tool to remove duplicates within the assembly structure, and a new "auto-build" function will automatically create instanced parts to remove unnecessary duplicate geometry.

The import and export interfaces in CADfix Viz 2 have been updated to align to the latest industry standards and proprietary CAD formats, and a new export to the Universal Screen Description (USD) file format added. The FBX interfaces have also been extended to support important UV maps for visualization.

Henry Bucklow, CADfix Viz Product Manager at International Technegroup, Inc., expressed his enthusiasm for the release, stating, "I'm very excited to share CADfix Viz 2 with our customers,

and to see them save time and effort by streamlining their CAD to visualization processes with the enhanced mesh generation and simplification tools.”

International Technegroup, Inc. remains dedicated to pushing the boundaries of innovation in the CAD industry. CADfix Viz 2 reflects our ongoing commitment to providing users with powerful and versatile tools that streamline their workflows and elevate their design processes.

IronCAD Unveils Cutting-Edge Design Software Update, IronCAD 2024 Boasts Exciting Features and Enhancements

20 December 2023

IronCAD, a trailblazer in the world of design and innovation of MCAD software solutions, proudly announces the much-anticipated release of IronCAD 2024. This latest version showcases a myriad of new features and enhancements meticulously crafted to elevate key functionalities, streamline the design process, and deliver an unparalleled user experience. These improvements continue to solidify IronCAD’s leadership as a productivity leader in MCAD design for machinery and fabrication design applications. Users will immediately feel the impact of IronCAD 2024 innovations that provide more powerful capabilities to design faster and smarter.

Key Focus Areas for IronCAD 2024:

This year’s development efforts have centered around fortifying IronCAD’s fundamental design capabilities that distinguish IronCAD as a versatile and productive CAD Solution in machinery and fabrication industries. The primary focus areas include:

1. **Bulk View Creation & Common Component Process (Automated Drawing Processes):** IronCAD 2024 introduces advancements in the automation of the drawing creation process, empowering users with unprecedented efficiency.
2. **3D Design Environment Including Innovative and Structured Design:** Extending IronCAD flexibility and versatility, 2024 marks a significant step forward with key functionalities in the core design process that make IronCAD more productive in MCAD Design.
3. **Large Assembly Capabilities and Ease of Use:** IronCAD 2024 prioritizes enhanced performance for large assemblies in both 3D and 2D environments, ensuring a user-friendly and interactive design experience.
4. **Enhanced 2D Mechanical Detailed Design Environment:** Vast improvements in the mechanical detailing environment improve efficiency in producing production-level drawings.
5. **Import/Export Additional Formats:** Expanded import/export capabilities broaden compatibility with both MCAD and BIM applications, allowing users to work with a wider range of file formats effortlessly.

Key Detailed Features of IronCAD 2024 Supporting the Focus Area

IronCAD 2024 introduces numerous innovative features that are tailored solutions to meet specific customer needs. A few of the key features include:

1. 3D Design Environment Including Innovative and Structured Design
 - Link Part Tool (for Existing Scenes and Drag & Drop Actions from Catalog)
 - Support for External Links Using Different Configurations in the Same Scene
 - Copy as Linked Body Support (More Access Support on TriBall)
 - Replace Feature from Catalog (Extension of Replace Part/Assembly/Sketch)
 - Rotational/Display Performance (H-Dynamic Assist)
 - Structure Part Body Properties Access
 - Structure Part Body Property BOM and Bodies Included for BOM Settings
 - Enhanced Structural Steel Weldments for Gussets and End Caps
 - Top-Down Skeleton Design Approach Improvements
 - Assembly Pattern Tool with Associative Edge/Face References
2. Sheet Metal Modeling Improvements
 - Unfold Part Remember to Add Stock to Account for Extra Material in Manufacturing
 - Solid to Sheet Metal Support Miter with Cut Sketch and Rip Edges
 - Rapid Sheet Metal Quotation Tool
3. Drawing Functionality: Improved drawing capabilities enhance precision and creativity in design.
 - Controls for Automatically Setting Assemblies, Parts, and Features to Specific Layers and Line Types
 - Ability to Individually Shaded Selected Parts in Drawing Views
 - Projection View Standard View Types
 - Alignment Options for Break Lines Ends in Broken Views
 - Improved DWG/DXF Export Settings
4. CAXA DRAFT 2D Mechanical CAD Drawing Improvements
 - Create Drawing from Selected 3D Part/Assemble using CAXA DRAFT
 - Section View Depth Setting Added to CAXA Draft
 - Multi-Frame/Paper Drawing Support
 - New Grouping Command to Group/Ungroup Selected Elements
5. Collaboration in Import/Export, Viewing, Rendering, and Design Sharing
 - IronCAD Native Translator, support for the latest MCAD file type versions

- New IronCAD Native Translator for BIM (Coming Q1 2024)
- KeyShot for IronCAD Realistic Rendering Improvements
- Search for Commands Expanded Search to Help System and Related Topics
- Synergy Collaboration Platform Improvements in External Collaboration

As a core principle, IronCAD is dedicated to delivering superior user experiences, where we prioritize quality improvements and robust quality assurance (QA) processes. IronCAD 2024 has built upon this principle, dedicating hundreds of hours to testing and quality improvements.

“IronCAD 2024 boasts a major step forward in productivity, flexibility, and versatility in mechanical CAD design,” said Cary O’Connor, Vice President of Marketing at IronCAD. “These targeted new features are specifically added to enhance usability and productivity for users in mechanical machinery manufacturing and design, metal fabrication design, assembly layout/design, modular design, packaging design, and even furniture design markets. IronCAD’s unique design process enables wide usage across these markets and offers users powerful tools for innovation and parametric design, making them more competitive in bespoke design creation.”

IronCAD 2024 is now available to revolutionize the design landscape, empowering users with an unmatched blend of functionality, efficiency, and innovation.

ModuleWorks 2023.12 Release Now Available

19 December 2023

ModuleWorks announces the 2023.12 release of its software components for digital manufacturing. This latest release of the ModuleWorks SDK contains a range of new automation features for efficient toolpath generation. It also comes with the new MDES compliant libraries for system interoperability.

MDESLib – Equipment

Manufacturing companies use different hardware and software systems that need to exchange data with each other at different stages in the production chain. Since these systems are developed by different suppliers and have different data file formats, there are limits on the information that can be exchanged between these systems.

ModuleWorks 2023.12 comes with MDESLib – Equipment, a ready-to-go software library that enables users to efficiently exchange digital representations of manufacturing equipment between different systems using the MDES data specification.

MDESLib – Equipment gives users access to an open and growing ecosystem of hardware & software providers who use the MDES specification. It eliminates the need to build customized data bridges to help companies reduce development and maintenance costs.

Turn-Milling

Radial Cuts

A new cutting pattern for radial cuts improves the efficiency of turn-milling, especially when the diameter is larger than the axial length or when grooves need to be cut.

With the new pattern, the tool ramps down towards the center axis rather than cutting with the side of the tool. This increases machining efficiency by removing the maximum amount of material in the minimum time.

Area Roughing

User-Defined Clearance Surface

In many machining scenarios it is difficult to safely approach, retract and link a toolpath for complex parts.

A new option for linking the toolpath over a user-defined surface improves machining safety and also allows users to define the clearance surface using geometrical primitives such as planes, cylinders and spheres. As a result, users now have more control over the non-cutting moves for generating safe, collision-free toolpaths during engagement, retraction and linking on complex parts.

3-Axis Machining

Improved Stock-Aware Linking

ModuleWorks 2023.12 significantly improves linking safety through enhanced stock awareness. In addition to checking the roughing links against the slices and the part, the software now checks roughing links against the in-process stock/workpiece to generate more reliable linking motions that avoid collisions in rapid links and plunges.

Optimized Cutting Angle

The cutting angle for floor finishing is usually defined by the user. However, when there are multiple faces or containments such as steep, shallow or rest regions, a user-defined cutting angle may not produce the best finishing results.

A new algorithm in ModuleWorks 2023.12 automatically detects the cutting angle based on the longest edge of the face or containment zone. This reduces the overall machining time by optimizing the cutting pattern while improving the material removal rate and the surface finish.

Smoothing Control for Offset Roughing

Toolpaths generated for complex parts with detailed features on the boundaries are often wavy due to offset generation. This wavy toolpath can cause unwanted decelerations and accelerations, resulting in long machining times.

A new option for the roughing cycle smooths out the inner offsets/contours, ensuring the last slice retains the shape of the periphery. The smooth toolpath reduces the fluctuating motions to ensure constant, high-speed roughing and faster overall machining.

ModuleWorks 2023.12 is available for download from the **ModuleWorks website**.

New LOGIA functionality strengthens the goods reception

20 December 2023

The initial point of contact for all goods, be it from suppliers or customer returns, is the goods reception - a pivotal stage influencing the quality and efficiency of subsequent warehouse processes.

The new goods reception is a combination of a redesign of the old functionality and lots of new functionality that together allow for a comprehensive, yet efficient goods reception. All wrapped up in the familiar LOGIA user interface, providing operators with a clear overview and focused attention on key elements of the process.

Complete overview of all product data

Upon receiving goods in the warehouse, the operator scans or inputs the item number/purchase order number, triggering the display of comprehensive order information on the screen. All details about each item are consolidated on a single screen, and missing data are outlined in red frames for easy identification and completion. This encompasses a spectrum of data, ranging from basic master data to master strategy, packaging hierarchy, operational details, and value added services (VAS).

Value-added services are seamlessly integrated into the goods reception process, allowing for simultaneous execution. This includes spot checks, quality control, and more, ensuring tasks such as container cleanliness checks, inspection of packaging breakage, and review of specific product types are efficiently conducted.

Upon examining the item and inputting any required data, the operator gains a comprehensive inventory overview. They can then select the preferred storage areas to distribute the inventory to. LOGIA provides recommendations for optimal storage locations and visually highlights any missing replenishments against registered orders.

Efficient multi-reception

The goods reception process for clean pallets is optimized. The operator identifies the initial pallet and then increases the pallet count until the correct number is displayed on the screen. This simplified approach reduces repetitive tasks and allows the handling of goods reception for the same item type in a single process.

Improvements have been implemented for mixed pallet receiving, facilitating the simultaneous receipt of goods across multiple lines. This improvement contributes to a more streamlined workflow, enhancing overall efficiency. Additionally, the optimization has accelerated the receiving of returned goods. LOGIA enables quick repositioning of items to their designated locations, ensuring that returns can get out of the warehouse quickly.

The first customers to benefit from the new LOGIA goods reception are Besko, ILVA, Arla in Denmark, and Helse Stavanger Hospital in Norway.

Oracle Announces the General Availability of Oracle Database@Azure

13 December 2023

The first Oracle Database@Azure service is now generally available in the Microsoft Azure East US region. Oracle will operate and manage Oracle Exadata Database Service, the first of several planned Oracle database services to run on Oracle Cloud Infrastructure (OCI) in Azure datacenters. Oracle Exadata Database Service dramatically simplifies cloud migration of mission critical workloads. The new Oracle Database@Azure service delivers all the performance, scale, and workload availability advantages of the Oracle Database including Real Application Clusters and built-in security, alongside best-in-class Azure services, such as the Azure OpenAI Service for generative AI applications.

“Exadata is the most effective platform to run the Oracle Database and this service provides Microsoft Azure users with the best of all possible worlds,” said Carl Olofson, research vice president, Data Management Software, IDC. “Clearly, Oracle and Azure have embraced a multicloud strategy for the ultimate benefit of their mutual customers.”

To meet strong customer demand across the globe, Oracle Database@Azure will be generally available in additional regions in 2024, including Germany Central, Australia East, France Central, Canada Central, Brazil South, Japan East, UK South, Central US, and South Central US. Each deployment is planned to run across two Azure availability zones, enabling customers to configure high availability across zones. With this offering, customers can benefit from:

- Flexible options to move their Oracle databases to the cloud;
- The highest level of Oracle database performance, scale, and availability, as well as feature and pricing parity with OCI public list prices;
- The simplicity, security, and latency of a single operating environment (datacenter) within Azure;
- Streamlined migration to the cloud, where it is easier to modernize IT environments and take advantage of Azure’s infrastructure, tooling, and services;
- Compatibility with proven migration tools like Oracle Zero Downtime Migration;
- Consistency with on-premises deployments of Oracle Database and Oracle Exadata, reducing the need for rearchitecture;
- The ability to build new cloud-native applications using OCI and Azure technologies, including Azure OpenAI Service;
- Unified customer support from Oracle and Microsoft;
- Simplified purchasing via the Azure Marketplace, and ability to leverage Oracle and Microsoft licenses and commitments/discount programs;
- The assurance of an architecture that is tested and supported by two of the most trusted names in the cloud.

“Ninety-eight percent of the Fortune 100 run Oracle Database and leading organizations in every industry have relied on Oracle Exadata and RAC technology to build mission critical applications on-premises. Most of these workloads have not yet moved to the cloud,” said Karan Batta, senior vice president, Oracle Cloud Infrastructure. “Oracle and Microsoft are making it simpler for customers to accelerate their data center exits and migrate their on-premises Oracle estate to the cloud. Together with Microsoft, we’re eliminating some of the biggest challenges our customers face using best-of-breed technologies and adopting multicloud architectures.”

“We’ve received tremendous interest in Oracle Database@Azure since its announcement,” said Erin Chapple, corporate vice president, Azure Core Product and Design, Microsoft. “Oracle Database@Azure streamlines the migration of Oracle workloads to Azure, so that customers across industries can combine the best of Oracle with the breadth of Microsoft cloud services like Azure AI and our application platform and developer services, to empower business innovation.”

SoftInWay Elevates System Simulation Capabilities and Customer Support with Latest Release

12 December 2023

SoftInWay, a leading solutions provider of turbomachinery, energy and propulsion technology, proudly announces the latest release of AxSTREAM System Simulation. This release signifies a substantial leap in system design capabilities, with a focus on advanced thermal analysis and innovative features tailored to meet evolving industry demands.

The new AxSTREAM System Simulation version introduces an array of features that enhance the user experience, including a multitude of thermal and fluid components to address heat transfer and hydraulic problems in rotating and stationary elements. It also offers multi-run capabilities for parametric studies and optimizations, as well as component customization. This includes specialized considerations for internal combustion engines, electrical power equipment, and various electrochemical elements. Notably, SoftInWay has also devoted attention to refining combustion chamber calculations within gas turbine and rocket engines.

Another important advancement in this release includes the extension of transient calculation capabilities to provide insights into dynamic system behavior under varying conditions. This expansion is particularly noteworthy for applications such as rocket engines, small modular reactors (SMRs), energy storage systems, and cooled gas turbines.

These updates demonstrate SoftInWay’s continued commitment to addressing the diverse needs of the engineering community, showcasing a holistic approach to system modeling and design.

This release also marks the debut of Wikibot, representing the first iteration of AI support from SoftInWay as a means to enhance and complement our renowned support team. Functioning as a chatbot, Wikibot utilizes advanced AI technology to deliver up-to-date information in a

prompt and conversational format. Initially available for System Simulation, Wikibot will progressively extend its support across the entire SoftInWay platform in subsequent releases.

SoftInWay's CEO, Leonid Moroz, expressed his excitement about the release, stating, "AxSTREAM System Simulation reflects our commitment to providing engineers with a powerful and flexible tool for coupled 0D-1D system design and modeling. The incorporation of advanced thermal analysis, multi-run calculations, and the introduction of Wikibot exemplify our dedication to driving innovation in the engineering landscape."

As SoftInWay continues to evolve its offerings, this latest release stands as a testament to the company's commitment to staying at the forefront of engineering technology, meeting the dynamic needs of the industry.

STREAMLINE SOLUTIONS LAUNCHES ELEMENTS VERSION 4.1.1

18 December 2023

We are thrilled to announce the release of ELEMENTS version 4.1.1, an open-source CFD software suite for vehicle design applications distributed by Streamline Solutions LLC — a joint venture between ENGYS and Auto Research Center. This release also introduces updated versions of the add-on modules ELEMENTS-Adjoint and ELEMENTS-Coupled.

ELEMENTS 4.1.1 is focused on bug fixes and code refinements to address known issues found in the previous release 4.1.0. For more information, existing users should refer to the Release Notes provided with the software.

To access the latest release, please log in to the ENGYS Customer Portal and navigate to the Downloads section to access the latest installation files for both Linux and Windows.