

Contents

CIMdata News.....	4
Aerospace & Defense PLM Action Group to Sponsor a Webinar and Panel Discussion on a Common Language for Aerospace.....	4
Announcing PLM Road Map & PDT North America 2025.....	5
CIMdata to Moderate a Webinar on the Human Impacts of Generative AI on the Product Lifecycle.....	6
Acquisitions.....	7
Accenture Acquires Digital Twin Technology for Banks to Enhance Core Modernization Capabilities.....	7
Accenture Completes Acquisition of AOX.....	8
Ansys and Synopsys Announce Agreement with Keysight Technologies for Sale of Ansys PowerArtist.....	9
Bamboo Rose Acquires Verteego to Launch Retail’s First AI-Fueled Decision Intelligence Platform.....	9
Hexagon to acquire Septentrio, revolutionising positioning in mission-critical navigation and autonomy applications.....	10
Sandvik acquires CAM reseller FASTech.....	11
Company News.....	11
AI Simulation Leader Cosmo Tech appoints André M. Boisvert as Lead Independent Director.....	11
Altair India Collaborates with The Centre of Excellence in Advanced Automotive Research (CAAR) to Drive Innovation.....	12
Ansys and Cognata Enable Robust ADAS/AV Sensor Testing on Microsoft Azure.....	13
Cognizant collaborates with Siemens on solution accelerator for Software-Defined Vehicles.....	14
Cosmo Tech is officially recognized as a Microsoft Solutions Partner with certified software for Manufacturing AI.....	15
Don Cooper Joins Aras as Vice President of Global Alliances.....	15

DXC Technology Names Brad Novak as Chief Information Officer.....	16
Informatica Brings AI-Powered Cloud Native Data Governance to Google Cloud Customers Through Expanded Partnership	16
KATEK Canada Inc. Announces Rebrand to Kontron Canada Systems Inc., Signaling a New Era of Growth.....	17
Nano Dimension Announces CEO Transition.....	17
Nemetschek Group Achieves ISO 27001 Certification Across Organization, Reinforcing Commitment to Data Security and Customer Trust	18
Saipem and AVEVA sign a MoU to develop AI solutions for engineering in the energy and infrastructure sector	19
Siemens launches new program to empower startups with cutting-edge technology	19
Tata Technologies and Telechips join forces to innovate solutions for next-gen software-defined vehicles (SDVs).....	21
Trimble and Qualcomm Deliver Precise Positioning Solutions for Automotive OEMs and Tier 1 Suppliers.....	22
Xometry Appoints Sanjeev Singh Sahni As President Reporting To CEO Randy Altschuler .	23
Event News	24
3D Systems to Attend 27th Annual Needham Growth Conference	24
Ansys to Demonstrate Solutions that Power Next-Generation Mobility Technology at CES 2025	25
Siemens unveils breakthrough innovations in industrial AI and digital twin technology at CES 2025.....	27
Financial News	29
Cadence Announces Fourth Quarter and Fiscal Year 2024 Financial Results Webcast	29
DXC Technology to Report Fiscal 2025 Third Quarter Results on Tuesday, February 4, 2025	30
Invitation: Presentation of Sandvik’s report of the fourth quarter 2024	30
Simulations Plus Reports First Quarter Fiscal 2025 Financial Results	31
Strong TCV in a seasonally challenging Q3 positions TCS for Long-Term growth	32
Implementation Investments	40
CIEBON Chooses Centric PLM to Streamline and Align Teams.....	40
From ERP to WMS: Arctic Import optimizes warehouse management	41
Honda and Renesas Sign Agreement to Develop High-Performance SoC for Software-Defined Vehicles	42

Jollibee Group Selects Qualtrics for New Global Customer Experience Program	43
KION Teams with NVIDIA and Accenture to Optimize Supply Chains with AI-Powered Robots and Digital Twins.....	44
Teway Food Launches Second Phase of Centric PLM Partnership to Drive Further Innovation and Efficiency.....	45
Product News.....	46
ActCAD 2025 New Update 130773 Released, Dt.31 Dec, 2024.....	46
Bamboo Rose Unveils TotalPLM: The Industry’s Most Comprehensive Retail Management Platform, Powered by AI and Creative Collaboration.....	47
BETA CAE Systems announces the release of the v25.1.0 of its software suite.....	49
DXC Technology's AI Impact Helps Customers Across Industries Innovate with AI	54
Hexagon ramps up ADAS software innovation with cloud-native quality test automation solution	55
Introducing Neural Sim: AI-Powered Simulator for Next-Generation ADAS and AD	57
Keysight Expands Novus Portfolio with Compact Automotive Software Defined Vehicle Test Solution	58
Keysight Launches All-In-One Solution for Network Visibility and Security.....	59
Propel Software Launches ‘Product Spotlight’ - Delivering Enriched Product Data Across Salesforce Manufacturing, Sales, and Service Clouds	61
RISE with SAP on IBM Power Virtual Server to Help Accelerate Transformation with SAP S/4HANA Cloud	62
Siemens and Sony deliver breakthrough Immersive Engineering for the industrial metaverse	63
Siemens to deliver photorealism-enhanced digital twin with NVIDIA Omniverse and Teamcenter Digital Reality Viewer	65
Tecsys Announces OrderDynamics® OMS Connector for Shopify to Enhance E-commerce Order Management and Fulfillment.....	66
Zuken Vitech Unveils GENESYS 2024: Accelerating Systems Engineering with Advanced Capabilities.....	67

CIMdata News

Aerospace & Defense PLM Action Group to Sponsor a Webinar and Panel Discussion on a Common Language for Aerospace

6 January 2025

Members of the Aerospace & Defense PLM Action Group (AD PAG) will sponsor a webinar and panel discussion on the creation of a unified language for querying data, which will take place at 11:00 a.m. EST on Wednesday, 28 January 2025. Airbus has been advancing a project to create a unified language for data querying for several years. This language aims to enhance the value of data by offering practical solutions to clarify, federate, and query it with minimal cost and effort, even at scale. The language is built on proven international standards, such as ISO/IEC 81346, developed initially for construction projects.

With the support of this standard's authors, Airbus has developed extensions for other domains (manufacturing, processes, aircraft, and properties). These extensions are being proposed to ISO/IEC individually for formal introduction as new parts of ISO/IEC 81346.

As we all know, a language only becomes common when it is recognized by the key players and used by many people. This webinar is an opportunity to present this project to a community of peers, receive feedback, and invite collaboration to benefit the aerospace industry and beyond.

Attendees will:

- **Discover the Power of Digital Continuity:** Understand how digital continuity and digital threads are essential for collaborative operations and data-driven studies.
- **Unlock the Key Role of a Common Language:** Explore how a unified language bridges human and machine understanding by providing explicit, usable data.
- **Learn About Industry Standards:** See how Airbus, with support from the standard's creators, has adapted and expanded an existing industry standard for organizing common language definitions to tailor it for the aerospace industry.
- **Harness Cutting-Edge Tools:** Learn about Airbus-developed tools powered by machine learning algorithms that automate the tagging of millions of items and relate them in a graphical database, even when the information comes from multiple sources in table or text formats.
- **Experience Proven Results:** Discover how the Airbus solution has been rigorously tested to ensure it is robust, scalable, and user-friendly.

According to James Roche, Director of CIMdata's Aerospace & Defense Practice and the moderator for this event, "The ability to label items in compliance with a standard requires four things: one, a standard for naming items; two, a protocol for attaching a label to an item based on the characteristics of that item; three, a means to extract those characteristics from multiple formats; and four, automation of the process for labeling billions of items with a practical level of effort and in a practical timeframe. Airbus' Thomas Barre has developed solutions for all four

requirements, including AI tools for automated labeling. The potential value to the industry is enormous.”

Anyone involved in product or process development will find the presentation worth attending.

To find out more, visit <https://www.cimdata.com/en/education/educational-webinars/webinar-a-common-language-for-aerospace-a-proposal-for-collaboration-between-a-d-companies>. To register, please visit <https://register.gotowebinar.com/register/392862544940730457>.

Announcing PLM Road Map & PDT North America 2025

9 January 2025

CIMdata and Eurostep are delighted to share the details about the upcoming PLM Road Map & PDT 2025 North America conference, scheduled to take place at the Marriott Hotel in Tysons Corner, Virginia, USA on May 7th and 8th. This premier PLM-focused event, under the theme “PLM’s Integral Role in Digital Transformation From Strategy to Execution: Elevating PLM to an Enterprise Business Solution, the PLM Professional's Road Map to Success?” promises an engaging exploration of the critical enablers of Product Lifecycle Management (PLM) and its digital transformation.

Our agenda will feature a curated blend of reports and case studies from industry experts, focusing on the interests of PLM professionals. Covering technologies, processes, and people, PLM Road Map & PDT 2025 will build on what is possible when PLM is aligned with Digital Transformation and show how to achieve it. The conference will provide an environment to learn, discuss, and collaboratively advance product lifecycle digitalization.

Agenda topics will include the following and more:

- **Digital engineering and Model-Based Systems Engineering (MBSE):** Incorporating strategies and trends into a digital transformation initiative.
- **Digital Twins:** Improving efficiency and reducing costs by creating digital replicas of physical assets to simulate and optimize manufacturing processes.
- **Digital Threads:** The reuse of quality-assured data downstream and upstream, allowing the opportunity to break out of traditional software application silos.
- **Data Governance:** The importance of robust data governance and enterprise data modeling.
- **Executive Sponsorship:** The importance of strong executive-level sponsorship in driving transformation initiatives.
- **Organizational Change Management:** Implementing organizational change management (OCM) from the departmental to the enterprise level.
- **Interoperability, openness, and standards:** Using strategies for achieving interoperability, openness, and leveraging the role of standards.

- **Artificial Intelligence (AI) and Machine Learning (ML):** Leveraging AI and ML to analyze data, predict equipment failures, optimize production schedules, and enhance quality control.
- **Enhanced Customer Experience:** Integrating digital tools to improve customer interactions, from order tracking to personalized product recommendations.
- **Sustainability:** Using digital technologies to reduce waste, improve energy efficiency, and minimize the environmental impact of manufacturing operations.

CIMdata's President & CEO, Peter Bilello, emphasizes the critical importance of PLM's role in digital transformation, noting that "A true digital transformation is not going to take place without a modern enterprise-level Product Lifecycle Management (PLM) approach." He continues, "PLM Road Map & PDT North America 2025 is not just a gathering; it's a convergence of thought leadership, real-world insights, and collaborative exploration. As PLM continues its evolution as a critical enterprise business solution, this event focuses on the strategies, tools, and best practices needed to advance digital transformation and drive product lifecycle digitalization forward."

"A Digital Transformation is or should be an indispensable component of any Business Transformation, and modern PLM is key to such transformation in any organization that touches product data, says Håkan Kårdén, a Strategic Advisor and part of the PDT Europe organizing team since 2004.

"A successful Digital Transformation requires vision as well as execution. While the vision serves as a beacon and is always challenging to nail, the trickiest part, in many ways, is the execution. There are so many options available, and as much as we love it, technology has the drawback of becoming outdated well before real business benefits have been delivered. In the 2025 PLM Road Map and PDT conferences, we are looking to leadership and organizations that have successfully taken on the grand challenge to transform business digitally in a way that adds to the bottom line and corporate value. This includes much more than just the technology, and we are looking to address the bigger picture of what must be included to reach a successful digital transformation— elevation of PLM to an Enterprise Business Solution," ends Håkan Kårdén.

In addition to the May event in North America, CIMdata and Eurostep are pleased to announce PLM Road Map & PDT Europe, which will take place from November 5 to 6 in Paris, France.

For more information and to register, please visit the CIMdata website: <https://www.cimdata.com/en/education/plm-conferences/2025-plm-road-map-pdt-north-america>.

CIMdata to Moderate a Webinar on the Human Impacts of Generative AI on the Product Lifecycle

2 January 2025

CIMdata, Inc., the leading global research, consulting, and education firm specializing in Product Lifecycle Management (PLM) and the Digital Transformation it enables, announces its participation in an upcoming webinar, "The Human Impacts of GenAI on the Product Lifecycle."

The webinar, sponsored by Accenture, is set to take place on Thursday, 23 January, at 11:00 AM EST.

This CIMdata-moderated webinar will educate attendees on how Generative AI (GenAI) will impact their roles in the product lifecycle and the work engineers perform daily across the lifecycle.

Accenture's Matthew Thomas, Global Lead of Digital Engineering Solutions, and Jonathan Tipper, Global Generative AI Lead for Industry X, will join CIMdata's Vice President, Stan Przybylinski, to share what they are already seeing with their clients. They will also consider the following questions:

- How are processes and jobs changing?
- Where is the technology most useful?

The webinar will offer valuable insights into:

- Developing a better understanding of GenAI concepts and technologies.
- The emergence of GenAI applications across the product lifecycle.
- Understanding more about GenAI's impact on the work of engineers.
- How your organization can best deploy these new processes and technologies.

According to CIMdata's Vice President Stan Przybylinski, "Generative AI burst onto the scene and has seen rapid adoption. GenAI is enhancing use cases in some commercial product lifecycle applications, with more to come. The product lifecycle generates lots of data across the digital thread, providing GenAI a huge resource to glean insights and enhance human capabilities. Roles and processes must change to best leverage this powerful new capability."

This exclusive webinar targets a broad audience, including product planners and managers, product portfolio managers, PLM team leaders, PLM team members, PLM users, product managers, IT leadership, solution providers, engineers, engineering leadership, or anyone else who wants to learn about how PLM has progressed.

To learn more and register for this webinar, please

visit: <https://www.cimdata.com/en/events/cimdata-supported-events/event/829-webinar-the-human-aspects-of-genai-on-the-product-lifecycle>.

Acquisitions

Accenture Acquires Digital Twin Technology for Banks to Enhance Core Modernization Capabilities

8 January 2025

Accenture has acquired a digital twin technology platform for banks developed by Percipient, a Singapore-based fintech company with deep experience in banking technology transformation. The acquisition enhances Accenture's existing banking modernization capabilities, helping

financial services clients in Asia Pacific accelerate the reinvention of their core systems, foster innovation and drive growth.

Percipient's platform serves as a digital twin—or virtual duplicate—of banks' legacy and modern systems, integrating and unifying the data from each one into a single-real time hub. This can reduce the challenges that many banks face around core modernizations by simplifying the application of data and enabling faster development of new products and services, all without overhauling existing systems or disrupting operations.

Integrating Percipient's digital twin solution further complements Accenture's capabilities to help banks decouple from legacy systems and embrace cloud and AI-led banking services. Banks that shift to a modern, cloud-enabled digital core can attain up to 60% higher revenue growth rates and a 40% increase in profits, according to recent research from Accenture.

"Banks' core systems are often decades old, with layers of tangled code that are costly to maintain, reduce business flexibility and require highly specialized talent, making the need for transformation urgent," said Masashi Nakano, Accenture's Financial Services lead for Asia Pacific. "Percipient's unique capabilities strengthen our existing core modernization offerings, enabling banks to efficiently unlock new opportunities for growth, launch new products faster, and deepen customer engagement through cloud, data, and AI."

Navin Suri, the founder and CEO of Percipient who joins Accenture together with Percipient's core technology leadership team, said: "We have a shared vision to reinvent how digital transformation is achieved at financial institutions. By combining Percipient's platform with Accenture's core banking and technology capabilities, we can enable banks to more seamlessly transform their legacy systems and gain agility and speed, while lowering the risk associated with such modernization efforts."

Terms of the transaction were not disclosed.

Accenture Completes Acquisition of AOX

7 January 2025

Accenture has completed the acquisition of AOX, a German company specializing in embedded software for carmakers and their suppliers. The acquisition enhances Accenture's capabilities to help automotive clients solve challenges they are facing in their transition to software-defined vehicles.

The acquisition of AOX, previously announced on December 3rd, 2024, bolsters Accenture's software architecture expertise and the ability to execute projects across the entire product lifecycle, cost-efficiently and at scale. The company's expertise in high-performance computing, real-time operating systems and the entire software development process helps Accenture support its clients along the complex Automotive Software value chain.

AOX's clients are major German car manufacturers, large automotive suppliers and companies in other embedded software-heavy sectors such as medical technology. Its team of more than 50 highly skilled professionals is now part of Accenture's Industry X engineering team.

The terms of the agreement have not been disclosed.

Ansys and Synopsys Announce Agreement with Keysight Technologies for Sale of Ansys PowerArtist

6 January 2025

Ansys and Synopsys announced that Ansys has entered into a definitive agreement for the sale of its PowerArtist™ business to Keysight Technologies, Inc., a global leader in design and simulation software for semiconductors, electronics and high-performance systems. The transaction is subject to customary closing conditions, including review by regulatory authorities, and the closing of Synopsys' proposed acquisition of Ansys, which is pending regulatory approvals and expected to close in the first half of 2025. Ansys and Synopsys determined that the sale of PowerArtist was necessary to obtain regulatory approval for Synopsys' proposed acquisition of Ansys.

PowerArtist is a comprehensive RTL design-for-power platform used by semiconductor companies for early-stage power analysis, profiling and reduction. Compared to traditional gate-level methodologies, PowerArtist provides rapid turnaround on multimillion instance designs — enabling power-related design decisions at an earlier stage of the design process.

“We are proud of the role PowerArtist has played to advance low power innovation across semiconductor design applications,” said John Lee, vice president and general manager, electronics semiconductor and optics business unit at Ansys. “PowerArtist will continue to flourish as part of Keysight’s portfolio as a leading, independent RTL power product agnostic of vendor-specific design implementation flows.”

Keysight is a major supplier to semiconductor and electronics companies worldwide. Its planned acquisition of the PowerArtist business furthers its strategy to expand its position in the high-performance system design and simulation software sector.

“Our acquisition of the RTL design-for-power solution from Ansys will further expand our portfolio of design engineering software solutions,” said Niels Faché, vice president and general manager, Keysight Design Engineering Software. “We look forward to strengthening our offering in digital systems and welcoming the PowerArtist team to Keysight.”

The sale of PowerArtist is not material to Ansys' financials, and terms of the agreement were not disclosed. The parties are committed to having a seamless transition for the Ansys PowerArtist team, customers and partners. During the interim period until the transaction closes, Ansys will continue to offer Ansys PowerArtist as part of its product line, and is committed to providing the same high-quality service its customers have come to expect.

Bamboo Rose Acquires Verteego to Launch Retail’s First AI-Fueled Decision Intelligence Platform

7 January 2025

Bamboo Rose, a leading provider of retail management solutions for blue-chip customers around the world, is thrilled to announce the acquisition of Verteego, a proven automation

platform focused on supply chain decision intelligence powered by AI. This acquisition marks a transformative step in Bamboo Rose's mission to empower retailers with the tools they need to automate complex decision-making and unlock the full potential of their data.

Elevating Retail Decision-Making with Faster, Smarter, and More Actionable AI-Driven Insights

"Verteego has been recognized in the report as a Representative Vendor. Verteego brings widely sought-after state-of-the-art AI capabilities to the Bamboo Rose Retail Management Platform. This integration enables retail leaders to make better decisions more quickly and with less effort, delivering accurate and actionable recommendations across every operational function, from concept to creation.

Turning the Promise of AI into a Reality for Retail Management

Both teams were immediately and continuously aligned to a future that brought Verteego's AI-fueled Decision Intelligence capabilities to the Bamboo Rose platform. Our AI will act as an intelligent orchestrator, providing detailed assistance and guidance across the end-to-end Bamboo Rose Retail Management Platform. With NRF right around the corner, it's the perfect time to take our AI show on the road," said Rupert Schiessl, Verteego founder and CEO.

"The market is littered with firms who rushed to have any semblance of an AI story in place. This resulted in one-off, vertically-oriented approaches which have proven very difficult to leverage across multiple use cases and large data sets," said Matt Stevens, CEO at Bamboo Rose. "Our hallmark is efficiency at scale. Bamboo Rose's AI-powered Decision Intelligence leverages our customer's data horizontally to unlock unprecedented gains in automation and effectiveness end-to-end, from planning, development, and buying all the way through global trade management."

Learn more at NRF 2025

Bamboo Rose is committed to driving innovation and delivering value to its customers. The acquisition of Verteego is a testament to this commitment and sets the stage for transformative AI-driven retail management in the years ahead. Most importantly, this advancement will help Bamboo Rose customers achieve their business goals faster and with less strain on their already taxed resources.

Discover how Bamboo Rose is redefining retail management with AI at NRF 2025, Jan. 12-14 in NYC. Meet us in Booth 4040 or schedule a private demo to see the future in action.

Stay tuned in the coming days. Bamboo Rose will be dropping more exciting news ahead of NRF 2025.

Hexagon to acquire Septentrio, revolutionising positioning in mission-critical navigation and autonomy applications

7 January 2025

Hexagon announced an agreement to acquire Septentrio NV, a leading OEM provider of Global Navigation Satellite System (GNSS) technologies, to drive innovation and expand the market reach of Resilient Assured Positioning solutions.

Combining Septentrio's pioneering GNSS platform with Hexagon's extensive positioning portfolio, including sensor fusion, anti-jamming, correction services and perception technologies, will enable cutting-edge solutions for diverse markets and applications. This will ensure greater accessibility to high-accuracy and high-performance positioning technology with low SWaP (Size, Weight and Power) characteristics. This will accelerate the adoption of autonomous systems in existing markets and address the needs of emerging high growth segments like robotics, UAVs, autonomy and other mission-critical applications.

Septentrio has built its reputation on innovation and customer focus and will together with Hexagon continue to operate its business model of supplying state of the art GNSS technology and products to its large base of industry leading OEM customers.

"The combination of Hexagon and Septentrio will transform the positioning industry across existing and new markets, setting new standards for the accuracy, resilience and scalability of positioning technologies, necessary to support and accelerate the journey towards full autonomy," said Norbert Hanke, interim President and CEO, Hexagon AB.

Septentrio, headquartered in Leuven, Belgium, has around 150 employees, and is expected to generate revenues of over 50 MEUR in 2024, with strong growth rates and margins in line with the Hexagon Group. Septentrio will be reported within Hexagon's Autonomous Solutions division. Completion of the transaction is subject to regulatory approvals and other customary conditions and is expected to be finalised in the first half of 2025.

Sandvik acquires CAM reseller FASTech

3 January 2025

Sandvik has acquired the assets of FASTech, a US based reseller of Computer Aided Manufacturing (CAM) solutions in the Mastercam network. With this acquisition, Sandvik strengthens its position in the CAM market and further builds on its capabilities to serve customers and expand the customer base. FASTech will be a part of business unit Mastercam and will be reported within business area Sandvik Manufacturing and Machining Solutions.

"This acquisition supports our strategic direction to grow in the digital manufacturing space, strengthens our regional presence, and enhances our ability to help our customers," says Stefan Widing, President and CEO of Sandvik.

FASTech, founded in 1988, is headquartered in Findlay, Ohio, and serves manufacturing customers in the Midwest region of the US. The impact on Sandvik's EBITA margin and earnings per share will be limited. The parties have agreed not to disclose the purchase price.

Company News

AI Simulation Leader Cosmo Tech appoints André M. Boisvert as Lead Independent Director

8 January 2025

Cosmo Tech, a market leader in AI Simulation software for enterprise decision making, today announced the appointment of Andre M. Boisvert as Lead Independent Director to its Board and as a Strategic Advisor. Boisvert is a globally recognized software executive with over 40 years of experience in sales, marketing, and R&D at companies such as IBM, Oracle Corporation, where he served as Senior Vice President of WW Marketing, and SAS Institute Inc., where he held the role of President and Chief Operating Officer.

After serving on boards of publicly traded technology companies, such as VA Linux and Sagent Technologies Inc., where he held the role of both Chairman and CEO, Boisvert co-founded Pentaho, an open-source BI and Analytics company which was ultimately acquired by Hitachi Data Systems for over \$500M. Since then, Boisvert has held board positions for multiple technology startups, many which have been acquired by tech powerhouses like Microsoft, Oracle and SAP.

In addition to Cosmo Tech, Boisvert serves as a Strategic Advisor and Board Director for Pyramid Analytics Inc. (Tel-Aviv), Dcbel Energy Inc. (Montreal), Clario Inc. (Minneapolis), River Logic Inc. (Dallas), and LatticeFlow AI (Zurich).

Commenting on Boisvert's appointment, Cosmo Tech Co-founder and Chair of the Board of Directors, **Hugues de Bantel**, stated: "Andre served on our Board from 2016 to 2019 and we are delighted that he is returning following the majority investment from Insight Partners and former Accenture executives Phillip Hazen and Gerry Coulter."

Of his appointment, Boisvert said: "I am honored to rejoin the Cosmo Tech board and look forward to working with Insight Partners and the world-class management team that co-invested in the recapitalization of the company. Coupled with the founders' continued participation, this is a compelling opportunity poised to succeed."

Altair India Collaborates with The Centre of Excellence in Advanced Automotive Research (CAAR) to Drive Innovation

9 January 2025

Altair, a global leader in computational intelligence, has signed a memorandum of understanding (MoU) with The Centre of Excellence in Advanced Automotive Research (CAAR) to foster innovation and collaboration in the automotive industry. The collaboration will focus on developing solutions that advance e-mobility, autonomous systems, and sustainable vehicles while reducing product development timelines and ensuring India progresses at the forefront of automotive technology.

"Our collaboration with CAAR and IIT Madras is poised to drive innovation in the automotive sector," said Vishwanath Rao, country manager, Altair India. "This MoU underscores Altair's commitment to delivering technologies that enable automotive sustainability, efficiency, and progress."

"Our partnership with Altair marks a significant step in our mission to speed up the process of taking innovative concepts from academic research towards industry-ready technologies," said

Thiru Srinivasan, CEO, CAAR. “This partnership will also help further develop Altair’s software tools for use in the rapid development of high-value automotive products.”

CAAR was established under the guidance and support of the Indian Institute of Technology (IIT), Madras. CAAR provides world-class technologies and facilities to the automotive industry, advises on policy, and develops human capital. With a focus on translational research, CAAR bridges the gap between academic innovation and industrial implementation.

Ansys and Cognata Enable Robust ADAS/AV Sensor Testing on Microsoft Azure

2 January 2025

Ansys announced AVxcelerate Sensors is accessible through Cognata’s Automated Driving Perception Hub. The ADPH platform runs on Microsoft Azure and 4th Generation AMD EPYC™ processors and Radeon™ PRO GPUs. ADPH gives original equipment manufacturers (OEMs) easy access to certified, web-based sensor models from manufacturers, enabling collaborative testing and validation of advanced driver assistance systems (ADAS) and autonomous vehicle (AV) functions using a high-fidelity simulation platform with virtual twin technology.

The ADPH allows OEMs and sensor manufacturers to test and validate certified sensors against diverse industry standards, including those put forth by the National Highway Traffic Safety Administration (NHTSA) and the New Car Assessment Program (NCAP). The platform currently includes Cognata sensor models for thermal cameras, LiDAR, RGB cameras with varying lens distortions, and leverages Deep Neural Network (DNN) technology that enables photorealistic images and simulations.

With the addition of Ansys AVxcelerate Sensors, users have access to physics-based radar models that reproduce EM wave propagation — accounting for material properties within high frequencies — to enhance signal strength and accuracy. The radar simulation provides raw data that can be used to test and improve the algorithms that process radar signal interference, like small changes in frequency caused by moving objects (doppler effect). When connected to a virtual model from a radar supplier, AVxcelerate Sensors produces a virtual twin of the sensor, enabling OEMs to evaluate its performance with enhanced predictive accuracy.

“We are excited to integrate Ansys’ radar simulation technology into the ADPH platform, bringing OEMs and tier-one suppliers an unmatched level of accuracy in sensor validation,” said Danny Atsmon, founder and CEO at Cognata. “Ansys’ ability to simulate complex EM wave interactions enhances our platform’s ability to deliver precise, real-world insights for radar-based ADAS and AV systems. This collaboration significantly advances the industry’s ability to test and refine sensor performance under diverse conditions.”

Cognata’s generative AI transfer technology, enabled by AMD Radeon PRO V710 GPUs, enhances the RGB camera simulation platform by delivering high-fidelity virtual sensors. It accurately captures and replicates the real-world behavior of sensors within the simulation.

“Ansys’ AVxcelerate Sensors platform includes real-time radar capabilities for accurate modeling of radar interactions in complex environments,” said Shane Emswiler, vice president of products at Ansys. “By offering the solution on Cognata’s ADPH platform, we are enabling

customers to design for real-world operations to meet strict regulatory standards. As the industry works toward fully autonomous driving, safety validation is paramount, and the joint effort between Ansys and Cognata streamlines this typically long and complicated process.”

“We’re pleased to collaborate with Ansys and Cognata to enhance automated driving validation and simulation on Microsoft Azure,” said Nidhi Chappell, Vice President, Azure AI Infrastructure at Microsoft. “By integrating Ansys’ advanced radar simulation technology, we’re empowering OEMs and tier-one suppliers with high levels of accuracy in sensor validation. This collaboration underscores our commitment to providing leading-edge cloud infrastructure that supports the development and validation of ADAS and autonomous vehicle technologies.”

Cognizant collaborates with Siemens on solution accelerator for Software-Defined Vehicles

9 January 2025

Cognizant announced a new collaboration with Siemens Digital Industries Software to integrate Siemens’ PAVE360™ into its software-defined vehicle (SDV) solution accelerator. This enhanced accelerator, featuring Siemens’ Simcenter™ Prescan for sensor modeling and scenario-based testing, aims to meet rising customer demands by accelerating the SDV development cycle. It is designed to enable continuous and simulated verification and validation, streamline the development process and reduce the time required to deliver features while managing the increasing software complexity from diverse platforms and components.

As the automotive landscape evolves, clients face significant pressures to innovate amidst increasing customization and hyper-personalization demands. The shift toward continuous verification and validation throughout the vehicle development lifecycle necessitates partnerships that can provide robust, agile solutions.

"We are already in an era where software is the differentiating factor in the automotive industry," said Sidhant Rastogi, President, of Zinnov. "From OEMs and tier 1 suppliers to new-age carmakers, tech service providers and platform providers, an ecosystem-driven approach is becoming central to building the capabilities required for SDVs. By enabling a shift-left approach that addresses safety and security requirements, the Cognizant-Siemens collaboration intends to accelerate product development cycles, a critical advantage for automakers in today's competitive landscape."

The automotive industry faces high demand to accelerate product development and testing with limited resources, manage competitive pressures and handle the complexity of over 100 million lines of code. The Cognizant solution accelerator aims to address these challenges by enabling continuous and simulated verification and validation across vehicle development.

"Cognizant's expertise in scalable, hardware-agnostic software development aligns perfectly with our goals to innovate and meet the increasing demands for customization and hyper-personalization in the automotive industry," said David Fritz, Vice President, Hybrid and Virtual Systems, of Siemens. "This collaboration with Cognizant allows us to respond to customers'

growing demands effectively, leveraging our combined expertise to accelerate product development and testing processes."

"We are thrilled to collaborate with Siemens to drive the future of mobility through our advanced solution accelerators," said Aditya Pathak, Vice President and Americas Head of Auto, Transportation and Logistics, of Cognizant. "Our expertise in developing scalable, hardware-agnostic software solutions for SDVs will help us toward our goal of delivering exceptional vehicle experiences, features and capabilities to meet the evolving needs of the automotive industry and our clients."

Cosmo Tech is officially recognized as a Microsoft Solutions Partner with certified software for Manufacturing AI

21 December 2024

We are excited to announce that Cosmo Tech has been officially recognized as a Microsoft Solutions Partner with certified software for Manufacturing AI.

This certification marks a significant milestone in our commitment to provide top-tier solutions that not only meet critical industry standards and rigorous technical criteria but also validate our capabilities in the Microsoft AI Cloud landscape.

What That Means For Our Customers

As a Solutions Partner with certified software, Cosmo Tech demonstrates:

- **Interoperability with Microsoft Cloud:** our solutions are rigorously tested and validated for seamless integration with the Microsoft Cloud, ensuring that you can utilize our technology effectively and efficiently
- **Industry focused solutions:** our certification underscores our ability to solve key challenges within the Manufacturing industry, aligning with Microsoft Industry Cloud scenarios and integrating powerful Microsoft AI capabilities.
- **Proven customer success:** with a strong track record of helping manufacturing leaders achieve unprecedented level of optimization in financial performance and resilience, while ensuring a net-zero carbon trajectory, Cosmo Tech is dedicated to delivering cutting-edge AI solutions tailored to the Manufacturing sector.

Don Cooper Joins Aras as Vice President of Global Alliances

7 January 2025

Aras, a leader in product lifecycle management (PLM) and digital thread solutions, announced that Don Cooper has joined the company as Vice President of Global Alliances. Don will play a pivotal role in driving the expansion of Aras' partnerships and alliances.

Don brings over 25 years of experience in the product development industry and PLM market, with expertise in navigating direct and indirect channels. His background includes building and nurturing enablement organizations, guiding enterprise software sales teams to deliver outstanding results, and implementing effective sales processes.

“I am extremely excited to be joining Aras and continue my journey helping customers and partners adopt and deploy PLM and realize the value from a digital thread,” said Don Cooper. “Aras is uniquely positioned to deliver innovative solutions that drive long-term value, and I look forward to collaborating with the team to make a lasting impact for our customers.”

“Don’s ability to align strategic business initiatives with GTM execution has made him a trusted leader in the SaaS sales landscape,” said Roque Martin, CEO of Aras. “Don will amplify our Build with Aras initiative by activating our entire Community to unlock greater innovation and expand the capabilities of Aras Innovator.”

DXC Technology Names Brad Novak as Chief Information Officer

2 January 2025

DXC Technology, a leading Fortune 500 global technology services provider, announced the appointment of Brad Novak as Chief Information Officer. Novak joins DXC’s leadership team, with a strong focus on leveraging AI throughout DXC operations. He will report to DXC’s Chief Administrative Officer, James Walker.

In this role, Novak will strategically embed AI across the infrastructure. He will also lead the team to integrate, standardize and consolidate various platforms, tools, and processes to enhance workforce productivity and operational efficiency.

Novak is a senior technologist and brings over 30 years of experience in financial services, spanning application development, infrastructure and service management. He has worked at several global financial services firms, most recently Barclays, where he was the CTO for the Corporate and Investment Bank, leading technology architecture and strategy. Novak has also worked in Private Equity and Venture Capital, assessing investment opportunities and advising portfolio companies on their technology strategies.

Informatica Brings AI-Powered Cloud Native Data Governance to Google Cloud Customers Through Expanded Partnership

9 January 2025

Informatica, a leader in enterprise AI-powered cloud data management, announced an expansion of its partnership with Google Cloud through the availability of its Cloud Data Governance and Catalog (CDGC) on Google Cloud, available as a transactable offering on Google Cloud Marketplace.

Built on the foundation of Informatica’s AI-powered Intelligent Data Management Cloud™ (IDMC), CDGC provides customers with a robust data governance and catalog solution that helps increase data trust, data democratization and data delivery for Google Cloud customers. With CDGC, organizations can more easily govern, classify, define, discover, catalog and measure data across the enterprise.

“AI-driven cataloging and governance capabilities provide a rich metadata foundation that is critical for modern analytics and AI initiatives, including Informatica’s recently-released Gen AI Blueprint for the Vertex AI platform and Gemini models,” said **Rik Tamm-Daniels, Global Vice**

President of Strategic Ecosystems and Technology at Informatica. “We are excited to offer CDGC natively on Google Cloud so Google Cloud customers can classify, secure and democratize their critical data assets and achieve transformative AI and analytics driven outcomes.”

“Governance is an important component of any AI strategy and Informatica now makes it easy for Google Cloud customers to adopt its GDGC governance offering via Google Cloud Marketplace,” said **Ritika Suri, Director of Data and AI Partnerships at Google Cloud.** “As part of the IDMC platform, customers can accelerate AI and analytics initiatives through a unified data management system that features data cataloging and governance capabilities.”

Informatica CDGC is generally available now for Google Cloud and transactable via Google Cloud Marketplace in North American, EMEA and Saudi Arabia markets.

KATEK Canada Inc. Announces Rebrand to Kontron Canada Systems Inc., Signaling a New Era of Growth

9 January 2025

KATEK Canada Inc., a leading provider of innovative technology solutions, is pleased to announce its rebranding under the new name, Kontron Canada Systems Inc., effective immediately. This name change reflects the company's commitment to aligning more closely with its parent company, Kontron AG, and expanding its presence within the advanced electronics manufacturing services sector.

This milestone marks a strategic step toward unifying the organization’s identity with the global Kontron brand, recognized as a global leader in IoT/embedded computing technology. This change will enhance the company's ability to deliver end-to-end, cutting-edge solutions and services to its customers across various industries.

The rebrand represents Kontron’s dedication to being the leader in the electronics manufacturing industry and the company’s commitment to providing exceptional service. Customers and partners can continue to rely on and expect the same high level of service and expertise that they have always received from KATEK Canada Inc.

Nano Dimension Announces CEO Transition

26 December 2024

Nano Dimension Ltd. (“Nano Dimension” or the “Company”), a supplier of Digital Manufacturing solutions, announced that the board of directors (the “Board”) has appointed Mr. Julien Lederman as Interim Chief Executive Officer (“CEO”) of the Company. Mr. Yoav Stern’s role as CEO has been terminated, effective immediately. The Board is conducting a comprehensive search for a permanent CEO.

Mr. Julien Lederman, who has served as Vice President of Corporate Development since March 2021 will serve as Interim CEO. Previously, Mr. Lederman was employed at Amazon.com, Inc., The Goldman Sachs Group, Inc., Lehman Brothers Holdings, Inc., and the World Economic Forum. He earned an MBA from INSEAD in France in 2013 and a BA from Colgate University in New York in 2008.

Mr. Yoav Stern had been serving as CEO and a member of the Board since January 2020. As previously announced, at the Company's 2024 annual general meeting of shareholders, dated December 6, 2024 (the "AGM"), Mr. Stern was not re-elected as a director.

Mr. Ofir Baharav, Chairman of the Board, commented: "The Board is pleased and confident in our appointment of Julien Lederman as Interim Chief Executive Officer. The Board fully supports Julien during this transition period while we conduct a broad search for a permanent Chief Executive Officer."

Nemetschek Group Achieves ISO 27001 Certification Across Organization, Reinforcing Commitment to Data Security and Customer Trust

9 January 2025

The Nemetschek Group, a leading global provider of software solutions for the AEC/O (Architecture, Engineering, Construction, and Operation) and media industries, announced that it has successfully attained the ISO 27001 certification across the Group. The important certification covers the development, implementation, and maintenance of software solutions across the Architecture, Engineering, Construction, and Operations (AEC/O) lifecycle as well as for the Media & Entertainment industry. It underscores Nemetschek's dedication to maintaining the highest standards of information security and ensuring the protection of its data.

ISO 27001 is an internationally recognized standard for Information Security Management Systems (ISMS). Achieving this certification signifies that Nemetschek has implemented Information Security company-wide in a robust manner to manage and protect sensitive information, reduce risks of cyber threats, and ensure compliance with data protection regulations globally. The ISO certification covers all brands in the Nemetschek Group, except for the recently acquired company GoCanvas.

Key Highlights of Nemetschek's ISO 27001 Certification:

- **Comprehensive Coverage Across the Group:** Nemetschek Group has extended the ISO 27001 certification to all its brands and subsidiaries, reinforcing the unified approach to information security and risk management throughout its global operations.
- **Commitment to Client Trust:** By adhering to the ISO 27001 standard, Nemetschek ensures that its clients' sensitive information, intellectual property, and personal identifiable information are protected by a rigorous framework designed to prevent data breaches and unauthorized access.
- **Continuous Improvement:** The certification process included a thorough audit of Nemetschek's internal organization. It demonstrates the company's dedication to continuously improving its information security management systems to stay ahead of emerging threats and vulnerabilities.

"We are extremely proud to have achieved ISO 27001 certification across the Nemetschek Group", commented Louise Öfverström, Chief Financial Officer at the Nemetschek Group. "This milestone underscores our commitment to not only providing innovative software solutions but

also safeguarding the critical information that are entrusted to us. The certification assures our clients that we take their security seriously and meet the highest international standards."

This achievement is another important milestone in the company's strategy of fostering transparency, trust, and long-term partnerships with its stakeholders.

Saipem and AVEVA sign a MoU to develop AI solutions for engineering in the energy and infrastructure sector

23 December 2024

Saipem, a global leader in engineering services for the energy and infrastructure sectors, and AVEVA have signed a Memorandum of Understanding (MoU) to co-develop enhanced solutions based on artificial intelligence (AI) and machine learning to support the engineering design and construction of energy and infrastructure facilities.

The collaboration between Saipem and AVEVA will focus on three areas of interest: optimisation of both 3D modelling and project planning, streamlining of material procurement and project supply chain.

By implementing AI-driven solutions, Saipem aims to enhance the efficiency and effectiveness of projects throughout the entire lifecycle, from estimation to plant design and construction. AVEVA will support Saipem in creating software that leverage generative and predictive design to develop multiple simulation scenarios to optimise plant design in 1D, 2D and 3D. The goal is to reduce the time required to complete project tasks, foster better communication among stakeholders, improve consistency, and allow people to concentrate on value-added and strategic activities.

Paolo Albini, Chief Supply Chain, Digital and IT Officer at Saipem, commented: "Saipem's goal is to define a new way of delivering projects by leveraging on our deep experience and the potential offered by Artificial Intelligence applications to develop optimised, fast and innovative engineering solutions that enable our clients to reduce the time-to-market and support them in the path towards Net Zero".

"Our ambition is to leverage AVEVA and Saipem's unique expertise, to jointly develop cutting-edge AI-driven engineering solutions. The new solutions will enhance the performance, efficiency and delivery of world-class engineering projects, ensuring that Saipem's carbon footprint is minimised at each step" comments Caspar Herzberg, CEO, AVEVA.

Siemens launches new program to empower startups with cutting-edge technology

7 January 2025

Siemens launched Siemens for Startups, a new program to empower early-stage engineering and manufacturing startups. Announced at CES 2025 in Las Vegas, the program will enable new innovative companies to accelerate innovation, streamline development processes and scale faster by providing venture-related services, while reducing the cost of access to Siemens software and hardware.

"Startups are essential to making our customers more competitive, sustainable and resilient. By collaborating with startups, Siemens helps bring breakthrough ideas to industries faster, empowering customers to address global challenges more effectively with cutting-edge technologies, tools and solutions," said Peter Koerte, Member of the Managing Board of Siemens AG, Chief Technology Officer and Chief Strategy Officer.

The Siemens for Startups program has three pillars:

Connect

The new program will help onboard startup companies to the Siemens Xcelerator marketplace, thus providing access to a global go-to-market channel and the Siemens Xcelerator ecosystem.

Collaborate

As an early customer and co-developer, Siemens will collaborate with leading startups through venture clienting. This approach will give Siemens access to cutting-edge capabilities and services and provide startups with the early revenue needed for growth.

Empower

Solutions from the "Siemens for Startups" program will provide startups – whether focused on product development or on software development – with packaged access to essential software tools from Siemens Xcelerator.

Partnership with AWS

As part of its ongoing strategic collaboration with AWS, Siemens will link the "Siemens for Startups" program with AWS's Startup program to accelerate innovation, streamline development processes and enable startups to scale faster. The collaboration underscores both companies' commitment to fostering entrepreneurship and driving digital transformation in the industrial sector.

"Collaborating with Siemens allows us to extend the capabilities of our AWS Startup program to a new generation of innovators in the engineering and manufacturing space," said Jon Jones, Vice President and Global Head Startups at AWS. "By providing startups with advanced software, generative AI and cloud services, AWS and Siemens are enabling them to bring their ideas to life more quickly and boost entire industries with cutting-edge solutions."

Integrating Siemens' comprehensive suite of industrial software – including design, simulation and manufacturing solutions from the Siemens Xcelerator portfolio – into AWS's scalable cloud infrastructure and startup program will enable startups to access the tools and resources they need to seize market opportunities. For technical and go-to-market support, qualifying startups will receive AWS credits, business development resources and access to the AWS Activate program.

Showcasing startups

At CES 2025, Siemens highlighted the following startup companies that are collaborating with Siemens' teams and technology to scale operations.

- Arkisys is building one of the first business platforms in space for new technology hosting, satellite integration, assembly and resupply. The Arkisys Port supports scalable rapid prototyping, new payload and technology testing, the assembly and integration of new free-flying space platforms and destinations for orbital transfer vehicles, and on-orbit assembly and manufacturing.
- Dirac, a Siemens Technology Partner, is a leader in automated manufacturing workflow software, revolutionizing American manufacturing with innovative solutions that bridge the gap between design and production. Its flagship product, BuildOS, is the first automated work instruction platform, using physics-based simulations and manufacturing best practices to automatically generate animated, interactive, 3D assembly-ready work instructions directly from CAD models. BuildOS enables companies to seamlessly transition from design to production while retaining critical tacit knowledge, aggregating and contextualizing it within the design process. As a Technology Partner working alongside Siemens, Dirac has been able to drive enormous value across the Automotive and Aerospace & Defense industries.
- EthonAI is developing the EthonAI Manufacturing Analytics System (MAS), a powerful software suite designed to achieve operational excellence at scale. The MAS creates a common context across disparate factory data sources, analyzes data using the latest AI techniques, and makes the results accessible through a suite of interoperating applications. The applications within the MAS are specifically tailored to improve operational KPIs such as quality, throughput, uptime, costs and sustainability. Customers using EthonAI have achieved waste reductions of over 50 percent.
- Haddy is revolutionizing furniture manufacturing with advanced 3D printing and robotics, producing high-quality, sustainable products at a low cost and on a commercial scale. Haddy is building a global network of local micro-factories equipped with hybrid Flexbot systems from CEAD and recycling units that shorten the supply chain and help the environment by reducing waste.
- Instrumental technology automates failure discovery and root cause analysis in electronics manufacturing — accelerating new product development and improving yield in production. Easy-to-use workflows enable engineers to do failure analysis 100x faster.
- Tended uses geospatial data and wearable technology to transform the safety of high-risk work environments. The solution provides organizations with enhanced visibility over onsite operations to quickly identify and correct unsafe actions. A high degree of accuracy helps to ensure people, plant and equipment are in the right place at the right time, helping to prevent near misses and accidents.

Tata Technologies and Telechips join forces to innovate solutions for next-gen software-defined vehicles (SDVs)

7 January 2025

Tata Technologies, a global product engineering and digital services company, and Telechips, a comprehensive automotive semiconductor solutions company, today jointly announced their strategic partnership at CES 2025 to innovate vehicle software solutions for next-gen software-defined vehicles (SDVs). Together, they aim to develop innovative solutions for ADAS platforms, automotive cockpit domain controllers, and central & zonal gateway controllers that will accelerate the realization of software-defined vehicles (SDVs), a cornerstone of connected, autonomous, and electric mobility.

As the automotive industry rapidly transitions toward connected, autonomous, and electric vehicles, SDVs are at the heart of this transformation. However, the seamless integration of software and hardware remains a significant challenge for automakers. The partnership will leverage Tata Technologies' deep expertise in automotive software engineering and integration of next-gen technologies for turnkey SDV development, and Telechips semiconductor technologies, including SoCs (System on Chips), AI Vision ADAS Processors, and Network Gateway Processors. Together, the companies are poised to innovate solutions that address key challenges faced by automotive OEMs in the era of SDVs, such as software-hardware integration, reduced time-to-market, and enhancing the safety and connectivity of vehicles.

"We are delighted to collaborate with Telechips, combining their advanced semiconductor technology with our deep domain knowledge and expertise in turnkey SDV development to help our customers develop competitive software-defined vehicles. This partnership exemplifies our commitment to engineering a better world by enabling OEMs to deliver intelligent, connected, and sustainable vehicles that redefine safety, functionality, and user experiences while working towards a software-defined future," said **Warren Harris, CEO and Managing Director of Tata Technologies**, expressing this enthusiasm on the partnership.

Speaking on the partnership, **Jang-Kyu Lee, CEO of Telechips**, echoed this optimism: "Our partnership with Tata Technologies highlights our commitment to transforming the automotive semiconductor landscape. By combining our advanced semiconductor solutions with their expertise in vehicle software and hardware integration, we are paving the way for safer, smarter, and more connected mobility solutions, enabling OEMs to lead in the SDV era."

The partnership addresses critical industry needs such as real-time updates, seamless connectivity, and enhanced safety. By leveraging AI and advanced SoC technologies, it enables OEMs to stay competitive in a rapidly evolving market, aligning with global sustainability goals. The collaboration will focus on co-developing a scalable software framework for ADAS and autonomous vehicle platforms, leveraging Artificial Intelligence to enhance situational awareness and decision-making capabilities. Additionally, the integration of Telechips' advanced SoCs will enable faster, more efficient vehicle communications, aligning with the global push toward greener and more sustainable transportation solutions.

Trimble and Qualcomm Deliver Precise Positioning Solutions for Automotive OEMs and Tier 1 Suppliers

6 January 2025

Trimble® announced it has extended its technology collaboration with Qualcomm Technologies, Inc. to deliver precise positioning solutions for automated vehicles ranging from automobiles to heavy trucking. Trimble's precise positioning engine, Trimble ProPoint® Go™, will be integrated with the Snapdragon® Auto 5G Modem-RF Gen 2, a key platform of the Snapdragon Digital Chassis™ solution, to provide positioning accuracy within 10 centimeters. Vehicles with the joint solution are expected to be on the roads by 2028.

This new integration is capable of supporting Level 2+ and potentially higher levels of automated driving (AD) applications with high-accuracy positioning for advanced driver assistance systems (ADAS), and cellular vehicle-to-everything (C-V2X) for automakers and Tier-1 suppliers. With the Snapdragon Auto 5G Modem-RF Gen 2, customers can extend into Level 3 autonomous driving applications, and C-V2X solutions, with the same chipset.

"Continued success between Qualcomm Technologies and Trimble is a testament to our joint innovation and delivery of solutions that help make higher levels of ADAS and C-V2X a reality for the automotive and telecom industries," said Olivier Casabianca, vice president, positioning services at Trimble. "Together we are ensuring the highest standards of accuracy and are empowering our end customers to operate with confidence. While fully automated vehicles and trucking are still in the development stages, we are making great strides in providing technology to meet the requirements of greater levels of autonomy."

The ProPoint Go positioning engine is designed to provide position and orientation data from the fusion of GNSS signals, including globally accessible high-accuracy Trimble correction services and measurement data from a variety of sensors. ProPoint Go provides precise and reliable centimeter-level position, velocity and time information based on multi-frequency GNSS signals and ASIL-C certified Trimble RTX® correction data. This positioning ecosystem helps companies advance their automated driving capabilities with safety at the forefront.

The Snapdragon Auto 5G Modem-RF Gen 2 automotive connectivity platform features integrated C-V2X direct communications, non-terrestrial networks (NTN), high-precision multi-frequency global navigation satellite system (HP-GNSS) and RF Front-End (RFFE) functionalities to support major operators across key spectrum bands globally.

"We are committed to delivering driver assistance technologies with a focus on achieving automated driving and creating a system that accurately responds to its surroundings," said Jeff Arnold, vice president, product management at Qualcomm Technologies, Inc. "Our continued collaboration with Trimble allows us to add more reliable and accurate positioning to our technology stack that enhances our commitment to maintaining the highest levels of safety and system reliability."

Xometry Appoints Sanjeev Singh Sahni As President Reporting To CEO Randy Altschuler

8 January 2025

Xometry, the global AI-powered marketplace connecting enterprise buyers with suppliers of manufacturing services, announced the appointment of Sanjeev Singh Sahni as President,

reporting to CEO Randy Altschuler. The former Vice President of B2B E-Commerce and Head of B2B & B2C Sales Of Wayfair, Sahni brings a significant track record in Operations, Product and Technology development, Supply Chain Management, Customer Experience and a wealth of International experience. In this newly created role, Sahni will oversee all aspects of Xometry's Operations, Product, Technology and People teams worldwide to continue driving global growth, scale and operating efficiencies.

"Sanjeev is a highly regarded executive whose background in helping B2B and B2C tech brands scale will further accelerate our growth initiatives across our global marketplace and suite of supplier services," said Randy Altschuler, CEO of Xometry. "Throughout his career, Sanjeev has demonstrated a unique ability to integrate technology, processes and people to deliver a unified experience across all customer touchpoints. He has a strong track record deploying AI, machine learning and automation to accelerate product development and drive profitable growth."

"I've been following Xometry's ascent for some time now, and I have admired the company's growth as it serves a critical area of the global economy," Sahni said. "Xometry's growing technology portfolio, which includes its global Marketplace, Supplier Services and suite of software, demonstrates the power of AI to solve the critical supply chain challenges facing customers and suppliers. I look forward to helping Xometry accelerate the introduction of new products that further deliver unmatched value to customers and partners."

At Wayfair, Sahni held numerous global roles, including Head of Customer Experience, and, most recently, as the Vice President of B2B E-Commerce, Wayfair's multi-billion dollar B2B business, and Head of B2B & B2C Sales. He was recruited to the company to establish its international supply chain capabilities and served as the Head of CastleGate Forwarding, Wayfair's digital freight forwarding arm. Prior to Wayfair, Sahni served as an Associate Partner at McKinsey & Company, where he helped lead the firm's global Transportation and Logistics practice advising Fortune 500 companies, governmental agencies and industry associations.

Xometry's two-sided AI-powered marketplace plays a vital role in the rapid digital transformation of the manufacturing industry. Xometry's proprietary technology shortens development cycles, drives efficiencies within corporate environments and helps companies create resilient supply chains. Xometry's product portfolio includes its industry leading digital marketplace; popular Thomasnet® industrial sourcing platform, and cloud-based tools and centralized project management software for large, mission-critical projects.

Event News

3D Systems to Attend 27th Annual Needham Growth Conference

6 January 2025

3D Systems announced that management will participate in the 27th Annual Needham Growth Conference on January 14, 2025.

President and CEO, Dr. Jeffrey Graves will participate in a fireside chat at 11:45 a.m. Eastern Standard Time and will participate in individual meetings alongside members of the company's leadership team throughout the day.

A live webcast of the conference presentation will be available on [3D Systems' Investor Relations page](#). The link will be live just prior to the start of the event and will be available for on-demand viewing approximately 24 hours after the event is complete. The webcast recording will be available for a limited time following the conference.

Ansys to Demonstrate Solutions that Power Next-Generation Mobility Technology at CES 2025

3 January 2025

Ansys is returning to CES 2025 to showcase digital engineering solutions that will accelerate the next generation of safer, smarter, and more efficient vehicles. With recent advancements to its comprehensive product suite, Ansys directly addresses the industry's most urgent challenges. By enabling faster innovation and improved productivity, Ansys simulation delivers significant time and cost reductions associated with physical prototyping.

Commitments to improved safety, demand for new features and functionality, and pressure to shorten design cycles despite increasingly complex engineering challenges have made traditional approaches to vehicle development ineffective. Ansys solutions help customers stay at the forefront of innovation by connecting and automating workflows, shortening design cycles, and reducing development costs through reliable design validation.

"Thanks to Ansys tools, we have realized a 25% reduction in product development cycle, 15% to 20% savings on engineering development costs, and the 15% to 20% improvement in product performance — to the satisfaction of our customers," said Luciano Saracino, head of the Mechanics and Optics Center of Expertise, Marelli Electronic Systems.

Robust optimization accelerates development

Automotive companies face challenges in design generation due to growing demands for shorter cycles and more intricate designs. Ansys solutions help address this, significantly speeding development — without compromising on accuracy — by increasing design exploration and optimization opportunities. Ansys' open ecosystem also supports connected workflows that are primed for cloud computing, AI-enhancement, and digital twins. Booth features will include:

- Ansys SimAI™, a cloud-enabled generative AI platform that delivers easy, reliable performance prediction of physics behavior with lightning speed by leveraging NVIDIA GPUs. SimAI can be trained with existing simulation results for applications including fluid dynamics, thermal and electromagnetic performance, structural deformation, and more
- The all-in-one Ansys ConceptEV® design and simulation platform that accelerates EV powertrain system development and enables cross-functional teams to meet consumer and market requirements

- Ansys Discovery™ 3D product simulation software and the NVIDIA Omniverse Blueprint for real-time computer-aided engineering digital twins for visualizing and accelerating large-scale computational fluid dynamics workflows

Connected, software-defined vehicles demand simulation

Increasingly software-defined vehicles (SDV) rely on many systems, and systems of systems, working seamlessly together, creating valuable functionality for consumers and daunting complexity for engineers. Ansys solutions deliver robust virtual design and validation of new features, while offering safe, secure, and reliable performance without expensive hardware testing.

The Ansys booth will highlight these solutions with real-world examples and demonstrations, including:

- Ansys Perceive EM™ radio frequency channel and radar signature simulation software integrated with an NVIDIA-accelerated shooting and bouncing ray solver for rapid computation of electromagnetics
- A collaboration between Ansys, Cognata, and Microsoft enabling manufacturers and suppliers to work together on a web-based platform to test and validate sensor designs against certified sensor models

Solutions for passive, active, and functional safety

Ansys solutions improve vehicle safety through virtual prototyping and safety analysis. This includes crash safety to assure the well-being of the occupant if a crash occurs, active safety to help drivers avoid crashes, and functional safety to confirm software and hardware work as intended. Ansys technology can also help customers meet regulatory compliance through integrated workflows.

Examples of recent advancements and demonstrations of Ansys simulation for vehicle safety include:

- A continued collaboration with Sony Semiconductor Solutions that significantly speeds time-to-compliance for ADAS/AVs through a more streamlined, high-fidelity perception sensor validation workflow for improved active safety
- An advanced, integrated toolchain in collaboration with Kontrol, Microsoft, and TÜV SÜD to streamline safety, certification, and virtual homologation
- Ansys digital twin technology for software and system virtual validation, featuring a video with Marelli Electronics Systems
- Crash safety analysis using Ansys LS-DYNA® structural simulation software and virtual human body models

“Every day, Ansys solutions are enabling customers to push the boundaries of comfort, safety, and performance of next-generation mobility,” said Walt Hearn, senior vice president of worldwide sales and customer excellence at Ansys. “By enhancing connectivity, ensuring safety, and accelerating development, Ansys enables automotive innovators to create safer, more

efficient, and technologically advanced vehicles. With Ansys, companies can flexibly adapt to market demands and quickly address customer needs.”

[Visit Ansys during CES 2025](#) at the Las Vegas Convention Center, West Hall, Booth #6400 to learn more about Ansys’ automotive and transportation, healthcare, high-tech, and industrial equipment solutions.

Siemens unveils breakthrough innovations in industrial AI and digital twin technology at CES 2025

6 January 2025

Siemens is showcasing its vision for the future where data, AI and software-defined automation will converge to enable unprecedented flexibility, optimization and continuous improvement across the world’s industries, for companies of any size. This ambition is at the heart of Siemens' presence at CES 2025, the world's most influential tech event. Siemens – the global leader in industrial software –demonstrated how its technologies are empowering customers to take bold leaps in industrial innovation.

"Industrial AI is a game-changer that will create significant positive impact in the real world across all industries. Industrial AI allows us to harness the vast amounts of data generated in industrial environments and turn it into insights that drive real business impact. We are adding new industrial AI capabilities across the Siemens Xcelerator portfolio to enable our customers to stay competitive, resilient and sustainable in an increasingly complex world," said Peter Koerte, Member of the Managing Board, Chief Technology Officer and Chief Strategy officer, Siemens AG.

Siemens is bringing Industrial AI directly to the shop floor with the new Siemens Industrial Copilot for Operations, enabling AI tasks to run as close as possible to machines. This facilitates rapid, real-time decision making for shop floor operators and maintenance engineers, boosting productivity, operational efficiency and minimizing downtime. The Siemens Industrial Copilot ecosystem is continuously evolving to offer AI capabilities across the industrial value chain and into sectors including discrete and process manufacturing, infrastructure, and mobility. This suite of copilots can enhance human-machine collaboration across all experience levels, helping to accelerate development times and innovation cycles. The Siemens Industrial Copilot will be integrated with the Industrial Edge ecosystem, which has been enhanced with AI for deploying, operating and managing AI models within the production environment.

JetZero selects Siemens Xcelerator Platform

During Siemens' press conference at CES 2025, the company announced an agreement with JetZero, a pioneering aviation startup working to build the future of sustainable air travel, to collaborate on the development and production of JetZero's revolutionary blended wing aircraft. The innovative blended wing design aims to improve fuel efficiency by 50 percent, reduce noise and deliver the promise of zero carbon emissions by 2035. JetZero will leverage the Siemens Xcelerator open digital business platform to design, manufacture and operate their new aircraft.

JetZero is planning to build "Factory of the Future", a new greenfield factory in the United States where they intend to tightly integrate Siemens' automation hardware, software and services to help it achieve its remarkably ambitious vision encompassing electrification, automation and digitalization of both the aircraft and its production. The JetZero aircraft and its associated manufacturing operations will be simulated virtually using comprehensive digital twins – enabling the company to de-risk the manufacturing process, validate the approach and scale processes long before any ground is broken or jets take to the skies.

"Siemens is giving us the confidence to take a leap, not just a step, in revolutionizing air travel," said JetZero CEO Tom O'Leary. "Their digital twin and industrial metaverse technologies will be instrumental in helping us design, build and operate the world's first fully digital aircraft, delivering a better experience for passengers and airlines while also reducing fuel consumption by 50 percent."

Siemens democratizes industrial tech for startups

Siemens' presence at CES also highlighted the company's commitment to enabling startups and companies of all sizes to use its industrial metaverse technologies. Through the new Siemens for Startups program, innovators of any size have access to the intelligence, ecosystems and technologies they need to turn their big ideas into world-changing innovations. Siemens is providing access to venture partnering and clienting services along with dramatically reduced cost access to software and hardware from the Siemens Xcelerator open business platform. In addition, Siemens is collaborating with Amazon Web Services to offer AWS credits, business development resources and access to the AWS Activate program for technical and go-to-market support.

Collaborating with NVIDIA to bring photorealism to PLM

Together with NVIDIA, Siemens announced new additions to the Siemens Xcelerator open digital business platform, including the Teamcenter Digital Reality Viewer powered by NVIDIA Omniverse, which brings large-scale, physically based visualization directly into the product lifecycle management (PLM) system. This capability also enables teams to collaborate in a secure, digital twin environment using their live 3D data, reducing errors and data discrepancies while streamlining workflows and decision-making.

"Our continued collaboration with NVIDIA will be transformative for our customers, empowering them to virtualize and visualize product and plants like never before. Bringing together the best-in-class capabilities of each company, we're equipping customers with the tools they need to make informed decisions, optimize their operations and accelerate their digital transformation," said Koerte.

Enabling immersive engineering with Sony

In collaboration with the Sony Corporation, Siemens is delivering a new solution for immersive engineering that brings together Siemens NX software for product engineering with a breakthrough head-mounted display from Sony to enable content creation for the industrial metaverse. Now available for pre-order and shipping beginning in February, Siemens' new Immersive Engineering toolset brings the power of mixed reality to the product engineering and manufacturing community, enabling high-fidelity mixed reality and 3D-focused collaboration.

"In the era of digital twins, Siemens and Sony have collaborated closely to bring NX Immersive Designer to market. With 4K OLED Microdisplays, intuitive controls and the comfortable design, closely integrated with Siemens' advanced software, we firmly believe this new immersive engineering solution will pave the way for the future of engineering." said Seiya Amatatsu, Incubation Center, XR Technology Development Division, Sony Corporation.

Introducing Designcenter for product engineering

Koerte was joined on stage at CES by Tony Hemmelgarn, president and CEO, Siemens Digital Industries Software, to unveil Siemens' new Designcenter software suite, which brings together its portfolio of design and engineering software including Solid Edge and NX software in one unified offering so that companies of any size can design and collaborate using the industry-leading Parasolid modeling kernel.

"A lot of companies make their design software available to small businesses or to the very largest enterprises. Designcenter is unique in that it is truly open and accessible for everyone – companies of every size can scale with the same solution set, their data in the same format – without interruption," said Hemmelgarn.

Technology to transform the everyday

At the Siemens booth in the North Hall of the Las Vegas Convention Center, Siemens is showcasing how its technology transforms the everyday, for everyone, through examples of solutions created by Siemens and its customers that impact personal, local and global communities. In addition to JetZero, these examples include:

- Spinnova is a Finnish technology company that enables circularity in textile manufacturing with sustainable and chemical-free fabric production using Siemens' Digital Twin technologies and factory automation.
- Wayout International, a Swedish water technology company developing a proprietary drinking water production solution to improve personal health and well-being in daily life using Siemens' edge computing, digital twin technologies and Insights Hub, the industrial IoT as a service solution from Siemens.
- Desert Control is a Norwegian startup aiming to revolutionize sustainable agriculture and urban greening in regions suffering from desertification, fostering agricultural prosperity and healthy green space using Siemens' Industrial Operations X.
- Arc is an American company focused on the electrification of the marine industry and making boating more modern, enjoyable, and sustainable using Siemens' NX, Teamcenter and Simcenter STAR-CCM+ software.

To learn more about Siemens' presence at CES 2025, visit <https://sie.ag/74o27X>

Financial News

Cadence Announces Fourth Quarter and Fiscal Year 2024 Financial Results Webcast

3 January 2025

Cadence Design Systems, Inc. will hold its fourth quarter and fiscal year 2024 financial results webcast on Tuesday, February 18, 2025.

Participating in the webcast will be Dr. Anirudh Devgan, president and chief executive officer, and John Wall, senior vice president and chief financial officer.

The webcast will begin Tuesday, February 18, 2025 at 2:00 p.m. Pacific Time. An archive of the webcast will be available online from 5:00 p.m. Pacific Time on February 18, 2025 until 5:00 p.m. Pacific Time on Monday, March 17, 2025 at cadence.com/cadence/investor_relations.

DXC Technology to Report Fiscal 2025 Third Quarter Results on Tuesday, February 4, 2025

7 January 2025

DXC Technology announced that it will release its fiscal 2025 third quarter financial results on Tuesday, February 4, 2025, at approximately 4:15 p.m. Eastern Time (ET).

Following the release, DXC Technology's senior management will host a conference call and webcast at 5:00 p.m. ET. The dial-in number for domestic callers is 888-330-2455. Callers who reside outside of the United States should dial +1-240-789-2717. The passcode for all participants is 4164760#. A live webcast will be available on DXC Technology's [Investor Relations website](#).

A replay of the conference call will be available until 11:59 PM ET on February 11, 2025, at 800-770-2030 for domestic callers and at +1-647-362-9199 for international callers. The replay passcode is 4164760#. A transcript of the conference call will be posted on DXC Technology's [Investor Relations website](#).

Invitation: Presentation of Sandvik's report of the fourth quarter 2024

7 January 2025

Sandvik will publish its fourth quarter results on Thursday, January 23, 2025, at approximately 08:00 AM CET.

A combined webcast and conference call for investors, analysts and financial media will be held at 10:00 AM CET. The report will be presented by Stefan Widing, President and CEO as well as by Cecilia Felton, CFO.

The presentation will be broadcasted live on our website home.sandvik

Dial-in details for the conference call:

SE: +46 (0) 8 505 100 31

UK: +44 (0) 207 107 06 13

US: +1 (1) 631 570 56 13

From about 09:30 AM CET presentation slides will be available on our website home.sandvik

Simulations Plus Reports First Quarter Fiscal 2025 Financial Results

7 January 2025

Simulations Plus, Inc. (“Simulations Plus”), a leading provider of cheminformatics, biosimulation, simulation-enabled performance and intelligence solutions, and medical communications to the biopharma industry, reported financial results for its first quarter fiscal 2025, ended November 30, 2024.

First Quarter 2025 Financial Highlights (compared to first quarter 2024)

- Total revenue increased 31% to \$18.9 million
- Software revenue increased 41% to \$10.7 million, representing 57% of total revenue
- Services revenue increased 19% to \$8.2 million, representing 43% of total revenue
- Gross profit of \$10.2 million; gross margin was 54%
- Net income of \$0.2 million and diluted EPS of \$0.01 compared to net income of \$1.9 million and diluted EPS of \$0.10
- Adjusted EBITDA of \$4.5 million, representing 24% of total revenue, compared to \$3.4 million, representing 23% of total revenue
- Adjusted net income of \$3.4 million and adjusted diluted EPS of \$0.17, compared to adjusted net income of \$3.7 million and adjusted diluted EPS of \$0.18

Management Commentary

“We are off to a strong start to fiscal 2025 with total revenue increasing by 31% in the first quarter,” said Shawn O’Connor, Chief Executive Officer of Simulations Plus. “Our team delivered 41% growth across our software platforms. MonolixSuite™ was a meaningful contributor with a 43% growth rate this quarter. We are seeing increased adoption for this leading edge solution including a recent commitment from a major pharmaceutical client to fully implement PKanalix®, which is the user-friendly and fast application for compartmental analysis, non-compartmental analysis, and bioequivalence studies component of MonolixSuite. Additionally, we saw 40% growth in our Quantitative Systems Pharmacology (QSP) business unit with strong demand for model licenses in the disease areas of Psoriatic Arthritis and Crohn’s Disease.

“Services revenue increased 19%, however this segment faced some temporary headwinds this quarter. There were some client-driven data delays that postponed the ramp up of certain projects into our fiscal year second quarter. We were pleased to see that this quarter’s bookings were especially strong in our Clinical Pharmacology & Pharmacometrics (CPP) and Medical Communications (MC) business units.

“Overall, our team achieved solid results despite ongoing funding challenges and cost constraints in the pharma and biotech sectors. The integration of our Adaptive Learning and Insights (ALI) and MC business units is progressing well. For fiscal 2025, we expect momentum

to be strongest in the back half of the year, which puts us on track to meet our stated guidance.”

Fiscal 2025 Guidance

	Fiscal 2025 Guidance
Revenue	\$90M - \$93M
Revenue growth	28 - 33%
Software mix	55 - 60%
Adjusted EBITDA margin	31 - 33%
Adjusted diluted EPS	\$1.07 - \$1.20

Webcast and Conference Call Details

Shawn O’Connor, Chief Executive Officer, and Will Frederick, Chief Financial and Operating Officer, will host a conference call and webcast today at 5 p.m. Eastern Time to discuss the details of Simulations Plus’ performance for the quarter and certain forward-looking information. The call may be accessed by registering [here](#) or by calling 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 <https://www.simulations-plus.com/investorscorporate-profile/corporate-profile/> where it will also be available for replay approximately one hour following the call.

Strong TCV in a seasonally challenging Q3 positions TCS for Long-Term growth

9 January 2025

Tata Consultancy Services reported its consolidated financial results according to Ind AS and IFRS, for the quarter ending December 31, 2024.

Highlights of the Quarter Ended December 31, 2024

- Revenue at **\$7.54 billion**, +3.6% YoY, +4.5% YoY in Constant Currency
- Operating Margin at **24.5%**; a decline of **50 bps** YoY*, sequential improvement of **40 bps**
- Net Income at **\$1.46 billion**, +3.4% YoY* | Net Margin at **19.4%**
- Net Cash from Operations at **\$1.54 billion** i.e. **105.3%** of Net Income
- Workforce strength: **607,354** | LTM IT Services attrition rate at **13.0%**
- Diverse and inclusive workplace: Women in the workforce: **35.3%** | **152** Nationalities
- Dividend per share: ₹ **76.00** including ₹ **66.00** as special dividend | *Record date 17/01/2025 | Payment date 03/02/2025*

*excludes settlement of legal claim

K Krithivasan, Chief Executive Officer and Managing Director, said: *“We are pleased with the excellent TCV performance in Q3 which was well-rounded across industries, geographies and service lines lending good visibility to long-term growth. BFSI and CBG returning to growth, continued stellar run of Regional Markets and early signs of revival in discretionary spend in some verticals give us confidence for the future. Our continuing investments in upskilling, AI/Gen AI Innovations and partnerships sets us up to capture the promising opportunities ahead.”*

Samir Seksaria, Chief Financial Officer, said: *“In a quarter that saw significant cross-currency volatility, TCS’s strong execution, cost management and deft currency risk management helped deliver healthy margin improvement and free cash flows. Disciplined investments in talent and infrastructure should lend good support to long-term business growth.”*

Milind Lakkad, Chief HR Officer, said: *“We promoted over 25,000 associates this quarter which brought the total promotions this financial year to more than 110,000. We continue to invest in employee upskilling and overall well-being. Our campus hiring for the year is going according to plan and preparations are afoot to onboard a higher number of campus hires next year”.*

Q3 FY25 Segment Highlights

Growth by Domain

Industry	Composition (%)		Y-o-Y CC Growth (%)
	Q3 FY24	Q3 FY25	
BFSI	31.7	30.5	0.9
Consumer Business	15.7	15.3	1.1
Life Sciences & Healthcare	10.9	10.1	- 4.3
Manufacturing	8.7	8.4	0.4
Technology & Services	8.4	8.0	- 0.4
Communication & Media	6.7	5.8	- 10.6
Energy, Resources and Utilities	5.7	5.6	3.4
Regional Markets & Others	12.2	16.4	40.9
Total	100.0	100.0	4.5

Growth by Markets

Geography	Composition (%)		Y-o-Y CC Growth (%)
	Q3 FY24	Q3 FY25	
Americas			
North America	50.6	47.7	- 2.3
Latin America	2.1	1.9	7.0
Europe			
UK	16.4	16.6	4.1
Continental Europe	15.0	13.9	- 1.5
Asia Pacific	7.8	7.8	5.8
India	6.1	9.8	70.2
MEA	2.0	2.3	15.0
Total	100.0	100.0	4.5

Services

Clients prioritized initiatives that accelerated technology modernization, factory of the future, business transformation, technology simplification and sustainability.

Cyber Security, AI.Cloud and TCS Interactive led the growth this quarter.

Win themes across key deals involved manufacturing IT operations, managed services, Operating model transformation, vendor consolidation, CX transformation, legacy modernization, and Gen AI led transformation.

With increased regulatory scrutiny and legislative action, responsible AI adoption is top of mind for our clients. We have launched an innovative offering, TCS 5A Framework for Responsible AI with our partner AWS. This is the first of its kind in the industry. It helps identify and mitigate AI risks holistically.

- **AI.Cloud:** Gen AI/Cloud services continued to see significant growth for us this quarter. Clients are investing in Agentic AI adoption, building robust data foundation and taking a value chain-based approach to AI and Gen AI led transformation. We actively engaged with clients on AI/Gen AI led software engineering, legacy

modernization and AI.Ops. We saw an increase in successful production deployment of AI/Gen AI engagements leading to greater business certainty and confidence for our clients. Cloud services continued to see good traction in legacy Modernization, Data Platform Modernization and Technology Landscape Simplification.

- **Cyber Security:** Cyber Security services and solutions saw strong growth. Growth was led by Technology, Software and Services and BFSI industry units. Clients continued to focus on Identity and Access Management, Governance, Risk & Compliance (GRC), Managed Detection & Response (MDR) and Cloud Security. We are also seeing good traction in Secure Gen AI and vulnerability management.
- **TCS Interactive:** TCS interactive services saw good traction this quarter. BFSI and CBG led growth in industry segments. Businesses and marketers are investing in personalization, data harmonization, marketing operations, and orchestrate the appropriate technology and data foundations. To capitalize on these opportunities, we continue to invest in creative design, content services, leading technology partnerships, Gen AI solutions, and niche talent development to remain future-ready and relevant.
- **IoT & Digital Engineering:** IoT & Digital Engineering continues to see steady investments in Factory of the Future (Smart Manufacturing including Operational technology (OT) modernization), IoT Enabled Connected Services & Assets and Digital Thread. This quarter saw a good number of large deals for our services. Key services that saw traction included intelligent product engineering design, support and services, Manufacturing IT systems and Industry 4.0. Demand is growing for integrating AI & Gen AI with established services.
- **Enterprise Solutions:** Clients continue to invest in their digital core ERP modernization. They are partnering with TCS in their business and CX transformation journey for solutions in supply chain optimization, claims modernization, sustainability and reimagining sales & service channels. Gen AI is an area of interest across industries. Our transformation approach, contextual knowledge and industry pre-configured solutions including TCS Crystallus™ are enabling customers to accelerate their growth and transformation journeys. BFSI, TSS and CBG led growth in Industry segments.
- **Cognitive Business Operations:** In this quarter, we saw multiple large wins across end-to-end IT IS services, Digital Workplace, Data Center, Network, Customer Experience, HR and Finance. Key themes fueling growth are operating model transformation, Vendor Consolidation, Customer Experience, Gen AI adoption, First time outsourcing and Integrated operations. Some of the deals won were proactive without competition. CBG and BFSI industry segments led growth.

Key Highlights

- Partnered with **Landis+Gyr** to integrate our award-winning enterprise-level energy and emission management system TCS Clever Energy™ with their advanced smart metering and grid management technologies, creating a comprehensive energy management solution for utilities. The partnership will enable utilities to meet the complex energy

demands of their commercial and industrial clients while offering them advanced tools to optimize energy usage and achieve sustainability targets.

- Extended partnership with **Telenor Denmark (TnDK)**, the second largest mobile operator in the Danish market, to provide ITIS managed services, handling TnDK's IT infrastructure from its delivery centre in Europe over the next five years, to deliver significant operational cost reductions and improved IT infrastructure.
- Selected by **Bank of Bhutan** to modernize the bank's digital core for enhanced customer service. TCS will implement its TCS BaNCS™ Global Banking Platform to help the bank optimize operations and seamlessly integrate with the various public services within the digital ecosystem of the country.
- Signed a multi-year deal to help **Air France-KLM**, to become the most data-centric airline group in the world. TCS will modernize the airline group's data by moving it to cloud and this shift will help Air France-KLM exit data centers and harness the strength of the cloud, supporting a sustainable and adaptive aviation industry. The new data architecture will enable the use of data to enhance operations, drive decisions, improve functionality, and gain efficiency.
- Extended contract with **SPARSH**, to continue to streamline and enhance pension services for 30 Lakh Plus defence pensioners in India. TCS has achieved significant reductions in pension processing times and implementing the One Rank One Pension (OROP) scheme, benefiting 1.8 million pensioners.
- **Jabil**, a leading engineering, manufacturing, and supply chain solutions company has selected TCS as a partner to further solidify its digital transformation agenda. TCS will support the simplification of manufacturing IT systems to better rationalize, streamline and secure Jabil's manufacturing applications ecosystem and enterprise architecture for operational efficiencies. This project will allow Jabil to focus and invest in its core competencies.
- Secured a 15-year contract with **Ireland's Department of Social Protection (DSP)** to implement and support the country's new Auto Enrolment Retirement Savings Scheme, known as the "My Future Fund." This initiative will provide a comprehensive, end-to-end digital solution for automatic enrolment of nearly 800,000 workers in Ireland.
- Selected by Canada's largest worker compensation board, **Workplace Safety and Insurance Board (WSIB)**, as a strategic partner to transform the enterprise quality assurance landscape. As part of the expanded partnership, TCS will leverage its expertise in Guidewire services, cloud, data, and AI to help WSIB realize its objective of delivering better, easier, and faster services to workers and businesses in Ontario.
- Selected by **Postnord Group AB**, postal and logistics services company in Nordics as their strategic partner to transform their operating model. TCS team helped establish the roadmap for the transformation and will now embark on the first phase of the journey - centralizing operations in production. This will ensure best-in-class services

and continuous innovation, deliver significant productivity gains and superior user experiences.

- Entered a multi-year deal with a leading **US life and annuities provider** to transform their business operations with TCS' AI-powered solutions and industry-proven operational efficiency levers. As part of the partnership, TCS will leverage its extensive domain knowledge, IP assets from its Cognitive Automation Platform, and a suite of AI/ML solutions, to help the firm achieve straight through processing, improve service quality and customer experience.
- Selected by **global appliances manufacturer** for end-to-end managed services for Applications, Infrastructure, and Cyber Security services globally. TCS will elevate the customer experience by deploying enterprise observability, spanning the entire business value chain and automate the process through the TCS ignio platform.
- **Chorley Building Society** has partnered with TCS to transform its core banking and front-end digital platform, using TCS BaNCS™, a digital home lending solution for mortgage origination and a mobile app to enhance user experience, support Chorley's growth plans and improve operational efficiency.
- TCS has been chosen by a leading **Malaysian telecommunications provider** to transform their wireline Enterprise and Wholesale Business Support Systems (BSS) to support their strategic business growth objectives, using a cloud-native platform powered by TCS HOBS and TCS TwinX's AI-driven business simulation capabilities. This partnership aims to enhance customer experience, accelerate time-to-market for new products and services, optimize operations, and strengthen the provider's market share in Malaysia.
- A **US-based telecom major** has entered a 5-year strategic relationship with TCS to provide managed services for specific solutions. We will leverage our investments in next gen AI technologies and platform-based operations, including pre-configured and integrated AI/GenAI solutions to drive Operating Model Transformation, enhance customer experience and business agility for business customers across industries.
- Selected by a large **UK-based investment platform provider** to enhance and manage their digital platform for advisors and customers. As part of the multi-year partnership, TCS will implement a next-generation engineering-led operating model designed to enhance and optimize digital platform capabilities to cater to the evolving business needs and elevate user experiences. By leveraging advanced AI solutions, TCS will ensure proactive monitoring of the system health and enable self-healing. The expanded partnership reflects TCS' commitment to delivering cutting-edge solutions to help the firm drive operational excellence, innovation, and customer satisfaction.
- A leading **provider of hospitality services** has entrusted TCS to manage their entire business applications portfolio across all operating countries. TCS will drive Machine First™ intelligent operations to bring hyper-automation, DevOps, observability, and cloud-native capabilities and will also manage the underlying infrastructure, data

centers, cloud, cyber-security and the service desk. This will enhance operational efficiencies and deliver significant savings.

- Selected by a leading **American grocery retailer** to transform their Demand Planning & Replenishment operations. TCS will provide business process services for “center of store” (not fresh or frozen) categories and drive digitalization, automation, analytics & AI to improve decision making and forecast accuracy, while lowering forecast bias. This will help increase distribution center to store fill rate, and operational efficiencies.
- Selected as the exclusive strategic growth & transformation partner to help a leading **Canadian retail corporation and subsidiary** of a U.S. based multinational retail conglomerate on their growth and transformation journey. TCS will consolidate the work of 20+ vendors to deliver services across Supply Chain, Stores, Pharmacy, Distribution Centers & Corporate. TCS will also work on transforming the data architecture to future proof the business leveraging Agentic AI and Gen AI. This will deliver significant efficiencies, improve agility and scalability and ensure continuous improvement through innovation.
- TCS extended the strategic partnership with a leading **global industrial manufacturing and technology** company to provide Enterprise Application Support services including SAP, Salesforce, Contact Center, Service Desk, Engineering & eCommerce Applications and Customer portals. We will bring the automation-driven approach to optimize the run cost, improve system availability & observability, and enhance customer & user experience.
- Selected by **global leader in flavors, fragrances, food ingredients** company to work on a one-of-its-kind initiative to determine the Protein Yield and molecular discovery for fragrances and flavors using Nvidia’s BioNeMo framework. It is expected to cut down the research cycle time upto 5x by eliminating trial and error experiments. This framework leverages TCS’ Pace Port™ and delivery ecosystem to target protein structure prediction, which is crucial for understanding protein function and designing new therapeutic molecules.
- Selected by a **leading European airline group**, as their strategic innovation partner to deliver tailored AI solutions. TCS will onboard its WisdomNext™ platform to enable meaningful innovation across the organization and kick-start the journey by creating a Gen AI based chat interface which will assist associates in responding to emails, classifying and validating documents. This will set the stage for impactful, long-term AI-driven transformations across business units.

Customer Speak

“In a rapidly evolving industry, we are committed to becoming a champion of air transport in Europe, while fulfilling our role as a frontrunner of sustainable aviation. We are pleased to open a new and exciting chapter with our long-time partner, TCS, to make the most out of our data and new technologies to become even more data-centric and agile to meet and exceed our customers’ expectations.”

Pierre-Olivier Bandet, EVP & Group CIO, Air France-KLM Group

“We are happy to reinforce our partnership with TCS with the selection of TCS BaNCS™ Global Banking Platform. We remain committed to continuously innovating and enhancing customer experience. This translates into offering personalized, comprehensive, high-performing financial products and services, including the capabilities required to support the country-wide digitization and digital currency initiatives by the Kingdom of Bhutan. The selection of the TCS BaNCS™ Global Banking Platform that is designed and built on a modern technology stack with ecosystem enablers reflects this philosophy. The solution will also serve as a platform for future programs such as the implementation of AI technologies across operational workflows to boost productivity.”

Dorji Kadin, Chief Executive Officer, Bank of Bhutan

“Our partnership with TCS has been an important factor in driving innovation and ensuring resilience in our IT infrastructure. By continuing our collaboration, we are confident that TCS will continue to deliver the strategic insights and technological expertise required to navigate the complexities of our evolving business environment.”

Louise Haurum, Chief Technology Officer, Telenor Denmark

“This renewed agreement positions us to leverage TCS's cutting-edge technologies and innovations, further enhancing our operational capabilities and competitive edge. A long-term arrangement such as this ensures stability and allows us to strategically plan and allocate resources to continue bridging the financial gap for unbanked and underserved populations. This collaboration aligns seamlessly with the Government's vision of ‘Sabka Saath, Sabka Vikas, Sabka Vishwas, Sabka Prayaas’, driving us closer to building an Aatmanirbhar Bharat. Through innovation, dedication, and collective effort, we aim to bring inclusive financial services to every corner of the nation, fulfilling the aspirations of millions and contributing to India's self-reliance and growth.”

Vimal Kumar Negi, General Manager, Financial Inclusion and Corporate Social Responsibility, BoB

“As we continue our partnership with TCS in digitalizing the IT operating model at Advantage Solutions, TCS has delivered several significant milestones in 2024, leading to the enterprise-wide rollout of the new service management tool (ServiceNow), the launch of a cognitive IT help bot, and the stabilization of RunOps for IT service desk delivery. These accomplishments have greatly improved the customer experience, as evidenced by enhanced service desk metrics such as call service rate, average speed to answer, and first contact resolution rate. The TCS deliverables have also facilitated the rapid adoption of the new digital ticketing platform and improved the accuracy of provisioning devices and accessories to Advantage field reps. I’d

like to extend a heartfelt thank you to for their invaluable support in helping us achieve these milestones.”

Jey Perumalswamy, Vice President – Technology, Advantage Solutions Inc.

Research and Innovation

As on **31st December 2024**, the company had applied for **8,549 patents**, including **195 applied** during the quarter and been granted **4,585 patents** including **216** during the quarter.

Human Resources

TCS’ workforce stood at **607,354** as on December 31st. The employee base is very diverse, with **35.3%** women and with **152** nationalities.

TCSers have clocked **40.1 million** learning hours and acquired **3.8 million** competencies YTD. IT services’ attrition was at **13%** for the last twelve months.

Implementation Investments

CIEBON Chooses Centric PLM to Streamline and Align Teams

7 January 2025

Centric Software® is pleased to announce that CIEBON, the fashion company has selected Centric PLM™ to boost collaboration and speed to market. Centric Software provides retailers and brands the most innovative end-to-end product lifecycle enterprise solutions to plan, design, develop, source, buy, make, price, allocate, sell and replenish products such as fashion, outdoor, luxury, footwear, home and related goods like cosmetics & personal care as well as multi-category retail to achieve strategic and operational digital transformation goals.

Based in Los Angeles, California, CIEBON was established in 2021. This contemporary womenswear brand seamlessly merges modern femininity with effortless chic, from dresses to sportswear. Showcased in seasonal collections, CIEBON stands out for its unexpected details and luxurious fabrics, offering a curated selection of statement pieces and elevated ready-to-wear designs. The brand’s collections are available in upscale boutiques, department stores and online.

Daniel Banaga, Creative Director at CIEBON describes how the growth of the business outpaced the growth of the team. Banaga described the tools they used when the company first started as ‘rudimentary’. “We had to learn all the technical know-how and how to do all the integrations with our ERP system. That took a lot of time away from building the business and focusing on the brand,” he explains. Implementing Centric PLM will allow for freedom of tedious tasks shifting focus to collection inspiration and design enabling overall growth of the business.

The brand is renowned for creating custom fabrics with vivid prints and in-house embroidery designs. Banaga explains, “We develop all our embroidery in-house and having a material

library for base fabrics and artwork in our colorways will be an incredible asset. It allows us to revisit past designs and reinvent them in fresh, new ways—it's truly a game changer. With these essentials organized in our PLM, creating new designs or updated versions of existing ones will be seamless and efficient.”

Founder and CEO Charlene Xie says, “I wanted things in a very particular way to offer unique, colorful pieces made with rich fabrics. We are grateful boutiques and retailers appreciated that and it is why we've grown so quickly.” It was this growth that propelled the company to look for a PLM solution.

CIEBON identified bottlenecks and misaligned communication as significant pain points. Banaga shares, “Fashion is so time sensitive that if you're not organized and don't have all your ducks in a row, you end up suffering the consequences at some point—immediately or down the road. Having a reliable source of information is critical. With our small team moving quickly, effective communication can be a challenge. We needed a centralized system to ensure accurate, up-to-date information and track changes and progress seamlessly. That level of visibility is critical for staying aligned and driving our work forward.” Banaga continues, “One of the main draws for us was the Centric vendor portal. With overseas suppliers, communication over email can get muddled. We needed the ability to see what's happening on the vendor's side and to track the progress and changes...Being able to communicate all the changes and all the comments, especially to our vendors—fabric mills and garment companies—is huge. There are numerous collaborations that need to happen. Every minute counts when it comes to what we're doing. Being organized is key.”

CIEBON did the research and found Centric Software to be an expert in the PLM industry. Banaga says, “When we saw that first Centric PLM demo, it was pretty clear that's what we were missing and what we needed to keep growing.”

President of Centric Software Fabrice Canonge says, “We are proud to welcome CIEBON, an exciting, emerging fashion brand, to the Centric Software community. They are poised for huge growth and Centric PLM is the perfect tool to enable that growth by organizing data, improving collaboration with vendors and speeding time to market, leaving them to focus on creativity and innovation.”

From ERP to WMS: Arctic Import optimizes warehouse management

9 January 2025

Arctic Import has experienced significant growth in recent years and has taken several initiatives to keep up with this progress. The company is transitioning from an ERP-driven warehouse to a dedicated WMS solution, to optimize inventory management and reduce complexity. The choice fell on LOGIA WMS, which will now ensure efficient processes at its upcoming logistics center in Nuuk and the existing warehouse in Torshavn.

High demand for efficient warehouse management

Arctic Import is a wholesale company that supplies groceries to grocers, restaurants, ships, and various products to public and private organizations. With over 400,000 unique products and partnerships with approximately 400 suppliers, efficient inventory management is crucial.

The solution will first be implemented at the current warehouse, followed by the new 1,250 m² logistics center in Nuuk, which will accommodate 1,200 additional pallet spaces. LOGIA WMS will manage all processes from goods receipt to shipping and ensure efficient operations across the storage areas for refrigerated, frozen, and dry goods. Arctic Import has also invested in a vertical storage lift and a narrow-aisle truck, which will also be controlled by LOGIA WMS. The combination of warehouse management and automation will increase efficiency and optimize the utilization of storage space.

WMS unleashes the full potential of the warehouse

The shift from an ERP-driven warehouse to a specialized warehouse management system enables Arctic Import to optimize its warehouses and achieve even better results.

With LOGIA WMS, the company can, for example, perform picking during the receipt of the goods and minimize the number of warehouse handlings. The system's batch-picking function enables simultaneous picking for multiple orders, and the solution automatically prioritizes orders based on warehouse distribution routes, including pick-up times and delivery destinations. With FEFO date management (First Expired, First Out), the WMS ensures that items with the nearest expiration dates are always picked first from the wholesale warehouse.

Arctic Import will go live with LOGIA WMS in the summer of 2025.

Honda and Renesas Sign Agreement to Develop High-Performance SoC for Software-Defined Vehicles

8 January 2025

Honda Motor Co., Ltd. and Renesas Electronics Corporation announced that they have signed an agreement to develop a high-performance system-on-chip (SoC) for software-defined vehicles (SDVs). The new SoC is designed to deliver leading-edge^{*1} AI performance of 2,000^{*2} TOPS combined with a world-class power efficiency of 20 TOPS/W, and is slated for use in future models of the "Honda 0 (Zero) Series," Honda's new electric vehicle (EV) series, specifically those that will be launched in the late 2020s. The agreement was announced during a Honda press conference held at CES 2025 in Las Vegas, Nevada on January 7.

Honda is developing original SDVs to provide a mobility experience optimized for each individual customer in the Honda 0 Series. The Honda 0 Series will adopt a centralized E/E architecture that combines multiple electronic control units (ECUs) responsible for controlling vehicle functions into a single ECU. The core ECU, which serves as the heart of the SDV, manages essential vehicle functions such as Advanced Driver Assistance Systems (ADAS) and Automated Driving (AD), powertrain control, and comfort features, all on a single ECU. To achieve this, the ECU requires a SoC that provides higher processing performance than traditional systems, while minimizing any increase in power consumption.

Renesas is committed to providing automotive semiconductor solutions that enable automobile OEMs to develop SDVs. Renesas' R-Car solutions offer higher AI performance with the ability to customize by leveraging multi-die chiplet technology^{*3} and integrating AI accelerators^{*4} into its SoC.

To realize the Honda vision for SDVs, Honda and Renesas reached an agreement to develop a high-performance SoC compute solution designed for core ECUs. Using TSMC's leading-edge 3-nm automotive process technology, this SoC also can achieve a significant reduction in power consumption. Additionally, it realizes a system that utilizes multi-die chiplet technology to combine Renesas' generic fifth-generation (Gen 5) R-Car X5 SoC series with an AI accelerator optimized for AI software developed independently by Honda. With this combination, the system aims to achieve one of the industry's top class AI performances with power efficiency. The SoC chiplet solution will provide the AI performance required for advanced functions such as AD, while keeping power consumption low. Chiplet technology allows flexibility to create customized solutions and offers future upgrades for functional and performance improvements.

Honda and Renesas have collaborated closely for many years. This agreement will accelerate the integration of advanced semiconductor and software innovations into the Honda 0 Series, enhancing the mobility experience for customers.

*1 Renesas estimate as of January 2025

*2 Tera Operations Per Second (TOPS) is a metric of AI processing performance and measures the number of operations that can be performed per second. Based on a sparse AI model.

*3 Technology to build a system by combining multiple chips with different functions

*4 Hardware designed for high-speed and high-efficiency AI (artificial intelligence) computational processing

Jollibee Group Selects Qualtrics for New Global Customer Experience Program

8 January 2025

Qualtrics, the leader and creator of the experience management (XM) category, announced that Jollibee Group, one of the largest and fastest-growing restaurant companies in the world, has selected Qualtrics® to elevate customer experience for its brands that include Jollibee, The Coffee Bean and Tea Leaf, and Smashburger.

"The multi-year agreement underscores our commitment to delivering exceptional experiences for our global store network. By leveraging Qualtrics, we can consolidate customer feedback from in-store and digital touchpoints, accelerate case resolution, and provide actionable insights for our customer-facing teams," Marcos Cadena, Global Chief Technology Officer of the Jollibee Group.

"Qualtrics enables us at the Jollibee Group to better understand our diverse customer base, helping ensure that we meet their evolving needs and expectations," said Jacqueline Fuentes, Head of Global Customer Experience of the Jollibee Group. "Qualtrics provides the capabilities

and insights we need to continuously enhance our customer experiences and build stronger connections with the millions of customers we serve worldwide.”

“Companies that win and succeed in today’s fast-moving markets prioritize delivering great experiences their customers love,” said Brad Anderson, President of Product, UX & Engineering, Qualtrics. “Thousands of organizations across the globe, including the Jollibee Group, are using Qualtrics to improve their customer experience by capturing feedback from multiple channels to deeply understand the needs and expectations of their customers and take fast, targeted, and proactive action when and where it matters most.”

KION Teams with NVIDIA and Accenture to Optimize Supply Chains with AI-Powered Robots and Digital Twins

6 January 2025

KION GROUP AG, the Supply Chain Solutions Company, is working with Accenture to optimize supply chains using NVIDIA’s advanced AI and simulation technologies.

At the Consumer Electronics Show (CES) in Las Vegas, the three companies are showcasing¹ how clients can both define ideal set-ups for new warehouses and continuously enhance existing facilities with Mega, an NVIDIA Omniverse blueprint for large-scale industrial digital twins. This includes a digital twin powered by physical AI—AI models that embody principles and qualities of the physical world—to improve the performance of intelligent warehouses that operate with automated forklifts, smart cameras and the latest automation and robotics solutions.

“At KION, we leverage AI-driven solutions as an integral part of our strategy to optimize our customers’ supply chains and increase their productivity,” said Rob Smith, CEO of KION GROUP AG. “With NVIDIA’s AI leadership and Accenture’s expertise in digital technologies, we are reinventing warehouse automation. Bringing these strong partners together, we are creating a vision for future warehouses that are part of a smart agile system, evolve with the world around them, and can handle nearly any supply chain challenge. This collaboration underscores our commitment to innovation and pushing the boundaries of industrial automation to usher in a new era of supply chain efficiency.”

“Modernizing supply chains to make them more resilient and agile, with real-time flexibility, is the next digital frontier,” said Julie Sweet, chair and CEO, Accenture. “This collaboration with our long-term client KION and partner NVIDIA will break exciting new ground in not only reinventing the warehouse, but also in raising their performance standards with technology, data and AI, helping our clients operate autonomous, safe supply chains that better serve their customers and consumers, enhance productivity and efficiency and create new value.”

“Future warehouses will function like massive autonomous robots, orchestrating fleets of robots within them,” said Jensen Huang, founder and CEO of NVIDIA. “By integrating Omniverse and Mega into their solutions, KION and Accenture can dramatically accelerate the development of industrial AI and autonomy for the world’s distribution and logistics ecosystem.”

Taking advantage of digital twins to plan warehouses and train robots

Today's warehouses and fulfillment centers combine workers, autonomous vehicles, and fully automated systems. Managing these complex environments requires a delicate balance of precision and adaptability—a challenge compounded by fluctuating demand and shifting inventory needs.

Using NVIDIA Omniverse and Mega, KION will be able to provide digital twins of warehouses that allows facility operators to design the most efficient and safe warehouse configuration without interrupting operations for testing. This includes optimizing the number of robots, workers, and automation equipment. The digital twin provides a testing ground for all aspects of warehouse operations, including facility layouts, the behavior of robot fleets, and the optimal number of workers and intelligent vehicles.

The digital twin doesn't stop at simulating and testing configurations. It also trains the warehouse robots to handle changing conditions such as demand, inventory fluctuation and layout changes in the best possible way. Integrated with KION's warehouse management software, the digital twin assigns tasks like moving goods from buffer zones to storage locations to virtual robots. Powered by advanced AI, the virtual robots plan, execute, and refine these tasks in a continuous loop, simulating and ultimately optimizing real-world operations with infinite scenarios. For the CES showcase, Accenture developed an interactive application that tracks how digital robot fleet and facility planning and testing enhances warehouse key performance indicators, such as throughput, task completion time, safety incidents and error rates.

As a next step, the partners are working to integrate the digital twin with a fine-tuned vision language model to capture real-time insights from warehouses, reducing the risk of bottlenecks, accidents and other unforeseen events, pairing cameras, robots and NVIDIA NIM, a set of services for deployment of foundation models to edge devices in the warehouse.

In essence, the warehouse of the future will create an environment where both human workers and machines can collaborate seamlessly and safely. It predicts, visualizes and adopts to potential issues and generates data-driven insights for operators. This ultimately helps clients design warehouses that are not only more efficient but also more resilient.

¹ *The AI and robotics-powered warehouse is showcased at CES at the Accenture Innovation Hub in Ballroom "F" of The Venetian Convention and Expo Center, 201 Sands Ave, Las Vegas.*

Teway Food Launches Second Phase of Centric PLM Partnership to Drive Further Innovation and Efficiency

31 December 2024

Centric Software® is pleased to announce that Teway Food has successfully launched the second phase of its partnership with Centric PLM™. Centric Software provides the most innovative enterprise solutions to plan, formulate, develop, procure, manufacture and sell consumer goods products in food & beverage, grocery, fashion and multi-category retail to achieve strategic and operational digital transformation goals.

Established in 2008, Sichuan Teway Food Group Co., Ltd. (Teway Food) is a leading enterprise in agricultural industrialization, specializing in the R&D, production and sales of compound seasonings. With two smart factories and four modern production bases, Teway Food offers five major brands—*Hao Ren jia*, *Da Hong pao*, *Tian Che*, *Teway Cantonese High-end Customisation* and *Shi Cui Fang*. Teway Food's products are sold across all 31 provinces in China and exported to countries including the US, UK, Canada and Australia.

After successfully implementing Centric PLM in 2023, Teway Food has enhanced its R&D efficiency, boosted product innovation and streamlined business operations. The platform has enabled the company to standardize data, improve product management and create a more collaborative environment.

Mr. Hu Tao, Technical Director of Teway Food's Innovation and Research Center, comments on the impact of Centric PLM, "We can now efficiently track formula adjustments, facilitating knowledge sharing and staff training. Integration with our ERP system also allows us to quickly assess sales performance and monitor the penetration rate of new products among distributors."

Now, Teway Food is embarking on the second phase of its PLM project, aiming to further improve operational efficiency and expand the platform's capabilities. This next phase will focus on automating food safety risk warnings, enhancing batch operation efficiency, managing shelf-life verification, refining real-time raw material cost monitoring and increasing transparency in competitive development.

Mr. Zhu Yi, Director of Teway Food's Digital Center, adds, "In the second phase, we aim to continue our innovation efforts by deeply integrating Centric's technology into our processes. Our goal is to better empower business development and maintain our leadership in the industry."

Reflecting on the ongoing partnership, Mr. Tao shares his positive experience with Centric, "From the start, we've found Centric PLM to be incredibly flexible and well-suited to the fast-moving consumer goods industry. The Centric team is pragmatic, always striving to meet our needs, making the collaboration both efficient and enjoyable. This has been a key factor in our continued partnership with them."

"We are delighted to continue our partnership with Teway Food as they advance to the second phase of their PLM journey," says Fabrice Canonge, President of Centric Software. "The success of their first phase highlights how Centric PLM drives efficiency, innovation and seamless collaboration. We look forward to innovating with Teway Food in their ongoing digital transformation as they achieve their strategic goals and continue to lead in the food industry."

Product News

ActCAD 2025 New Update 130773 Released, Dt.31 Dec, 2024

31 December 2024

ActCAD 2025 New update 130773 released for PREMIUM, STANDARD and MAP DRAFTER. This is a general maintenance release with below mentioned fixes and improvements:

- Added new DRAWINGCOMPARE feature
- Added new Network License usage tool
- Added new POWERTRIM command
- Added new LANGUAGE_TRANSLATOR command
- Added new block symbols up to 500
- Added new HATCHSETORIGIN command
- Added new HATCHSETBOUNDARY command
- Added new ATTACHURL and DETACHURL commands
- Added new CLIPIT command
- Added new BLEND command
- Implemented new code signing technology
- Improved several dialogs inside ACTCAD
- Improved Installer process
- Fixed RESETBLOCK delete all similar copies of the selected ADV block
- Implemented some IcArx new functions needed by NCP global
- Fixed crash issue when copying and pasting ADV Blocks from one drawing to another
- Fixed MTEXT %% symbol codes not copied and spellchecked correctly
- Improved the ability to work on multiple layouts simultaneously
- Fixed the issue of URL info paste problem
- Fixed the issue of changing an existing Xref Path from absolute to relative
- Fixed the issue of copies of the advanced block missing
- Fixed the hanging issue if ESC or Enter is pressed, hang symptoms appear while running LISP
- Fixed certain compilation issue of .Net code
- Fixed REGENTOOLTIP should work when REGENMODE is Off

Bamboo Rose Unveils TotalPLM: The Industry's Most Comprehensive Retail Management Platform, Powered by AI and Creative Collaboration

9 January 2025

Bamboo Rose, a leading provider of enterprise software solutions for the retail industry, is proud to announce the culmination of a strategic product transformation: TotalPLM™, the most comprehensive and innovative product lifecycle management (PLM) platform on the market.

This groundbreaking upgrade to Bamboo Rose's proven solution integrates a suite of advanced retail technologies, including Planning and Merchandising, Creative Collaboration, Product Development, Sourcing, Supplier Relationship Management, Purchase Order Management, and Global Trade Management all powered by AI-fueled Decision Intelligence. Bamboo Rose was once again named a leader in the December 2024 IDC MarketScape: Worldwide Retail, Footwear, and Apparel PLM 2024 Vendor Assessment.

"Our customers have clearly stated they need a proven retail technology partner that delivers consistent and tightly integrated value across their entire product lifecycle. We've been hard at work for the past two years – TotalPLM is the realization of those efforts. From planning, ideation, through to development, sourcing, and on to purchasing and logistics, we're excited to lead the industry and meet our customers' needs at every stage of their digital journey," stated Matt Stevens, Bamboo Rose CEO.

TotalPLM Introduces Three Additional Capabilities

- Creative Collaboration: BR-Create

The newest component of TotalPLM is BR-Create. This new module, powered by VibelQ, is set to debut at NRF, marking a significant leap forward for Bamboo Rose. "PLM systems have a proven track record of improving efficiency and agility in a retailer's or brand's supply chain," said Mark Harrop, WhichPLM advisor. "However, the structured and repeatable processes that make these systems effective can also add extra work upfront before final decisions are made. Through the partnership between Bamboo Rose and VibelQ, TotalPLM is enabling seamless collaboration between merchants and designers before the PLM process begins. This will provide customers with the much-needed capabilities to stay competitive in an ever-evolving market."

BR-Create completes the TotalPLM vision, redefining product line concepting and collaboration for designers and merchandising teams in the fashion and general merchandise segments. Developed by VibelQ and OEM'd, directly deployed, and supported by Bamboo Rose, this module empowers creative teams to streamline design processes, manage real-time feedback, and drive innovation all within the fully integrated TotalPLM platform.

"When we founded VibelQ, we saw a critical gap in the market: the lack of effective collaboration between planning, merchandising, design, and product development. These teams often operate in silos, leading to inefficiencies and missed opportunities. That's why we created VibelQ – to bridge the gaps and bring these teams together in a seamless, intuitive, and highly visual way," said Brian Lindauer, VibelQ CEO. "By joining forces with Bamboo Rose, we're not just adding a feature; we're transforming the way brands and retailers collaborate, innovate, and bring their best products to market across the entire product lifecycle."

BR-Create addresses the critical gap between planning and product development enabling real-time collaboration and product visualization across merchandising, design, and product development teams. BR-Create enables retailers and brands to make better assortment and product decisions by connecting previously siloed teams, processes, and systems.

- **AI-Fueled Decision Intelligence: BR-Decision Intelligence**

Integration of December 2024 acquisition, Verteego, delivers AI-fueled Decision Intelligence to TotalPLM. Now known as BR-Decision Intelligence, the application-wide machine learning layer positions Bamboo Rose as the only PLM provider with a true horizontal AI approach. TotalPLM's AI capabilities ensure that businesses can operate with unprecedented agility and precision.

- **Planning for a New Era in Retail Management: BR-Plan**

Following the acquisition of Foresight Retail, TotalPLM's BR-Plan module connects planning and merchandising to product development with bidirectional data flows. Retailers gain better visibility, alignment, and control across the product lifecycle.

Celebrate with Bamboo Rose at NRF 2025: Retail's Big Show

Bamboo Rose will showcase TotalPLM and its innovative modules, including BR-Create powered by VibelQ, to a global audience of retail professionals at NRF 2025 in just a few days. Attendees can expect dynamic demonstrations of how TotalPLM will transform their business, from enhancing planning and merchandising to revolutionizing creative collaboration to leveraging AI-fueled Decision Intelligence.

BETA CAE Systems announces the release of the v25.1.0 of its software suite

23 December 2024

BETA CAE Systems is thrilled to announce the release of the major version v25.1.0 of its product line for ANSA, EPILYSIS, META, KOMVOS, SPDRM as well as FATIQ, ANSERS and RETOMO.

Just a few months after the game-changing launch of v25.0.0, this first point release of v25.x.x series adds extra value to your processes with brand-new functionality, while resolving acknowledged bottlenecks of the recent past.

With enhanced stability and boosted performance, v25.1.0 comes as a non-negotiable version migration within BETA software suite, providing even more efficiency in model handling, further ingenuity in workflow concepts, methods and techniques, whereas, along with the integration of new tools, it takes automation and customization to the next level.

Don't miss:

- The full support of Fidelity PBS solver by Cadence, with optimum mesh quality, solver case setup, execution and monitoring
- The integration of Fidelity AutoSeal by Cadence, with seamless and automatic watertight model generation

- The new supported analysis types in EPILYSIS, such as the Linear Buckling Analysis (SOL105)
- The coupling of SPH Solver with Structural Analysis (e.g. EPILYSIS), as well as with CFD Solvers (e.g. Fidelity PBS Solver)
- The latest Safety protocols, now supported in ANSA & META, along with noteworthy enhancements regarding HBMs
- The direct communication of KOMVOS with Teamcenter for the search and download of Product Structures and CAD files
- The targeted implementations towards a more streamlined installation and maintenance of SPDRM multi-site deployment
- The integrated Modal Superposition in FATIQ
- The promising data handling and visualization enhancements with ANSERS

A constantly uplifted User Experience, through the revamped User Interface in ANSA & META

The promising redesign of ANSA & META, previously introduced in v25.0.0, is gaining ground in the new version, with even more additions and enhancements.

In ANSA, the new Aeroelasticity ribbon expedites the setup and simulation of an aerodynamic model, whereas in META, the new Data Management ribbon facilitates the addition of Reports (KeyValues, Curves, Plots, Metadb Project, etc.) on the selected object id of the connected DM.

Numerous other implementations have added more value to the elevated User Productivity:

In ANSA, the Solver Job Monitoring with entity links is a Solve window that creates links to entities for the reported errors/warnings/info, with extra functionality under the context menu of DBB list.

In addition, through the Solver Job Logs, you can load and compare multiple Logs and can proceed with simultaneous Job monitoring.

Lastly, through the Clipboard tool, you may copy any entity of the model, for further use and export, either as .ansa or solver file.

In META, HTML 3D has undergone numerous enhancements, such as the significant speed up of animation performance for big models, the export of simplified models, the adjusted accuracy for better performance, as well as the support of multiple models and results.

Furthermore, thanks to the ODB Diagnostics tool, you can now assess the contents, status and potential issues of a loaded ODB file.

Leveraging pre-processing tasks in ANSA

Along with the revamped, unified approach in tasks' workflow and execution from pre- to post-processing, both ANSA & META come with enriched functionality and upgraded performance.

Moving on to structural meshing, a new meshing algorithm aligns the mesh flow on the isoparametric curves of the underlying surface, parts can be automatically connected with

merging of flanges and shells can be grouped per Plane, Elevation and Section. Furthermore, a new tool, called Stack Mesh generation, automatically creates HEXA/PENTA solids in parts with one extrusion direction.

Focusing on middle mesh generation and results, an automatic, rapid and precise update of the selected middle mesh area enhances the results' quality, whereas you can now compare the new 3D design with the existing FE middle mesh, not associated with geometry, and then generate middle mesh only on areas with differences.

In the related Modular Environment functionality, the Intermodular Connectors allow for the introduction of Connector Representation Templates for template-driven Connector setup. Thanks to the Simulation Configuration for NVH analyses, Simulation Models can now support different Connector Representations for the same Connector, enabling appropriate tuning for different Loadcases. Easy fixture of Subsystems for different Simulations and "what-if" analyses through the new Grounding adaptation in Simulation can take place. And due to LS-DYNA Substructuring, *INTERFACE_LINKING_FILE can now be defined by making a reference to existing data in DM.

Extended capabilities also arise in the Assembly area, specifically in Navigate Connections; not only can you navigate per connection, apply new checks/attributes and record auto/manual changes, but you may also navigate per part, approve or reject model's parts, show symmetric parts and create reports.

In the Crash & Safety area, several noteworthy enhancements have taken place regarding HBMs. In specific, the Human Body Model Scaling tool produces Human Body Model variants, based on anthropometric data. A universal HBM metadata format has been established, which is a universal approach to the Human Body Model metadata file format that simplifies the file structure and further enhances their compatibility between different HBMs. Lastly, the HBM Landmark Positioning tool automates and optimizes Human Body Model positioning by aligning initial landmarks to target ones.

In the Durability domain, with the Sketch 2D in Cross Sections Tool, you may define constraints, set and parametrize cross section's dimensions. An automatic calculation of 3D geometrical dimensions on bolt connection entities can derive from Feature Manager. You may also visualize contact's tied status for Abaqus; in specific, check model contacts and review the tied status with a fringe plot and retrieve tied status from Abaqus datacheck results or calculate it in ANSA. Lastly, an enhanced tied contact inspection for Abaqus is available, through a new draw mode to review tied status of secondary nodes. Additionally, you can visualize node adjustments for Abaqus; in other words, review and apply node adjustments retrieved from solver output check.

Several enhancements in the NVH field have been introduced, specifically regarding Statistical Energy Analysis (SEA), such as the implementation of a dedicated Loadcase Setup Assistant for SEA, along with the calculation and visualization of SEA results.

Some of the highlights in Design and Morphing are the connection definition in Members, where you can define spot-welds or spot-lines along the new member's flanges, and the SubD

Surface Deviation, where you may automatically fit SubD to its reference or to a user-defined surface.

Moreover, the Optimization Tool comes with further updates and upgrades. For instance, the support of Mixed Integer Programming in Optimization algorithms leads to discrete values optimization in Differential Evolution, Simulated Annealing, NSGA-II. Nelder-Mead optimization algorithm has been implemented and the Student Chart in the Optimization tool Results explores the importance of each Design Variable performing a t-test on the available experiments.

New analysis types in EPILYSIS

Several noteworthy upgrades come with the release of v25.1.0, with regards to dedicated analysis types.

In specific, Linear Buckling Analysis (SOL105), Equivalent Radiated Power Panel Participation Factor Output Request, as well as Topography Optimization through the BEADVAR entry, are all supported in the new version.

Boosted user productivity and further implementations in META

The brand-new version comes with numerous enhancements in a wide range of domains.

Fast and efficient flow field visualization on large CFD models can now take place, through projected type LIC on Cut Planes.

Cut Planes for IGA elements have been implemented, enabling the creation of cross sections on such elements.

Focusing on Crash & Safety, C-NCAP 2024 Far Side Impact VTC is now supported, along with IIHS SORB 2024 (v4), IIHS MODB 2024 (v2), C-NCAP 2024, C-IASI 2023, AEP-55 STANAG 4569 and rating calculation and reporting of Whiplash tests for Euro NCAP, C-NCAP, KNCAP, JNCAP.

In the NVH field, "what-if" studies can now be conducted for different FRF Assembly configurations, along with the comparison of response results, through multiple FRF Assembly scenarios. Simplified modal superposition for Driving Point and Transfer Functions calculations can take place easily and fast through Model Transfer Functions, elevating user experience. Focusing on acoustics, you can also listen to different acoustic pressure results and highlight the corresponding curves.

Last but not least, Modeshapes animation for ADAMS in Multibody Dynamics is now available providing better insight of results of an MBD analysis.

From CAD to CAE through KOMVOS

The new version comes with an interactive CAE structure creation; it offers a new arrangement for the CAE Structure preview, where the CAE model Structure is displayed side-by-side with the JT viewer, allowing visualization of the model per Subsystem and quick identification of unclassified parts.

Moreover, the direct communication with Teamcenter for the search and download of Product Structures and CAD files, takes the CAD to CAE process to the next level.

Increased robustness and productivity with SPDRM

Towards a more streamlined installation and maintenance of SPDRM multi-site deployments, this version introduces a new mechanism for the creation and maintenance of remote sites. Now the System Administrator of remote sites downloads the required packages straight from the SPDRM Admin web page. These packages are pre-configured for the remote site of interest, minimizing administration effort and the susceptibility to human errors.

In the area of HPC Submission and job monitoring, the Job Monitoring Assistant (JMA) microservice is introduced, that offers better performance comparing to the previous implementation, an out-of-the-box integration with Slurm Workload Manager through an SSH connection and easier troubleshooting with the in-built error notification mechanism.

Remarkable improvements have taken place in the deletion mechanism that now supports top-down deletion (i.e. deleting a Simulation Run along with all its contents) and delivers its results faster than ever before.

Furthermore, a noteworthy update in multi-site data sharing capabilities enables the "push" of data from the site they were produced to selected target sites, eliminating unnecessary wait times for users in target sites. This on-demand data sharing option is available through KOMVOS and the DM Browser in ANSA and META, as well as through Python script and REST APIs.

Modal Superposition and enhanced Calculation Methods with FATIQ

One of the highlights that stand out in the new version, is the integration of Modal Response in the workflow of Frequency domain and of Time domain S-N and ϵ -N Analysis.

Furthermore, more calculation methods have come to light.

For instance, the Sines algorithm has been introduced, applied automatically in case loading is deterministic in frequency domain applications.

In addition, the fatigue cycles of a duty cycle can now be defined by using stress states from the FE analysis as peaks and valleys.

Improved 3d model viewing, sharing of dashlets and many other data handling and visualization enhancements with ANSERS

This new release comes with significant speed-up of the animation performance in the integrated HTML 3d viewer and the capability to display multiple models in it.

Powerful new capabilities have been introduced, like sharing dashlets with the currently displayed data and working with multiple open dashlets at the same time.

Other important general enhancements include the ability to edit colors used in dashlets for specific simulation models or runs and store that assignment.

New panel visualization types have been added like histogram bar charts, radar charts and panels to add free text and links to other dashlets.

Additionally, existing panels were enhanced with new options such as adding background images to charts, full screen mode, quick one-click synchronization and option to download their currently displayed items.

Moreover, the latest additions regarding sources of data refer to the import data from .xlsx files and filebased DM connections with integrated authorization.

Foam analysis in RETOMO

RETOMO can now process computed tomography (CT) scans of complex cellular foam structures. Powerful algorithms detect, segment and analyze the characteristics of every cell. Foam wall mid-surface mesh with thickness info may be automatically generated and exported, eliminating cumbersome processing in pre-processors.

DXC Technology's AI Impact Helps Customers Across Industries Innovate with AI

6 January 2024

DXC Technology, a leading Fortune 500 global technology services provider, announced AI Impact, an approach designed to help solve customers' most pressing challenges. By combining DXC consulting, engineering and secure enterprise services, DXC will help clients across industries securely innovate and drive real business outcomes with AI.

DXC takes a pragmatic approach to AI by focusing on developing solutions that solve real world challenges and support business growth. With DXC's AI Impact, customers benefit from DXC's vast industry expertise and technology experience to build solutions, services and experiences together that will deliver real business outcomes using the latest technology innovation.

"AI has already captured the attention and imagination of industries everywhere. From AI agents to autonomous driving and personalized medicine, companies are taking steps to unlock value from AI, which promises to reshape our world," said Howard Boville, EVP, Consulting & Engineering Services – Powered by AI. "With DXC's AI Impact approach, we are helping to push the boundaries of what AI makes possible, guided by our team of consulting, engineering and technology experts to address our clients' most pressing challenges."

Customers across industries are leveraging AI Impact, including:

- **Automotive:** DXC is helping customers leverage AI-powered diagnostic tools to make it easier for automotive manufacturers and service providers to identify potential issues before they become critical, reducing downtime and maintenance costs. DXC is also helping customers leverage AI to personalize every aspect of a vehicle, including personal assistants that learn a driver's preferences and habits over time to make more intuitive recommendations.
- **Public Sector:** To provide more transparency, governments are using DXC AI Impact to efficiently engage with citizens and make it easier for them to access public services.

This includes the use of AI Agents and AI enhanced processes that streamline and simplify tax, national lending and even public healthcare processes.

- **Financial Services and Insurance:** DXC is helping customers optimize operations, from underwriting and risk assessment to claims processing and customer service. By working with DXC, financial institutions are leveraging chatbots to make it easy for human agents to respond faster and more accurately to customer inquiries by analyzing thousands of documents in minutes with Generative AI.
- **Healthcare:** DXC implemented an AI-powered app to help measure patient symptoms in real-time, analyzing data to provide clinicians with insights that enable more accurate diagnoses and treatment plans, improving the quality of care and proactively addressing prescription resistance.

Hexagon ramps up ADAS software innovation with cloud-native quality test automation solution

8 January 2025

Hexagon's Manufacturing Intelligence division introduces a new cloud-native solution to test, train, and validate Advanced Driver-Assistance Systems (ADAS) and autonomous vehicle systems. Utilising hyperscale computing and automation, Virtual Test Drive X (VTDx) enables the automotive industry to validate the quality and function of software against thousands of real-world scenarios automatically, accelerating the time to market for safe mobility innovations.

Software plays an increasing role in vehicle design, enabling innovations that deliver convenience and safety for customers, but today's software-defined vehicles (SDVs) are putting more pressure on the automotive teams delivering ADAS features. As vehicles integrate more sensors, adopt advanced chips and operating systems and apply increasingly complex AI and software algorithms, software development and testing create bottlenecks that delay vehicle launches and feature deployment. Safety and compliance is paramount, but the business impact is also tangible – underperforming ADAS features frustrate customers and vehicle recalls significantly impact brand loyalty and profits.

Ensuring the quality and safety of ADAS software developments is very cost and time intensive, but critical because the cost of fixing defects when a vehicle is ready for production is fifteen times greater*. VTDx addresses these challenges with a comprehensive consumption-based service that makes it easier to scale up virtual prototyping and mitigate the delays, high-cost, and safety risks associated with physical testing. The Software as a Service (SaaS) is built from the bottom up to utilise the cloud computing power and automation of Hexagon's Nexus digital reality platform, enabling software teams can build rigorous testing into their continuous test and integration workflows for ADAS and autonomous vehicle systems.

From an intuitive web interface, ADAS engineers can easily create and configure their system under test (SUT) such as ADAS algorithms. They can validate their SUT with highly accurate physics-based simulations from Hexagon's environment simulation engine that leverages its 15

years of domain expertise. When developers run a test, VTDx executes the OpenDRIVE and OpenSCENARIO standard compliant software-in-the-loop (SIL) test programmes. By orchestrating tens or thousands of simulations of – as many scenarios as needed – automatically and simultaneously, companies can significantly reduce delays in configuration and computing time for their standardised SIL test programmes.

VTDx addresses the dramatic change in ADAS as electrical/electronic (E/E) architectures are centralised and regulations become more stringent. It enables new SDV testing strategies that align with modern software development practices and embeds vital physical safety testing practices that are unique to the ADAS component of the vehicle codebase. Its high-productivity, highly scalable code test and integration approach provides:

- **Continuous integration and continuous testing (CI/CT):** Enables continuous development, integration, and testing, allowing for faster software iterations and releases.
- **Seamless workflow integration:** Easily integrates with existing ADAS development toolchains, embedding into existing customer workflows with modern, well-defined APIs and open environment simulation standards.
- **Ease of use:** Intuitive configurations of sensors and test scenarios with user-friendly operation.
- **Scalability:** Supports parallel scenario execution and real-time collaboration among global teams, making it scalable for various ADAS development needs.
- **Cloud availability:** Available as a public or private SaaS, VTDx can be easily deployed by small and large organizations with consumption-based pricing and 24-7 availability.
- **Accessibility:** Users can share a project with globally-spread team members, making scenario setups and results available in real-time through an intuitive web-based user experience.

Available publicly for the first time today, VTDx has been well received throughout Hexagon’s automotive OEM and Tier one customer base for its intuitive high-productivity user experience, hands-off automation of thousands of code-test simulations and the provision of consumption-based pricing. It was developed in close collaboration with the Microsoft Azure team, realizes photorealistic visualization via the Unreal Engine, and provides full support for the ASAM-maintained OpenSCENARIO and OpenDRIVE standards.

“We embarked on a journey to build our cloud-based ADAS simulation software from the ground up with CI/CT processes in mind, addressing the software development challenges our automotive customers face today. Whether aiming to increase test coverage, shorten test cycles, or automate workflows, our VTDx solution offers significant benefits.” said Mahesh Kailasam, General Manager at Hexagon’s Manufacturing Intelligence division.

VTDx enables automakers to rigorously test and validate their ADAS and autonomous vehicle systems in a SIL environment, ensuring safety and performance. It is available as a public SaaS

with consumption-based pricing on Nexus from today, with private cloud deployments available on request.

Introducing Neural Sim: AI-Powered Simulator for Next-Generation ADAS and AD

6 January 2025

We are announcing the release of Applied Intuition's Neural Sim, an AI-powered simulator that provides scalable, realistic, and controllable closed-loop simulation for next-generation advanced driver-assistance systems (ADAS) and automated driving (AD). With Neural Sim, teams can accelerate development by rapidly transforming drive logs into virtual scenarios using automated AI pipelines.

Challenges

Complexity is the key technical challenge for next-generation ADAS and AD. These systems require intricate features such as automated lane change and traffic jam assist. They deploy to diverse operational design domains (ODDs), including highway and urban environments. Additionally, the issue of liability can be complex, with the original equipment manufacturer (OEM)—not the driver—assuming responsibility in certain conditions. To handle these compounding complexities, OEMs rely increasingly on machine learning (ML) methods for perception, behaviors, and end-to-end systems. However, these next-generation systems require next-generation tools.

Existing log playback and re-simulation approaches scale well and offer perfect realism for open-loop evaluation. However, they do not support closed-loop sensor-level simulation because any significant pose divergence—the difference between simulated pose and logged pose— invalidates the sensor data.

Existing synthetic simulation methods, on the other hand, support closed-loop simulation, with fine-grained controls and the ability to create environments that might not have been encountered frequently in the real world. However, procedural generation of detailed 3D environments requires manual effort and time.

Both log re-simulation and synthetic simulation are used to develop production ADAS and AD systems today, but there is a need for a more scalable closed-loop simulator designed for end-to-end systems.

Applied Intuition's Solution

Neural Sim is an AI-powered simulator that combines the scale and realism of log data with the controllability and efficiency of virtual testing, giving autonomy engineers multiple benefits.

Develop end-to-end ADAS with closed-loop simulation at scale

Neural Sim allows autonomy engineers to run simulations at the sensor-level, meaning engineers can generate data from camera, lidar, and other sensors. Moreover, it enables closed-loop simulation where the system under test can modify the ego pose, and the simulator will render valid sensor data. Finally, Neural Sim does this at scale by generating virtual worlds

from drive logs. The result is the large-scale and high-throughput closed-loop simulation required for end-to-end ADAS.

Accelerate development with automated AI pipelines

Neural Sim also enables development teams to operate rapidly and efficiently. Neural Sim uses automated pipelines to rapidly transform drive logs into neural reconstructions in hours, not weeks. Moreover, because of this automation, development is efficient and does not bottleneck on teams of technical artists who are creating environments and worlds manually. Instead, teams can integrate neural simulation scenario extraction as an automated process during drive ingestion and triage. The result is faster development with simulation that scales as a function of drive data collected.

Reduce on-road testing with realistic sensor simulation

Neural Sim is critical not only for development, but also for testing and validation. Current methods often require on-road testing for end-to-end systems and integration of modules like perception and planning, an approach that can delay detection of issues. Neural Sim enables validation engineers to “shift left” by moving testing from on-road scenarios to neural simulations. The result is earlier testing, higher quality ADAS, and, ultimately, safer vehicles.

Keysight Expands Novus Portfolio with Compact Automotive Software Defined Vehicle Test Solution

7 January 2025

Keysight Technologies, Inc. announces the expansion of its Novus portfolio with the Novus mini automotive, a quiet small form-factor pluggable (SFP) network test platform that addresses the needs of automotive network engineers as they deploy software-defined vehicles (SDV).

Keysight is expanding the capability of the Novus platform by offering a next-generation vehicle interface that includes 10BASE-T1S, and multi-gigabyte BASE-T1 support for 100 megabytes per second, 2.5 gigabits per second (Gbit/s), 5Gbit/s, and 10Gbit/s. Keysight’s SFP architecture provides a flexible platform to mix and match speeds for each port with modules plugging into existing cards rather than requiring a separate card, as many current test solutions necessitate.

As vehicles move to zonal architectures, connected devices are a critical operational component. As a result, any system failures caused by connectivity and network issues can impact safety and potentially create life-threatening situations. To mitigate this risk, engineers must thoroughly test the conformance and performance of every system element before deploying them.

Key benefits of the Novus mini automotive platform include:

- **Streamlines testing** – The combined solution offers both traffic generation and protocol testing on one platform. With both functions on a single platform, engineers can optimize the testing process, save time, and simplify workflows without requiring multiple tools. It also accelerates troubleshooting and facilitates efficient remediation of issues.

- **Helps lower costs and simplify wiring** – Supports native automotive interfaces BASE-T1 and BASE-T1S that help lower costs and simplify wiring for automotive manufacturers, reducing the amount of required cabling and connectors. BASE-T1 and BASE-T1S offer a scalable and flexible single-pair Ethernet solution that can adapt to different vehicle models and configurations. These interfaces support higher data rates compared to traditional automotive communication protocols for faster, more efficient data transmission as vehicles become more connected.
- **Compact, quiet, and affordable** – Features the smallest footprint in the industry with outstanding cost per port, and ultra-quiet, fan-less operation.
- **Validates layers 2–7 in complex automotive networks** – Provides comprehensive performance and conformance testing that covers everything from data link and network protocols to transport, session, presentation, and application layers. Validating the interoperability of disparate components across layers is necessary in complex automotive networks where multiple systems must seamlessly work together.
- **Protects networks from unauthorized access** – Supports full line rate and automated conformance testing for TSN 802.1AS 2011/2020, 802.1Qbv, 802.1Qav, 802.1CB, and 802.1Qci. The platform tests critical timing standards for automotive networking, as precise timing and synchronization are crucial for the reliable and safe operation of ADAS and autonomous vehicle technologies. Standards like 802.1Qci help protect networks from unauthorized access and faulty or unsecure devices.

Ram Periakaruppan, Vice President and General Manager, Network Test & Security Solutions, Keysight, said: "The Novus mini automotive provides real-world validation and automated conformance testing for the next generation of software defined vehicles. Our customers must trust that their products consistently meet quality standards and comply with regulatory requirements to avoid costly fines and penalties. The Novus mini allows us to deliver this confident assurance with a compact, integrated network test solution that can keep pace with constant innovation."

Keysight Launches All-In-One Solution for Network Visibility and Security

9 January 2025

Keysight Technologies, Inc. launched AppFusion, a network visibility partner program that integrates third-party security and monitoring solutions directly into its network packet brokers. The program integrates market-leading technologies from Forescout, Instrumentix, and Nozomi Networks, enabling customers to streamline network and security operations (NetOps/SecOps) while significantly reducing infrastructure costs. This all-in-one, multi-vendor solution helps IT professionals reduce capital and operational expenses while improving security monitoring and performance.

Enterprise IT and security operations (SecOps) teams need real-time network traffic monitoring to troubleshoot performance issues, detect cyber threats, and maintain operational scale and compliance. Traditionally, this required separate hardware appliances, each running different

monitoring tools. Keysight's Vision Network Packet Brokers eliminate this complexity by integrating partner software directly into a single hardware platform.

Key benefits of AppFusion include:

- Significant reduction in hardware costs by consolidating multiple servers into one Vision appliance.
- Simplified deployment with pre-integrated, best-in-class security solutions.
- Centralized management through a single interface for all monitoring tools.
- Easy scalability with on-demand activation of additional monitoring capabilities.

"The more technology providers integrate and deliver complete solutions, the less time IT and security teams need to spend configuring and managing performance and security," says Recep Ozdag, Vice President and General Manager, Network Visibility Solutions at Keysight. "Our new partner integration program fuses network visibility and monitoring in a new way to streamline deployment of complete, cost-efficient monitoring solutions for real-time threat detection and troubleshooting of performance issues."

Initial AppFusion integrations include:

- Forescout platform with eyeInspect security monitoring technology.
- Instrumentix xMetrics® trade flow performance monitoring and analytics software.
- Nozomi Networks' AI-powered security and risk management solutions.

"Forescout has a long history of providing market-leading OT solutions to the most security-conscious organizations in the world. We're extremely pleased to partner with Keysight on their AppFusion program," says Rob McNutt, Chief Strategy Officer at Forescout. "Deploying the Forescout Platform within a visibility fabric delivers an unparalleled and comprehensive view that reduces blind spots and monitoring bottlenecks to fortify security across IT, operational technology (OT), internet of things (IoT), and internet of medical things (IOMT) environments."

As with OT and IoT environments, the financial markets sector benefits from tightly integrated visibility and monitoring solutions. "Time is money in financial markets, where nanoseconds of delay can impact the value of trades," says Clive Posselt, Commercial Director at Instrumentix, a newly announced Keysight alliance partner. "Delivering our xMetrics® trade flow monitoring software onboard a Keysight visibility appliance can provide the buy and sell side, as well as exchanges and other liquidity venues, real-time access to the most reliable trade plant performance data, so they can optimize execution outcomes and differentiate their services."

Chet Namboodri, Nozomi Networks Senior Vice President of Global Business Development, concurs: "Cyber-physical systems in enterprise and industrial environments require equal and, in many cases, higher performance levels for security monitoring and risk management than traditional IT networks. Integrating Nozomi Networks' AI-powered security and risk management solutions with Keysight appliances saves customers time and money while achieving the most reliable, innovative, and highest caliber of threat monitoring and risk management available for OT, IoT, and cyber-physical systems."

Propel Software Launches 'Product Spotlight' - Delivering Enriched Product Data Across Salesforce Manufacturing, Sales, and Service Clouds

8 January 2025

Propel Software, creator of the first product value management (PVM) platform that transforms how businesses create, sell, and service products, announces the launch of Product Spotlight, enabling Salesforce customers to grow sales and improve customer relationships with streamlined access to enriched product information. Product Spotlight will be featured at the Salesforce Manufacturing Summit on January 15 in Atlanta during an on-stage presentation with Propel customer, Girtz Industries.

Product Spotlight provides Salesforce users with detailed and contextual product information within the Salesforce applications they use every day. Efficient real-time access to the latest product information across the product lifecycle speeds decision making and unlocks business value to enhance sales, customer interactions, and field service operations. Propel's Product Spotlight makes this live data available without complicated integrations or duplication of data.

Visibility Unlocks Value Across Salesforce Clouds:

- **Upsell and cross sell opportunities with related products.** Centralized product data makes it easy for sales reps to obtain accurate information every time. Enriched content includes the status of engineer-to-order products; allows related accessories to be included in quotes to drive upsells; and enables access to specifications for product setup and activation.
- **Faster customer issue resolution.** Customer support gains timely access to accurate product details, including supporting documents, assembly instructions, maintenance guides, and user manuals. Viewing quality issues, recall details, stop ship information, variants, and related accessories speeds resolution time.
- **Expedited field service.** Easily available product information allows field engineers to review assembly instructions, maintenance guides, and user manuals on site. Service engineers can view design files, field-replaceable units from engineering, and gather quality reports and remediation information.

"Having product data on one platform across sales, finance, and engineering has driven greater efficiency and profit across our business. Combining Propel with our Rootstock enterprise resource planning (ERP) and Salesforce customer relationship management (CRM) system has resulted in 25% faster change orders, enabling us to focus on building innovative products," said Luke Grube, senior systems administrator at Girtz Industries. "We're excited to see how Product Spotlight can further improve our operations by giving each role – sales, service, support – the right 'product lens' to view the information that matters most for their job. This could help us further grow our business and deliver an exceptional experience to our customers."

"Propel is the only single platform solution that enables a continuous product thread, linking connected items to SKUs and to serialized assets. In this way, we infuse Salesforce objects with

detailed product information contextualized for each role. This allows companies to grow sales, streamline support, and deliver highly-effective service,” said Eric Schrader, CPO of Propel. “Product Spotlight completely changes how companies work - making smart decisions swift and easy with access to real-time product information directly within Sales, Service, and Manufacturing Clouds.”

RISE with SAP on IBM Power Virtual Server to Help Accelerate Transformation with SAP S/4HANA Cloud

7 January 2025

IBM and SAP SE announced the upcoming release of RISE with SAP on IBM Power Virtual Server, designed to help make it the fastest and easiest path for IBM Power customers to accelerate their ERP transformation.

Together, SAP and IBM aim to help organizations more seamlessly transition and modernize their on-premises ERP environments to the cloud and support AI-powered business processes.

RISE with SAP is a guided journey delivering outcome-driven services, cloud ERP and platforms to help organizations rethink their operating model. As a new SAP hyperscaler offering, RISE with SAP on IBM Power Virtual Server can help reduce risk and improve SAP S/4HANA Cloud migration time from IBM Power Systems on-premises to cloud within 90 days.*

“RISE with SAP has emerged as a business priority for enterprises across all industries as they move to SAP S/4HANA Cloud,” said Anurag Agrawal, Founder and Chief Global Analyst, TechAisle. “The new offering from IBM and SAP promises to be a compelling option for businesses looking to migrate their mission-critical ERP workloads securely, quickly and with minimal disruption.”

Cloud Migration Enabled by Industry-Leading SAP Certified Infrastructure

Using IBM Power Virtual Server, the cloud-based version of the mission-critical IBM Power server platform used for on-premises ERP, customers can more rapidly transform on-premises SAP ERP systems on cloud, modernize business processes and become more agile. Known for its high security, scalability and reliability, IBM Power servers are ranked #1 in availability among SAP-certified infrastructure**, engineered for fewer disruptions and faster migration, supported by the highly resilient and secured IBM Cloud platform.

“IBM has worked hand-in-hand with SAP to provide a seamless and fast migration path for customers that rely on the IBM Power platform for their SAP workloads and applications,” said Rob Thomas, Senior Vice President, Software and Chief Commercial Officer, IBM. “This new capability helps reduce the complexity of moving to the cloud and accelerates impact, benefits we experienced firsthand in our own modernization journey using RISE with SAP.”

IBM Completes Global SAP S/4HANA Cloud Modernization Using RISE with SAP

IBM has deep expertise with SAP S/4HANA Cloud modernization and managed services projects. In one of the largest and most complex SAP S/4HANA Cloud modernization projects of

any SAP customer to date, according to SAP, IBM recently moved its quote-to-cash and record-to-report processes to RISE with SAP on IBM Power Virtual Server.

The IBM project touched more than 150,000 users across 175 countries in 18 months. During this time, it resulted in a 30% reduction in infrastructure costs and related operations by rationalizing overall server and data footprint and increasing process automation.† IBM Consulting led this transformation work end-to-end, providing the technical services, implementation and application management services expertise required to help securely move and run these complex solutions.

“SAP is helping organizations run their best through cloud-based enterprise applications embedded with the power of SAP Business AI,” said Thomas Saueressig, member of the Executive Board of SAP SE. “This announcement is yet another milestone in SAP’s long-term partnership with IBM, offering our joint customers a clear path to the cloud designed for faster time-to-value, increased flexibility, and continuous innovation.”

IBM Consulting and Ecosystem of Partners to Help Accelerate Transformation

Customers will also be able to accelerate transformation with SAP S/4HANA Cloud by working with IBM Consulting or any other SAP partner. To give clients choice, IBM is also in the process of working with other global systems integrators and services partners to architect, deploy and migrate RISE with SAP projects.

The two companies, along with an ecosystem of partners, intend to work together to help IBM customers transform through RISE with SAP on IBM Power Virtual Server with combined solutions, capabilities and joint go-to-market efforts. RISE with SAP on IBM Power Virtual Server customers and IBM Business Partners will also have access to a new IBM Transformation Suite for SAP Applications to help begin the migration to SAP S/4HANA Cloud and RISE with SAP. It will include a bundle of best-of-breed software and services for the assessment of current environments, data migration and automated testing.

More than 10,000 SAP customers over 50 years have used IBM to deliver and run SAP solutions on IBM systems. IBM is a full lifecycle strategic partner of SAP, providing end-to-end consulting and technology solutions for SAP customers, including hybrid cloud, automation and generative AI with watsonx.

RISE with SAP on IBM Power Virtual Server is planned to be available in second quarter of 2025, along with a customized investment program from IBM. Customers can learn more here to begin planning for their transformation using assessment and migration services from IBM Consulting and other IBM and SAP Business Partners.

Siemens and Sony deliver breakthrough Immersive Engineering for the industrial metaverse

7 January 2025

Siemens Digital Industries Software, in collaboration with Sony Corporation, announced today that it is delivering on its next-generation immersive engineering roadmap that brings together

Siemens' NX software for product engineering with Sony's breakthrough head-mounted display (HMD) to enable the industrial metaverse.

The XR HMD (SRH-S1) features Sony's high-definition 1.3-type OLED Microdisplays with 4K resolution, and its proprietary rendering technology enables real-time, high-definition and realistic rendering of 3D objects. It also has a pair of controllers optimized for intuitive interaction with 3D objects and precise pointing. The head-mounted display is also optimized for extended creative use, designed with comfort and stability in mind.

"We embarked on this collaborative project with Sony to deliver the power of the industrial metaverse to our community of designers, engineers and manufacturers directly in our flagship product engineering software," said Bob Haubrock, senior vice president, Product Engineering Software, Siemens Digital Industries Software. "After previewing the HMD at CES last year, our collective teams have built a set of tools that revolutionize how mixed reality is used in the engineering space - to not only support global collaboration based on high-fidelity 3D models, but to enable co-creation directly on vital 3D CAD data in a managed, secure environment. Today, we are making this next generation set of technologies available to our customers."

"Since announcing our collaboration with Siemens at CES 2024, we've had opportunities to get direct feedback from Siemens' customers about the technology, and as Siemens' NX users ourselves, we were excited that many of them share our enthusiasm for the potential of Immersive Engineering," said Seiya Amatatsu, Incubation Center, XR Technology Development Division, Sony Corporation.

"Siemens' Immersive Engineering technology helps our designers and engineers see, design and edit parts more easily with the unique controllers, enable our customers to experience their car at human-scale before it is built and help stakeholders from production easily collaborate with designers and engineers to validate parts before manufacturing," said Ian Briggs, Founder and Head of Design, Briggs Automotive Company (BAC).

Siemens' Immersive Engineering toolset brings the power of mixed reality to the product engineering and manufacturing community, enabling high-fidelity mixed reality and 3D-focused collaboration. Siemens' Immersive Engineering solutions include:

NX™ Immersive Explorer: A headset-agnostic solution that designers and engineers use to conduct informal design reviews and collaborate using 3D CAD data derived from Siemens' NX software for product engineering.

NX™ Immersive Designer: Designed from the ground up to take advantage of the capabilities of Sony's HMD and creative controllers, NX Immersive Designer enables designers and engineers to interact, manipulate and collaborate around graphically rich 3D product models natively in NX, without the need for additional preparation or software. Using Sony's Ring and Pointer controllers for object interaction and precise 3D geometry manipulation, designers and engineers can interact directly with product prototypes, NX commands and menus.

NX Immersive Designer supports augmented, mixed reality environments to place virtual objects in the real world, conduct design sessions in a high-fidelity virtual design review space and/or through large scale, high-resolution virtual monitors to extend and supplement the

virtual design session. For even more efficient interaction, users can take advantage of NX Voice Command Assistant in the immersive environment to navigate multiple levels of menus and clicks with simple, easy-to-use spoken keywords.

NX Immersive Collaborator: NX Immersive Collaborator builds on the capabilities of NX Immersive Explorer and Designer to allow organizations of all sizes to take advantage of both co-located and remote design review with multiple participants. NX Immersive Collaborator requires Siemens' cloud-enabled NX X to host design collaboration and review sessions – participants can join using local VR or desktop view for broad collaboration options. Value-based licensing tokens are used for only hosting sessions, with participants able to join remotely for free.

Availability

NX Immersive Designer is available for all NX customers with the latest updates and through Siemens' value-based licensing. NX Immersive Collaborator will be available later this month with the NX X update and also through value-based licensing. The NX Immersive Engineering tools have been developed to exclusively work with Sony's HMD offering that include 4K OLED Microdisplays and dedicated controllers. The HMD with the controllers is needed for both NX Immersive Designer and Collaborator and is priced at \$4,750 and available for preorder now, with shipping expected to begin in February 2025.

Siemens to deliver photorealism-enhanced digital twin with NVIDIA Omniverse and Teamcenter Digital Reality Viewer

7 January 2025

Siemens Digital Industries Software announced Teamcenter® Digital Reality Viewer, a new software solution that brings the NVIDIA Omniverse platform and accelerated computing to Teamcenter, enabling high-quality, high-performance photorealistic visualization of large, complex datasets common in engineering and manufacturing.

Powered by NVIDIA Omniverse, Siemens' Teamcenter Digital Reality Viewer embeds high-performance, real-time ray tracing capabilities directly into Teamcenter. This enables companies to seamlessly visualize and interact with photorealistic, physics-based digital twins of their products, eliminating workflow waste and errors.

Benefits of bringing photorealism to Siemens' comprehensive digital twin

- **Enhanced realism:** Customers can now visualize and interact with photorealistic, physics-based digital twins of their products, providing greater insights and a deeper understanding of product designs.
- **Cost and time savings:** Adding photorealism to Siemens' digital twin technology helps eliminate the need for expensive physical prototypes and separate virtual environments, so customers can significantly reduce costs and accelerate time-to-market.

- **Seamless collaboration:** The secure, real-time collaboration capabilities within Teamcenter keep all stakeholders aligned and updated, helping ensure that everyone is working with the most current data.
- **Live 3D data interoperability and integration:** The integration of live 3D data means that product information is always synchronized, reducing errors and data discrepancies.
- **Streamlined decision-making:** All visualizations, discussions, and changes are tracked in Teamcenter, removing ambiguity and improving traceability.
- **Versatile use cases:** Teamcenter Digital Reality Viewer supports multiple stages of the product lifecycle, from design and engineering to sales and marketing, all within a unified platform.

Bringing scalable photorealism to PLM and the digital twin

Teamcenter Digital Reality Viewer combines the power of NVIDIA's visualization technology with Siemens' secure cloud infrastructure, integrating NVIDIA Omniverse for real-time ray tracing and NVIDIA accelerated computing to deliver on-demand compute capabilities. A centralized, cloud-based GPU cluster helps ensure consistent, high-performance visualization capabilities for all users. This cloud-based rendering-as-a-service architecture allows industry clients to focus on their specific tasks and use cases without the burden of managing hardware and software.

With Teamcenter Digital Reality Viewer, manufacturers can leverage their investment in a PLM digital thread backbone to incorporate realism into the multi-CAD data used for everyday visualization. This capability adds greater fidelity and context to digital twins, delivering a more immersive experience for design, review, and collaboration.

Tecsys Announces OrderDynamics® OMS Connector for Shopify to Enhance E-commerce Order Management and Fulfillment

7 January 2025

Tecsys Inc., a global leader in supply chain management solutions, announced the availability of its OrderDynamics® OMS connector for Shopify. This integration is designed to help Shopify merchants streamline their order management and fulfillment processes, enhancing inventory visibility, improving order routing and increasing fulfillment efficiency.

As e-commerce continues to grow, businesses need reliable solutions to manage orders and inventory. The OrderDynamics® connector integrates seamlessly with Shopify stores, providing real-time inventory updates across multiple fulfillment centers, warehouses and stores. This ensures businesses have up-to-date stock data, preventing overselling and stockouts and allowing for more accurate and timely deliveries.

“The OrderDynamics® connector for Shopify provides merchants with a practical solution to manage their order and inventory processes,” said Adam Krajewski, vice president of Retail at Tecsys. “By improving visibility and optimizing order routing, the integration supports Shopify

merchants in meeting customer expectations for fast and reliable delivery, while enhancing operational efficiency.”

Key benefits of the OrderDynamics® connector include real-time inventory synchronization, intelligent order routing to the nearest fulfillment center, and support for multi-location fulfillment. These features help reduce shipping costs, improve delivery times and ensure a more streamlined order fulfillment process.

Tecsys’ OrderDynamics® connector is designed to scale with growing businesses, providing a flexible solution that can accommodate increased order volumes. By improving visibility and optimizing fulfillment, the integration helps Shopify merchants better manage their operations and enhance their customer experience.

Prior to the connector being available on the Shopify App Store, the Tecsys and Shopify ecosystem has been delivering significant benefits to retailers. For example, Eclipse has experienced the advantages of this collaboration: "Our new digital ecosystem effectively combines the elegant Shopify front end with the sophisticated Tecsys order management orchestration back end, providing a scalable platform for efficient omnichannel commerce," said Genevieve Bulgin, director of Retail Operations at Eclipse Stores.

Zuken Vitech Unveils GENESYS 2024: Accelerating Systems Engineering with Advanced Capabilities

24 December 2024

Zuken Vitech, a global leader in systems engineering solutions, is excited to announce the release of GENESYS 2024, the latest iteration of its premier model-based systems engineering (MBSE) platform. This landmark release introduces significant advancements designed to enhance systems engineering practices, streamline workflows, and empower users with cutting-edge tools.

Key Features and Advancements in GENESYS 2024

GENESYS 2024 introduces robust support for the Unified Architecture Framework (UAF), enabling organizations to model, analyze, and manage complex systems within a standardized framework. This capability ensures seamless alignment with industry standards and facilitates interoperability across multidisciplinary teams.

The new release includes refined tools for project organization and classification, allowing users to better structure and manage their projects. These enhancements simplify navigation, improve traceability, and provide greater control over large-scale system models.

With a focus on extensibility, GENESYS 2024 debuts a versatile add-in framework that enables seamless integration of third-party extensions. This new capability empowers organizations to customize their GENESYS experience, adapt to specific workflows, and leverage external tools for maximum efficiency.

GENESYS 2024 delivers a host of usability and performance upgrades, including faster processing speeds, intuitive user interfaces, and streamlined workflows. These improvements enhance productivity and ensure a smooth, responsive experience for all users.

“GENESYS 2024 represents a significant step forward in the evolution of model-based systems engineering,” said Enrique Krajmalnik, President and CEO of Zuken Vitech. “With the introduction of support for UAF, enhanced organizational tools, and the flexibility of a new add-in framework, we are empowering our users to tackle complex engineering challenges with unprecedented ease and precision.”

Zuken Vitech remains committed to advancing the field of systems engineering through continuous innovation and collaboration with its global user community and partners. GENESYS 2024 is now available for purchase and upgrade.