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CIMdata News

Adapt and Extend PLM for Optimum Productivity - a CIMdata Commentary

22 October 2024

Mendix: Siemens low-code solution for tailoring product and production processes

Key Takeaways

- Businesses today struggle to adapt technology solutions to create tailored, highly productive working and operational environments—due to increasing product, process, supply-chain, development, production, and service complexity.
- Businesses need to easily be able to tailor their operational environments and reduce non-value-added activities while supporting diverse value chains by integrating data sources and supporting users with tailored, easy-to-use apps on their devices of choice.
- Siemens is applying its Mendix low-code solution throughout their Siemens Xcelerator portfolio to enable businesses to more easily and rapidly create the value chains they need to establish and maintain their market competitiveness.
- Mendix enables companies to improve their performance by simplifying employees' access to data, ensuring they can maximize the value they extract from that data, and extending that data to non-PLM users all via a low-code solution.

Introduction

Complexity in business is increasing across all areas, including multi-domain products, production, diverse supply chains, personalized sales, product as a service (PaaS), customer service, sustainability, and the circular economy. Manufacturers must manage these complexities while accurately handling their complete product definition and bills of materials (BOMs).[\[1\]](#)

Users throughout an enterprise can be overwhelmed by using multiple solutions for product-related information, each with a different user experience. This inconsistency adds time and introduces errors in managing the various data sets within a product's lifecycle.

Locating and accessing needed product-related data can be difficult and time-consuming, as information is often spread across multiple, distributed data repositories managed by different applications and departments. Integrating these systems can be resource intensive.

Businesses and users want adaptable applications and systems and the ability to create working environments tailored to their needs. They seek tools that help them maximize the value of their IT investments, allowing for easy data access and use, regardless of device or location. Personalizing these solutions ensures each user has a fit-for-purpose experience for their role and responsibilities.

Mendix: Adapt and Extend PLM Across the Product Lifecycle

Connecting Mendix

Connectors: Connectors are implemented as Mendix modules and used in app development to simplify connecting to existing third-party solutions or other Mendix applications, bringing low-code experience to map the data for use in applications.

Integration: Integration with other applications (other Mendix apps or applications built with different technology) can be done using REST, OData, GraphQL, SOAP/Web Services, or Business Events. Mendix can also import and export data using XML and JSON and supports integration with machine learning models.

REST Integration: In Mendix apps, the published REST services from 3rd-party solutions can be used. The REST Connector will abstract complexity, but users are expected to know how to use those APIs.

Mendix, a low-code application development platform, is a foundational part of Siemens Xcelerator portfolio. It enables professional programmers, citizen developers, subject matter experts, and business analysts to create or adapt and extend their business solutions and processes and create tailored user experiences with integrated workflows using a graphical drag and drop paradigm.

Mendix offers a versatile platform that empowers users to create intuitive user interfaces and tailored experiences. It seamlessly integrates both local and

remotely managed information, allowing for a cohesive flow of data. Users can aggregate, display, report, and update data in ways that enhance productivity, whether for an individual or the entire enterprise. This capability extends the reach of both Product Lifecycle Management (PLM) and non-PLM managed data, making it accessible and useful to non-PLM users as well as PLM users. By leveraging Mendix, organizations can ensure that their data is not only more accessible but also more effectively utilized, fostering a more productive and efficient working environment.

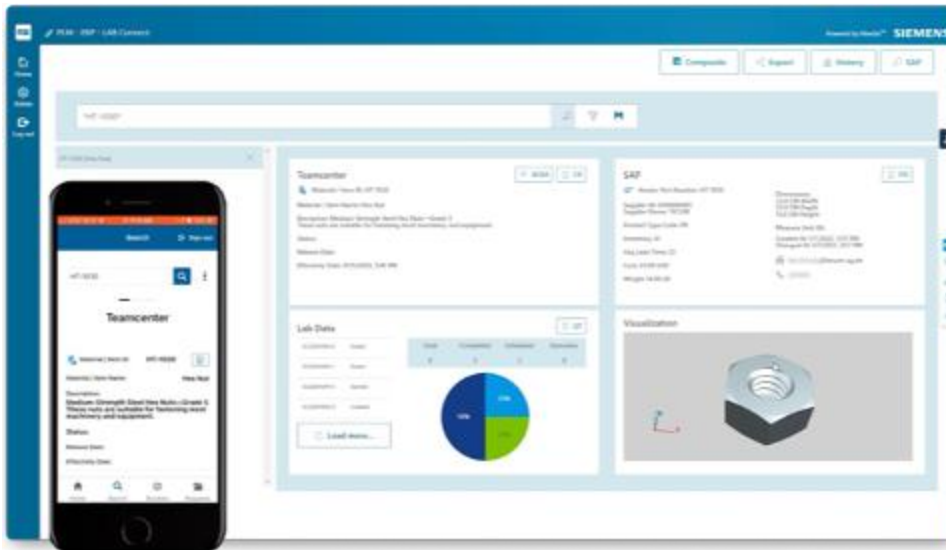


Figure 1—Mendix Application Combining Data from Teamcenter and SAP Illustrates Multi-Experience Capabilities (Courtesy of Siemens)

Mendix provides pre-defined connectors and integrations to both Siemens delivered and a wide range of third-party applications and solutions. Each of these solution approaches enables developers and individual users to adapt and extend a core application or solution to best meet users’ and organizations’ business functional requirements.

Within the context of Mendix, “adapting” means modifying the manner in which an application or system functions and/or delivers information to end users (or other systems). “Extending”

allows an application to automatically or manually search for, access, and combine data from various systems within an extended enterprise or value chain. Integration of data provides users with a comprehensive understanding of a product's definition or status, enabling them to make quicker, more informed decisions relevant to their roles and tasks.

Additionally, Mendix can be used to create UIs and user experiences tailored to roles and tasks. While Mendix is a Siemens product, it can be used by a company as a standalone low-code platform to adapt, extend, and tailor both in-house and third-party solutions.

Mendix in Siemens Xcelerator

Mendix technology is being used to expand integrations between Siemens solutions and many third-party solutions. This expansive use enables both Siemens and its customers to more easily adapt and extend their current technological environments to achieve maximum effectiveness and return on their investments in their extended enterprise development, production, and service environments.

Mendix is the tool used to adapt and/or extend the Siemens Xcelerator functionality and capabilities to businesses' unique requirements. It enables customers to create functionality to solve issues that may not be supported by a commercial or OOTB solution. Additionally, the Mendix marketplace is a portal that provides easy access to reusable components and complete solutions for app developers to use.

Siemens uses both connectors and integrations between Mendix and technology solutions to deliver the desired functionality. Connectors support the drag and drop or no code paradigm and integrations leverage a more traditional process. Both enable Siemens and their customers to adapt or extend solutions within the Siemens Xcelerator portfolio to enable needed flexibility.

As an example, the Teamcenter Extension sits inside Mendix and contains user interface elements, has access to the Teamcenter data model, and is used to generate low-code building blocks. It also generates the necessary logic and artifacts to build apps on mobile platforms. The Siemens Xcelerator portfolio uses integrations, connectors, and extensions to connect to the Mendix platform. CIMdata expects these capabilities to evolve over time and more and more of the portfolio will be exposed via extensions.

Mendix and Opcenter: An Example

Opcenter is the Siemens Xcelerator solution designed to support manufacturing operations management (MOM). Capabilities include planning and scheduling, quality, execution, reporting, and laboratory information management (LIMS). The Opcenter development team deeply integrated Mendix into the core solution. It exposes the diverse data model and provides UI and process management capabilities. It is a native method to add capabilities to Opcenter and enables customization and integration by customers.

Opcenter also comes with tailorable, adaptable low-code templates for persona-based, industry-specific, and process-centric solution creation. Some examples of industry or process or persona tailored Opcenter templates built with Mendix include:

- Operator Terminal for automotive
- Work Order Screen for complex and A&D manufacturing
- Production Operator Terminals for Process/CPG and Semiconductor manufacturing
- KPI view and Downtime Management

DAB Pumps, a long-term Siemens customer needed to replace the obsolete UI of their Opcenter-based production line MES solution. The requirements included maintaining the look and feel and functionality to minimize re-training and change management while minimizing development time and ensuring easy upgrades. Since the latest Opcenter release included Mendix embedded within its core, they chose to adopt it. According to Siemens, DAB Pumps was able to adapt the Opcenter templates to fit their corporate guidelines and reduced development effort by 30%. The new user experience resulted in improved user engagement and improved user satisfaction.

In a demonstration example Siemens showed a Mendix app that linked Teamcenter, SAP, and Opcenter for production of a dune buggy automotive product. The app extracted data from NX, Teamcenter, SAP, and Opcenter and combined and displayed it (including a 3D view) to support the manufacturing change process. Trying to create this specialized app using typical application development tools would be very difficult and time-consuming.

Conclusion

Manufacturers face increasing complexities in product, production, supply chain, and service areas. These challenges include diverse information repositories, multiple user experiences, and the need for integration across various domains like mechanical, electrical, and software. Companies require easy-to-use tools to adapt and expand their product development, production, and service solutions, providing comprehensive, user-tailored information. Siemens addresses these issues by incorporating Mendix into the Siemens Xcelerator portfolio. This enables companies to adapt, extend, and tailor their business processes using low-code technology and pre-defined application connectors, creating a more productive environment. Mendix is widely used to extend and tailor Teamcenter and Opcenter, often with SAP, optimizing information flow between critical solutions. Low-code solutions speed development and enable non-developers to create solutions that improve business performance.

CIMdata recommends that manufacturers consider Mendix for acquiring, adapting, extending, and personalizing their product lifecycle applications and systems.

[1] Research for this paper was partially supported by Siemens Digital Industries Software.

Acquisitions

Computer Guidance's Parent Company, JDM Technology Group, Acquires Degama Systems

21 October 2024

JDM Technology Group, a global leader in providing best in class ERP software solutions, has acquired Degama Systems, a prominent ERP software provider to the transportation industry. Degama was owned by Streamline Transportation Technologies and Tom Greenwood. The transaction closed on October 15th with approval from the owners.

Degama is a trusted provider of cloud based trucking management software to fleets across Canada and the United States. Its comprehensive ERP software helps mid-size and large trucking firms streamline accounting and operations for maximum efficiency.

“Like JDM, Degama was built on a foundation of strong customer relationships and a desire to help businesses work efficiently across their entire operation,” said Streamline CEO Mitchell Zulinick and Degama President Tom Greenwood in a joint statement on the transaction. “We believe Degama and its customers will see substantial benefits from this new ownership, which shares our commitment to customer satisfaction and long term growth.”

As a global company with more than 30 software businesses worldwide, JDM Technology Group has extensive software expertise and a global development team. The company is known for its people first approach and commitment to never “end of life” its software.

“We’re pleased to welcome Degama to the JDM team,” said CEO Jim McFarlane. “Acquiring Degama is part of our ongoing buy and build strategy. It strengthens our ERP portfolio and expands our ability to provide integrated, end to end solutions to our clients. We look forward to working with the Degama team to continue building on its long standing tradition of innovation.”

Degama Systems will continue to operate as its own brand. Tom Greenwood will assist with the transition.

Company News

Canvas GFX and Impresa Corp. Announce Teaming Agreement to Explore Joint Go-To-Market Opportunities

17 October 2024

Canvas GFX, the leading supplier of connected frontline worker software solutions to the manufacturing sector, and Impresa Corp., the specialist provider of Digital MRO (Maintenance, Repair, and Overhaul) solutions to the Aerospace and Defense industries, have announced a teaming agreement that will see the two firms explore joint go-to-market opportunities.

Both the Canvas Envision platform and the Impresa Digital MRO platform are deployed by customers that build, operate, and maintain complex assets and machinery. A primary use cases for Envision is the authoring, distribution, and consumption of interactive digital work instructions for MRO use cases, which is highly complementary to the Impresa enterprise software solution.

“Our partnership strategy is increasingly important as we look to deliver precisely targeted solutions for different market sectors,” said Patricial Hume, CEO of Canvas GFX. “The team behind Impresa have built a market-leading offering for the MRO environment and combined with the Envision platform we see a huge opportunity to connect frontline workers, data, and systems to create a true digital loop to drive efficiency and productivity in this critical space. We look forward to a strong and successful partnership.”

Graeme Taylor, COO of Impresa Corp. commented: “In the fast-paced world of MRO, delivering excellence in turnaround time is crucial. Teaming with Canvas GFX, providing visual processes and references at the point of use, we simplify and accelerate every step of the MRO process, ensuring data accuracy and global regulatory compliance.”

Capgemini announces leadership appointments

23 October 2024

Capgemini announced some key leadership appointments. Anirban Bose succeeds Jim Bailey as CEO of the Americas Strategic Business Unit, effective November 1. Consecutively, Kartik Ramakrishnan is appointed CEO of the Financial Services Strategic Business Unit. Jerome Simeon will become Chief Revenue Officer and Franck Greverie Chief Technology Officer, both from January 1, 2025. Following an outstanding 34-year long career at Capgemini, Olivier Sevilla, Chief Operating Officer, has decided to pursue new endeavors as an individual, and will leave the Group at the end of 2024. With his deep global experience and passion for digital transformation, Olivier will focus on promoting the techno-business ecosystem of European companies to help improve their competitiveness. The whole Capgemini team is looking forward to supporting Olivier in his next chapter.

“These appointments strengthen the Group’s growth ambition and reinforce Capgemini’s role as the go to business and technology partner for our clients. Anirban Bose has been at the helm of our Financial Services division for the last six years and instrumental in building and shaping this business across the globe. Anirban is well positioned to accelerate our trajectory in the Americas, building on our progress in the region over the past 4 years under the leadership of Jim Bailey. I would like to thank Jim for his many contributions to Capgemini.

Kartik Ramakrishnan, who has been running the Banking sector for the past six years, is Anirban’s natural successor, to ensure the global business will continue to go from strength to strength,” comments Aiman Ezzat, CEO of the Capgemini Group. *“To bolster our laser focus on growth, Jerome Simeon will take on a new position of Chief Revenue Officer for the Group in the new year. His role will encompass our activities across sales, key clients and industries to bring even greater value to our clients as we accompany them on their business-critical transformations. Franck Greverie will add Chief Technology Officer to his scope of responsibility,*

also from January 1. His deep tech expertise and forward-thinking approach will accelerate our efforts to build innovative value creating solutions for our clients. I wish Anirban, Kartik, Jerome and Franck every success in their new roles.”

Aiman Ezzat continues, “After an outstanding 34-year long career at Capgemini and an impressive track record in leading and operating strategic businesses across the Group, Olivier Sevilla will step down as Group COO at the end of 2024. We are all looking forward to supporting Olivier in his new endeavors as an individual, focused on applying his extensive experience in digital transformation to promote a rich techno-business ecosystem to help improve the competitiveness of European businesses. The board of directors joins me in thanking him and paying tribute to his commitment and service.”

Biography: Anirban Bose

Anirban was Head of Capgemini’s Financial Services Strategic Business Unit and a member of the Group Executive Board from 2018. He was also responsible for overseeing the Asia Pacific Strategic Business Unit.

Prior to this, Anirban was the Head of Capgemini’s Banking and Capital Markets Business Unit.

Between 2007 and 2015 Anirban led Capgemini’s Banking Business Unit. From 2004 to 2007, Anirban served as executive vice president at Kanbay before its 2007 acquisition by Capgemini.

Anirban resides in New York. He graduated from the Indian Institute of Technology of Varasani with a Bachelor of Technology. He holds an MBA in Finance from the University of Chicago.

Biography: Kartik Ramakrishnan

Kartik was the Deputy CEO of Capgemini’s Financial Services Strategic Business Unit and also led Capgemini’s Banking and Capitals Markets business. Kartik has been a member of the Group Executive Committee since 2023.

Prior to this, Kartik was responsible for managing sales teams across banking and capital markets.

Kartik has spent over 25 years consulting in the banking and payments industry. Over his career, he has been involved in launching new products and developing innovative, cost-effective solutions for financial services firms across the globe in countries such as Australia, Canada, Germany, India, Singapore, United Kingdom and United States of America.

Kartik has a bachelor's degree from the Indian Institute of Technology and a master's degree from the Booth School of Business at University of Chicago.

Biography: Jerome Simeon

Jerome became the Head of Global Industries in 2023. He has been a Member of the Group Executive Board since 2021.

Prior to this, he was the CEO of the Southern Europe Strategic Business Unit. From 2018 to 2020, Jerome was Managing Director of Capgemini in France, when he also joined the Group Executive Committee.

From 2014, he was CEO, Application Services France after serving as Commercial Director (from 2012 to 2014).

Prior to this, from 2007 to 2010, he held commercial positions in Capgemini's Telecom & Media business after managing the development and sales for the Property & Services Europe sector of BT Global Services for two years.

Jerome joined Capgemini in 1998, after eight years with the group Générale des Eaux/Vivendi. Jerome graduated from Toulouse Business School.

Biography: Franck Greverie

Franck Greverie has been the Chief Portfolio Officer at Capgemini since 2018.

Franck has been on the Group Executive Board since 2020, when he took on additional responsibilities overseeing Cloud Infrastructure Services (cloud & cybersecurity), Business Services and Insights & Data (Data & AI) Global Business Lines.

Prior to this, from 2016, Franck led the Cloud & Cybersecurity activities of Capgemini. He joined Capgemini in 2015 as Head of the Cybersecurity Global Service Line.

Between 2012 and 2015, Franck was an Executive VP at Bull, where he was in charge of the Security Division, and also led the Middle East, Africa and Asia activities.

Prior to that, Franck was the Managing Director of the Information Systems Security and Cybersecurity activities for Thales Group

(France, UK, Germany, Norway, USA, Asia) since 2018. His career with Thales began in 2004, as Head of Strategy, Business Development and Marketing for the Security activity.

Franck is a graduate of ESME, engineering school, and of the Executive MBA of ESSEC Business School.

Digital Twin Consortium Signs Liaison with INCOSE

17 October 2024

The Digital Twin Consortium® announced a liaison agreement with INCOSE, the International Council on Systems Engineering, a not-for-profit membership organization founded to develop and disseminate the transdisciplinary principles and practices that enable the realization of successful systems. INCOSE joined the consortium to facilitate developing, adopting, and monetizing digital twin systems.

“We are excited about working with INCOSE,” said Dan Isaacs, GM & CTO of Digital Twin Consortium. “Their experience in systems engineering will be very valuable as we work together to advance the use of digital twins across all industries.”

“As the trusted authority in Systems Engineering, we are excited to bring the INCOSE experience and network to the DTC,” said Steve Records, Executive Director at INCOSE. “INCOSE’s Vision 2035 notes that the future of SE is model-based. There is a distinct intersection and synergy between MBSE and Digital Twin technology. We aim to bring foundational and state-of-the-art SE thinking to DTC.”

The two groups have agreed to the following:

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

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

ESI Group Strengthens Commitment to China Following Termination of AECC-ESI (Beijing) Partnership

18 October 2024

ESI Group has officially terminated its partnership with AECC Beijing Institute of Aeronautical Materials and BJESITC (Limited Partnership), completing the sale of all its equity interest in AECC-ESI (Beijing) Technology Co., Ltd. as of July 31, 2024.

Although ESI Group no longer holds shares or participates in AECC-ESI (Beijing) Technology Co., Ltd., the company reaffirms its strong commitment to the Chinese market.

ESI Group will continue to operate and expand its wholly-owned subsidiary, ESI Group Beijing Co., Ltd., emphasizing its dedication to delivering cutting-edge solutions in China. This decision aligns with the company's global strategy to focus on core markets and streamline its portfolio.

As a subsidiary of Keysight Technologies, ESI Group specializes in reliable, customized solutions using predictive physics modeling and virtual prototyping.

ESI Group emphasizes that all intellectual property, including patents, trademarks, copyrights, and trade secrets, remains fully owned by the company, ensuring its continued global control over its technological innovations.

FARO Technologies Appoints Phillip Delnick as Senior Vice President, Global Sales

18 October 2024

FARO® announced the appointment of Phillip Delnick to lead FARO's global sales organization as its SVP, Global Sales, effective October 21, 2024.

"Phillip brings a wealth of expertise in sales leadership to FARO, with a proven track record of driving revenue growth, profit growth, and customer satisfaction across multiple product sectors over nearly two decades at Ingersoll Rand," said Peter Lau, President & Chief Executive Officer. "We look forward to welcoming Phillip to the FARO leadership team as we continue to execute on our growth strategy."

Mr. Delnick added, "I am excited by the opportunity to join such a recognized global leader in 4D digital reality solutions, and drive customer value and revenue through our innovative products. Our mission to harness the power of digital reality solutions enables our customers to realize greater operating efficiencies by seamlessly blending the physical and virtual worlds."

Phillip joins FARO from Ingersoll Rand, a global provider of mission-critical flow creation and life sciences and industrial solutions, where he has served in various sales and management leadership roles since 2005. Most recently, Phillip served as Vice President, Americas – Power Tools and Lifting. Mr. Delnick attended York University in Toronto.

HCLTech partners with Multiverse to upskill UK employees in AI and GenAI

22 October 2024

HCLTech, a leading global technology company, has announced the launch of its advanced AI Transformation academy in partnership with Multiverse, a technology company delivering high-quality training through applied learning. HCLTech's AI academy aims to upskill its workforce in AI and generative AI (GenAI) to deliver significant business value to clients with AI solutions and boost overall productivity.

The partnership will see select HCLTech employees in the UK embark on a 13-month 'AI for Business Value' program, with a focus on business benefits and ethical aspects of AI projects. This initiative aligns with HCLTech's goal of upskilling 50,000 employees in GenAI by 2025, improving productivity and enhancing client and employee satisfaction.

Upon completion of their training, employees will be better equipped to analyze their AI-integrated performance metrics, fostering a culture of insightful continuous improvement and maximizing individual and team potential.

"This strategic initiative underscores HCLTech's commitment to harnessing AI responsibly to drive business outcomes. By partnering with Multiverse, we are not only equipping our workforce with advanced AI competencies but are also amplifying our capacity for innovation and excellence in service delivery," said Ashish Kumar Gupta, Chief Growth Officer, Europe and Africa, Diversified Industries, HCLTech. "Through this collaboration, we aim to position HCLTech at the forefront of ethical AI deployment, ensuring that our clients benefit from the transformative power of AI while upholding the highest standards of integrity and productivity."

"Capturing the potential gains from AI doesn't just rely on technology and deploying the right models, it also requires individuals equipped with the right skills to apply it in the real world. HCLTech plays a pivotal role in the global tech arena and their clients depend on its cutting-edge capabilities. By empowering teams with advanced AI skills and instilling confidence, HCLTech and its clients are set to unlock the transformative potential of ethical, precise and productivity-enhancing AI," said Euan Blair, CEO at Multiverse.

Multiverse has trained more than 16,000 apprentices in data and digital skills since 2016.

Hexagon awarded U.S. patents for innovations designed to make communities safer

22 October 2024

Hexagon's Safety, Infrastructure & Geospatial division announced the award of two patents by the United States Patent and Trademark Office for technologies designed to improve incident management and emergency response. The newly patented solutions extend access to security video footage and enable secure data sharing across organizations, empowering public safety agencies, security personnel and other responders to better protect communities.

U.S. Patent No.12,010,389 covers Hexagon's advanced web player technology, which is used within the Qognify VMS video management solution, enabling simultaneous streaming and playback of footage from multiple cameras via a standard web browser. Users can synchronize playback across multiple sources and ensure privacy masking. The player also allows for frame-

by-frame analysis, enabling extremely accurate results during incident management, investigation and review processes.

U.S. Patent No.11,973,810 covers data-sharing capabilities within Hexagon’s cloud-based collaboration portal, HxGN Connect. Connect allows users from disparate organizations to rapidly and securely share a common operating picture and critical information while not compromising overall data security. Using configurable rules, users can share the data they want to share, with whom they want to share it and under the conditions they set.

“As greater demands are placed on public safety and security operations, new, groundbreaking technologies will be vital for protecting people, places and assets,” said Kalyn Sims, chief technology officer at Hexagon’s Safety, Infrastructure & Geospatial division. “Hexagon is committed to innovating solutions that make our world safer. These patents are evidence of our dedication.”

Hexagon is a world leader in safety and security, with over three decades of experience. Hexagon’s public safety solutions help to protect 1 billion people, and more than 4,000 organizations worldwide trust Hexagon’s physical security solutions.

Impresa Corp Names Scott Allshouse as Director, Sales and Marketing for Impresa MRO

16 October 2024

Impresa Corp has appointed Scott Allshouse as Director, Sales and Marketing for the company’s Impresa MRO platform. Allshouse will be responsible for directing global sales activities as well as company growth and sales strategies.

“As the newest leader on the Impresa Corp management team, Scott fills a critical position and will serve as a key asset in the fulfillment of our sales strategy,” said Suresh Iyer, CEO. “Given the breadth of his sales and leadership experience within the aerospace and defense, service and manufacturing industries, his decision to join Impresa Corp is a significant win for the company. Today’s announcement is yet one more acknowledgement of Impresa Corp’s commitment to ensuring its position as a top tier performer in the Aviation Digital MRO Asset Management Life Cycle market.”

A career US Navy Veteran, Allshouse has held various sales positions delivering best-in-class enterprise technology solutions for service, engineering, and manufacturing.

Infosys Collaborates with University of Cambridge to Establish an AI Lab in London. Unveils New and Expanded Living Lab to Accelerate Innovation for Enterprises

23 October 2024

Infosys, a global leader in next-generation digital services and consulting, unveiled its new and expanded Living Labs, part of a network of over 12 established centres globally, to help clients accelerate innovation and leverage emerging technologies for future-proofing their business. Infosys also announced a collaboration with University of Cambridge to establish a new AI Lab, aimed at harnessing the power of AI to drive positive impact for clients, academia, and

students. United Kingdom's Minister for Digital Government and AI, Feryal Clark, University of Cambridge's Head of Department of Applied Mathematics and Theoretical Physics, Professor Colm-cille Caulfield, and over 100 attendees including clients, and partners marked the opening of the Living Labs with a tour of the facility and a live demonstration of its capabilities.

The Infosys Living Labs located in London's world-renowned banking district of Canary Wharf will enable a confluence of digital technologies, business insights and human experience for clients and partners. A hub for innovation activities, it will help leverage solution accelerators, digital experiences, frameworks, and industry solutions to ideate, prototype, and test breakthrough ideas. A key focus at the Living Labs will be Enterprise AI, where clients can witness AI-driven digital transformation in action. This includes Infosys Topaz, an AI-first offering using generative AI technologies, and Infosys Cobalt, a cloud-powered solution that supports enterprises in building robust and scalable digital architectures. By offering interactive demonstrations, workshops, and personalized consultations, Infosys Living Labs will help organizations envision and implement their digital transformation strategies.

The education and research collaboration with University of Cambridge to establish a joint AI Lab will draw from Infosys' industry expertise and practical application of AI as well as Cambridge University's world-class education and research capabilities to help address real-world challenges. This new lab will also be a catalyst for cutting-edge research and innovation initiatives.

The London Living Labs and the AI Lab are housed within Infosys' new state-of-the-art premises spread over 25,000 sq. ft. with a capacity for 200 employees. Designed using biophilic principles, the new workplace seamlessly blends adaptive and modular design and sustainable practices to create a truly modern environment offering a range of creative and collaborative spaces. The premises have also received a Gold SKA Rating, the highest standard, in recognition of the facility meeting the most rigorous sustainability criteria focusing on energy efficiency, water use, waste management, and environmental impact. The office marks an important milestone in Infosys' journey of over 25 years in the UK.

Tarang Puranik, EVP and Head of Delivery for Europe, Infosys, said, "Our Living Labs in London will help enterprises adapt to rapidly changing business cycles and accelerate their digital transformation journey with strategic innovations leveraging Infosys Topaz and Infosys Cobalt. London is a melting pot of some of the world's most forward-thinking and disruptive companies, and our commitment to be a major part of its technological evolution is outlined in this significant investment through our new state-of-the-art collaborative workspace, the launch of Infosys Living Labs and our AI Lab in collaboration with the University of Cambridge."

Minister for Digital Government and AI, Feryal Clark, said, "We are putting the potential of AI at the heart of our plans to kickstart growth in the economy. I saw first-hand how Infosys' new London base will support organisations and researchers to get the most out of this technology, fuelling the new innovations which will deliver change for people up and down the country.

Our recent International Investment Summit secured £63 billion of investment from across the globe and this is further proof that we're continuing to go from strength to strength as a place to do business. By making the UK a magnet for investment, we're delivering on our promise to

ensure British businesses are equipped with the backing they need for the long-term so they can fully embrace the tech revolution.”

Colm-cille Caulfield, Head of Department of Applied Mathematics and Theoretical Physics, and Co-Chair, Cambridge Centre for Data-Driven Discovery, University of Cambridge, said, “For centuries, Cambridge has been at the forefront of research in the mathematical sciences, and is playing a globally leading role in innovating, understanding and applying data-driven techniques such as AI for the benefit of humanity. Our culture of open multi-disciplinary enquiry, with deep coupling between research, education, and real-world impact, resonates well with Infosys, and we are delighted to strengthen our collaboration through this new AI Lab. Together, we have a great opportunity to push back the boundaries of knowledge, identifying new ways to harness the opportunities that AI brings to disruptive advances in science, in business, and in society. We can’t wait to get to work.”

Keysight Collaborates with Siemens EDA to Enable the Next Generation of Wireless Design

22 October 2024

Keysight Technologies, Inc. and Siemens EDA have teamed up to accelerate the efficiency of wireless and defense system design. The integration between Keysight’s Advanced Design System (ADS) and the Siemens Xpedition Enterprise suite of EDA tools enables engineers to more efficiently co-design digital systems and radio frequency (RF) circuits by performing layout and manufacturing in Xpedition and RF Circuit and electromagnetic simulation in Keysight ADS.

Today’s complex wireless and defense system designs demand unprecedented levels of integration between RF and overall system design. These advanced solutions often combine intricate RF components, high-speed digital circuits, and sophisticated signal processing, all of which must work harmoniously.

The collaboration builds on the prior dynamic inter-tool integration from Keysight and Siemens EDA that enabled system design to have bidirectional integration with RF and microwave engineering tools. This initiative integrates complete hierarchical designs bidirectionally between Keysight ADS and Siemens Xpedition Designer and Layout, eliminating the cumbersome and error-prone task of manually translating libraries between the tools.

Engineers can now seamlessly transition between detailed RF design in ADS and system-level design in Xpedition, maintaining integrity across the entire development process. This is crucial for optimizing performance in areas including 5G/6G communications, advanced radar systems, and electronic warfare applications, where the interplay between RF and digital domains is critical to system performance.

The new product is included in Keysight Advanced Design System 2025 and Siemens Xpedition Enterprise release 2409.

Nilesh Kamdar, EDA Design & Verification lead at Keysight said: “We have a long-established track record collaborating with Siemens to support customers in enabling the next generation

of wireless design. The bidirectional integration allows engineers to optimize performance across various applications, including 5G/6G and radar systems.”

AJ Incorvaia, Senior Vice President, Electronic Board Systems, Siemens Digital Industries

Software said: “As engineering teams strive to achieve digital transformation, the digital thread between RF and electronic system design becomes more critical. We’re pleased to announce improved integration enabling concurrent design to optimize system performance and improve quality while accelerating design closure.”

Oracle and NTT DATA Japan Collaborate to Strengthen Sovereign Cloud Capabilities in Japan

24 October 2024

Oracle announced that NTT DATA Japan, a global digital business and IT services leader that is part of the NTT Group, has selected Oracle Alloy to help Japanese organizations across the public and private sector accelerate the use of cloud services while addressing data sovereignty and compliance requirements. With Oracle Alloy deployed in its data centers, NTT DATA Japan will be able to give its customers access to 150+ Oracle Cloud Infrastructure (OCI) services, including the latest AI capabilities.

Oracle Alloy is a complete cloud infrastructure platform that enables Oracle partners to become cloud service providers. With Oracle Alloy deployed in two of its data centers, NTT DATA Japan will be able to expand OpenCanvas, its sovereign cloud for domestic organizations, by offering the latest OCI capabilities, including infrastructure and platform services, and cloud-native development tools. Additional capabilities powered by Oracle Alloy are scheduled to be available on OpenCanvas in the Japan East region by the end of December 2025 and in the Japan West region by the end of March 2027.

“The aim of our data center strategy is to meet new demands for cloud and data utilization, including new on-premises and sovereign requirements, and Oracle Alloy plays an extremely important role in this,” said Hiroshi Tomiyasu, director and executive vice president, NTT DATA Japan. “As a global solutions provider, NTT DATA Japan is also looking to expand its presence overseas and is committed to helping its Japanese customers strengthen their global competitiveness by providing cloud services enhanced with Oracle Alloy to facilitate the migration to the cloud and secure use of data to meet data sovereignty requirements. As a global solutions provider, NTT DATA Japan is looking forward to further support from Oracle to promote cloud computing and data utilization.”

OpenCanvas will also continue to provide its own customized, proprietary cloud services, ensuring it can meet the specific needs of its broad customer base across industries, including financial services, the public sector, and telecommunications. Oracle Alloy will help ensure customer data is stored within Japan to help address data sovereignty and regulatory requirements across industries. In the future, NTT DATA Japan will consider utilizing innovative technologies from the NTT Group, such as the IOWN (Innovative Optical and Wireless Network) initiative, and the large language model (LLM) called “tsuzumi.”

“Providing our partners and customers with more choices has always been our priority,” said Scott Twaddle, senior vice president, Product and Industries, Oracle Cloud Infrastructure.

“Oracle Alloy enables NTT DATA Japan to utilize the latest cloud and AI technologies to enhance its data center capabilities, helping its customers unlock new growth opportunities. We look forward to strengthening our collaboration with NTT DATA Japan and accelerating the digital transformation of Japanese organizations.”

“NTT DATA Japan and Oracle Japan are united in their commitment to delivering secure, user-friendly cloud services to our customers in Japan that incorporate cutting-edge technologies,” said Toshimitsu Misawa, member of the board, corporate executive officer, and president, Oracle Japan. “Oracle Alloy opens unparalleled business opportunities for NTT DATA Japan by enabling it to harness the scalability and performance of the cloud to drive innovation at hyperscaler speed.”

Earlier this year, Oracle announced plans to invest over US\$8 billion in cloud computing and AI in Japan to help meet Japan’s growing demand for cloud computing and AI infrastructure. As part of the plan, Oracle is strengthening its operations team in Japan including the support for NTT DATA Japan’s deployment of Oracle Alloy.

Rockwell Automation names Brian Hovey Chief Marketing Officer

17 October 2024

Rockwell Automation, the world’s largest company dedicated to industrial automation and digital transformation, announced that Brian Hovey has been named vice president, Global Marketing and Chief Marketing Officer. He reports to Scott Genereux, senior vice president and Chief Revenue Officer.

In his new role, Hovey has global responsibility to lead the marketing of Rockwell’s full portfolio. With a focus on driving demand and building the brand globally, he oversees industry strategy, marketing communications, analyst relations, demand generation, and commercial marketing.

Hovey joins Rockwell with more than 25 years of global leadership experience, most recently as vice president, Sales Excellence, Safety and Productivity Solutions at Honeywell. Prior to that, he held multiple marketing leadership roles across the company including vice president, Chief Marketing Officer for Honeywell Safety and Productivity Solutions. He spent 14 years leading marketing organizations at Dell Technologies with a focus on driving growth and marketing transformation for Dell’s B-to-B business.

“Brian brings deep expertise leading transformation and growth opportunities across sales and marketing,” said Genereux. “As a customer-focused, global executive with a record of delivering results, his expertise in developing differentiated business and go-to-market strategies will be a great fit for this team.”

Hovey is an advisory board member for Aviso AI providing executive leadership advisory on the company’s commercial strategy, product offerings, and capabilities. He holds a bachelor’s

degree in mechanical engineering from the University of Illinois Urbana-Champaign and earned an MBA in marketing from the University of Michigan.

Rockwell Automation Names Gustavo Zecharies President for EMEA Region

23 October 2024

Rockwell Automation, the world's largest company dedicated to industrial automation and digital transformation, announced Gustavo Zecharies is named president, Europe, Middle East and Africa (EMEA) region, effective immediately. As president, Zecharies will report to Scott Genereux, SVP and Chief Revenue Officer, and he succeeds Susana Gonzalez, who leaves Rockwell to pursue other opportunities.

In this role, Zecharies will lead and provide strategic direction for sales, services, and solutions in the EMEA region with a focus on growing the original equipment manufacturer segment, which accounts for a significant portion of the region's business. He will drive revenue growth, strategic initiative performance, improved sales force effectiveness, and people development in the organization. Most recently, he served as regional vice president, Latin America, in Global Sales & Marketing. He brings a strong background in business management and sales leadership. Zecharies also has prior experience as a technical director leading software developers in the manufacturing industry.

"Gustavo has had a long and successful career at Rockwell running Canada sales, holding roles in Sales Operations and Market Access, and most recently leading outstanding performance in Latin America sales," Genereux said. "He has a great track record of success and knows our customers well. I look forward to working with him in this new role."

Zecharies' new role will be based in Spain.

Rockwell Automation Names Jane Barr President for Americas Region

16 October 2024

Rockwell Automation, the world's largest company dedicated to industrial automation and digital transformation, announced Jane Barr has been named president, Americas, effective immediately. As president, Barr will continue to report to Scott Genereux, SVP and Chief Revenue Officer, and she succeeds Gina Claxton, who leaves Rockwell to pursue other opportunities.

In this role, Barr will lead our largest region executing on our industry-focused sales strategy, to accelerate customer value and deliver on growth targets. The Americas organization consists of Canada, US, and Latin America. Barr's previous role, also reporting to Genereux, was regional president, Global Industries, in which she led Rockwell's global industry practice including relationships with our top 100 global key accounts. She is a senior member of the Global Sales & Marketing leadership team with 28 years at Rockwell.

"Jane brings proven experience, a global mindset, and an excellent track record of building high performance teams," Genereux said. "I value her leadership and look forward to working with her in this new role."

Barr will continue her leadership duties for Global Industries and will remain based at Rockwell headquarters in Milwaukee, Wisconsin.

SCIA obtains renewal of the group's ISO 9001:2015 certification, valid until 2027

21 October 2024

SCIA has obtained the renewal of certification for its internal quality assurance system according to ISO 9001:2015 valid until 21 October 2027

Since 2001, each employee, from the a junior software developer to the CEO, is required to take and pass tests pertaining to the processes, policies, and procedures in their area of responsibility.

The scope of supply:

- SCIA offers standard software on structural modelling, analysis, design and detailing for engineering consultants and contractors, industry and governmental offices.
- SCIA distributes productivity tools for technicians and engineering.
- SCIA offers training, consultancy and advice on SCIA products and SCIA product related processes.

The certificate concerns below mentioned organisations and sites:

- SCIA nv - Corda 2, Kempische Steenweg 309/0.03 - 3500 Hasselt, Belgium
- SCIA Nederland BV - Goeman Borgesiuslaan 77 - 3515 ET Utrecht, The Netherlands
- SCIA sarl - 57, bis Place Rihour - 59000 Lille, France
- SCIA s.r.o. - Slavièkova 827/1A, 638 00 Brno, Czech Republic
- SCIA s.r.o. - Evropská 2591/33D, 160 00 Praha, Czech Republic
- SCIA s.r.o. - Murgašova 1298/16, 010 01 Žilina, Slovakia

Our Quality Management System contributes significantly to the continuous improvement of our processes, procedures and client satisfaction.

Siemens and ServiceNow strengthen shopfloor security and drive generative AI-powered automation for shopfloor operations

23 October 2024

Siemens and ServiceNow announced a new collaboration, that debuted at the ServiceNow World Forum in Munich. The companies intend to enhance industrial cybersecurity and drive the integration of generative AI into shopfloor operations. This mutual cooperation leverages Siemens' Sinec Security Guard for industrial vulnerability management and the Siemens Industrial Copilot for generative AI-powered automation – with ServiceNow providing the workflow automation needed to streamline and enhance factory operations.

According to a recent market analysis, the industrial cybersecurity market is expected to reach \$21.6 billion by 2028, driven by increasing threats to operational technology (OT) systems and the need for more comprehensive vulnerability management. The application of generative AI in industrial settings is also predicted to grow exponentially, with companies seeking to improve operational efficiency and human-machine collaboration.

Cathy Mauzaize, President EMEA at ServiceNow, said: “Our collaboration with Siemens represents a pivotal step in enhancing operational technology security and harnessing the power of generative AI on the shopfloor. With Siemens’ market-leading expertise in industrial automation and the ServiceNow platform’s ability to orchestrate and automate workflows, we are enabling our joint customers to respond to vulnerabilities and streamline operations with speed and intelligence.”

Rainer Brehm, CEO Factory Automation at Siemens, added: “Combining the strength of Siemens Xcelerator, including Sinec Security Guard and the Siemens Industrial Copilot, with ServiceNow’s automation capabilities will help our customers make faster, smarter decisions. This collaboration marks a significant milestone in securing OT environments and bringing cutting-edge AI technology directly to the factory floor.”

Factory security and efficiency with AI-driven automation

ServiceNow’s Operational Technology Service Management (OTSM) suite plays a key role in this cooperation. OTSM helps organizations manage and secure their operational technology environments by integrating IT and OT workflows, providing real-time visibility, and automating processes across the entire factory floor. With the addition of Sinec Security Guard, ServiceNow’s OT Vulnerability Response (OT VR) will be further enhanced to include more insights into vulnerabilities of OT equipment, enabling faster detection and remediation of security threats.

In the area of automation, ServiceNow’s Now Platform excels in orchestrating complex workflows and integrating AI insights into operational processes. Siemens brings in extensive industry domain know-how in the automation business. The Siemens Industrial Copilot is powered by generative AI and offers a transformative capability for human-machine collaboration on the shopfloor. Companies working with the Now Platform and mapping their workflows there can now easily create even more transparency with the Operations Copilot. A new level of transparency and control over operational processes can now be realized through the seamless interaction between static and dynamic machine data. Using natural language, the Operations Copilot assists shopfloor workers with detailed instructions and recommendations. ServiceNow’s ability to automate workflows – from maintenance scheduling to real-time problem-solving – helps ensure that these AI-driven insights translate into tangible and efficient actions that improve productivity and minimize downtime.

TCS Launches NVIDIA Business Unit to Accelerate AI Adoption for Customers Across Industries

24 October 2024

Tata Consultancy Services (TCS), a global leader in IT services, consulting, and business solutions, has expanded its collaboration with NVIDIA to launch industry-specific solutions and offerings that will help customers adopt artificial intelligence (AI) faster and at scale. These solutions and offerings will be delivered through TCS' new business unit focused on NVIDIA, under its AI.Cloud business unit. TCS' new business unit builds on a collaboration with NVIDIA for over five years, brings together the complementary capabilities of both organizations and offers tailored offerings for various industries.

Enterprises worldwide are racing to adopt AI but there is no consensus on an AI adoption strategy, according to the recent TCS AI for Business Study. The AI adoption journey for every enterprise is unique and involves an interplay of AI and existing enterprise capabilities. AI adoption at scale requires an intimate understanding of the enterprise and its practices and building AI models that are customized for the context. The new unit will design and deliver curated AI adoption strategies by leveraging global centres of excellence (CoEs), investments in the NVIDIA AI platform - including accelerated computing and AI software, and the NVIDIA AI Enterprise and NVIDIA Omniverse platforms - and skilled resources

The new unit also offers TCS' proprietary framework, which brings together its deep domain expertise, enterprise contextual knowledge and NVIDIA AI technology for building and deploying agentic AI solutions - including NVIDIA NIM microservices and NVIDIA NIM Agent Blueprints, which are part of the NVIDIA AI Enterprise software platform and NVIDIA AI Foundry – to deliver value at scale to customers. TCS and NVIDIA have collaborated to build innovative, value chain-centric solutions and offerings for industry verticals on the NVIDIA AI platform. They include:

1. **TCS Manufacturing AI for Industrials:** This offering leverages the power of AI and large language models (LLMs) to transform raw data into actionable insights for manufacturing enterprises. While general-purpose LLMs lack the capabilities to understand specific industry nuances, TCS' Manufacturing AI for Industrials LLMs leverage the company's contextual knowledge, technical prowess and the power of NVIDIA's application frameworks to help accurately address industry challenges.
2. **TCS AI Spectrum for BFSI:** This offering delivers innovative and secure ways of infusing the power of LLMs and AI into BFSI lines at enterprise scale. Built on the NVIDIA AI Enterprise platform, it enables faster decision-making, improved regulatory compliance and enhanced risk management for financial institutions.
3. **TCS Cognitive Visual Receiving:** This is a holistic composite AI offering built on NVIDIA AI Enterprise and Omniverse that revolutionizes retail warehousing with greater accuracy, efficiency and speed by automating quality check, product identification, measurement and attribute extraction.
4. **TCS AI-Native Telco Offerings:** These offerings built on NVIDIA AI and NVIDIA Aerial Omniverse Digital Twin enables telcos to rapidly create custom telco domain-specific models to meet business needs such as autonomous network anomaly management, billing & revenue assurance, 3D network visualization and customer experience.

5. **TCS AI-based Autonomous Vehicle Platform:** TCS' IoT and Digital Engineering unit is working with NVIDIA to leverage generative AI and deep learning technologies, such as Omniverse for simulation and NVIDIA AI Enterprise for synthetic data generation, to accelerate the development of end-to-end autonomous features and capabilities for automotive OEMs and tier 1 suppliers.

Jay Puri, Executive Vice President of Worldwide Field Operations at NVIDIA, said, *"The fusion of TCS' deep industry expertise with NVIDIA AI technology is set to introduce a new era of intelligent enterprise transformation. TCS' new NVIDIA business unit is poised to accelerate AI and simulation with NVIDIA AI Enterprise for building agentic AI solutions and NVIDIA Omniverse for building physical AI solutions, paving the way for AI-driven innovation across India and the world."*

Siva Ganesan, Head, AI.Cloud Unit, TCS, said, *"Curated AI journeys are derived at the intersection of deep-domain and deep-tech. This is a space that TCS has excelled at during every business transformation cycle. Our unique vantage point, at the intersection of business and technology, helps us identify the right opportunities for our customers. With the innovative and efficient NVIDIA AI platform, and our wide scale and proven track record in delivering value, our customers now have a means to faster value realization."*

TCS offers clients vast domain expertise across industries, global delivery capabilities, and deep understanding of diverse business processes and industry knowledge. TCS leverages NVIDIA AI, accelerated computing, software, and development platforms in its offerings to cater to the specific needs of each industry and help enterprises unlock the full potential of AI.

Anupam Singhal, President – Manufacturing, TCS, said, *"Manufacturers can now achieve unprecedented accuracy and access the tacit knowledge to optimize their operations, improve decision-making, and drive impactful innovation. This is possible with TCS' Manufacturing AI for Industrials offering, which leverages NVIDIA technology to harness the power of LLMs (large language models) and is fine-tuned with TCS' deep manufacturing industry expertise. TCS is committed to providing manufacturing enterprises with the transformative AI solutions they need to make them future-ready and lead the charge toward a smarter, more sustainable future."*

The collaboration with NVIDIA is part of TCS' broader efforts to strengthen its AI-readiness and build end-to-end capabilities powered by NVIDIA technology to foster enterprise-wide AI transformation for its key customers.

John Fanelli, Vice President, Enterprise Software, NVIDIA, said, *"Factories, warehouses and robotics are the next grounds for physical AI innovation at scale. Combining cutting edge AI and simulation capabilities can unlock unprecedented potential for intelligent manufacturing operations for TCS clients."*

To help manufacturers embrace the next wave of digital manufacturing, TCS is also working on a new suite of digital twin solutions built on the NVIDIA Omniverse development platform, enabling clients to design, simulate, operate, and optimize products and production facilities across heavy industries:

1. **Factory of the Future:** Real-time factory planning, monitoring, and predictive maintenance in a virtual environment, reducing downtime and speeding up time to market.
2. **In-Car Digital Twin:** Autonomous vehicle simulation using Omniverse's physics-based simulations, reducing the need for physical testing.
3. **Aero Care Efficiency:** Digital twins creation for aircraft components, enabling immersive training, enhanced problem-solving and the early detection of failures, helping improve safety and reduce operational risks.
4. **Smart Farming Digital Twin:** Farming scenario simulations with real-world physics, including soil interactions, terrain analysis, and weather conditions to improve equipment performance, process optimization and sustainability in modern agriculture.

Tech Mahindra Announces AI Center of Excellence, Powered by NVIDIA AI Enterprise and Omniverse Platforms

24 October 2024

Tech Mahindra, a leading global provider of technology consulting and digital solutions to enterprises across industries, announced the establishment of a Center of Excellence (CoE) powered by NVIDIA platforms to drive advancements in sovereign large language model (LLM) frameworks, agentic AI, and physical AI.

Based on the Tech Mahindra Optimized Framework, the CoE leverages the NVIDIA AI Enterprise software platform — including NVIDIA NeMo, NVIDIA NIM microservices and NVIDIA RAPIDS — to offer customized, enterprise-grade AI applications to help its clients adopt agentic AI in their businesses. Agentic AI significantly improves productivity by enabling AI applications to learn, reason, and take action. The CoE also uses the NVIDIA Omniverse platform to develop connected industrial AI digital twins and physical AI applications across various sectors, including manufacturing, automotive, telecommunications, healthcare, banking, financial services and insurance.

Leveraging the capabilities of the CoE, Tech Mahindra has also developed Project Indus 2.0, an advanced AI model powered by NVIDIA NeMo based on Hindi and dozens of its dialects, such as Bhojpuri, Dogri, and Maithili. Project Indus 2.0 caters to diverse sectors, including retail, banking, healthcare, and citizen services, in India. It stands out as a state-of-the-art LLM that advances Hindi and dialect conversations. In the future, Indus 2.0 aims to include agentic workflows and support multiple dialects to provide a more nuanced and effective AI solution tailored to India's diverse linguistic and cultural landscape.

Atul Soneja, Chief Operating Officer, Tech Mahindra, said, *“At Tech Mahindra, we are redefining the boundaries of AI innovation. Collaborating with NVIDIA, we are setting a new benchmark for enterprise-grade AI development by seamlessly integrating GenAI, industrial AI and sovereign large language models into the heart of global enterprises and industries.”*

Tech Mahindra will also leverage the new NVIDIA NIM Agent Blueprint for customer service to help call center clients build custom AI virtual assistants that can aid human agents in rapidly resolving issues.

John Fanelli, Vice President, Enterprise Software at NVIDIA, said, “Built with NVIDIA technology, Tech Mahindra’s Center of Excellence will accelerate the development and adoption of sovereign AI LLMs and applications tailored for India’s diverse industries and linguistic landscape. Our collaboration with Tech Mahindra is helping create a foundation for AI-driven innovation in the region and around the world.”

The CoE, located within Tech Mahindra’s Makers Lab in Pune and Hyderabad, is a significant step in the organization's efforts to bring GenAI, LLMs, and digital twins into mainstream use, providing solutions for enterprises and end users.

Welcome to VERTEX: Nicholas Cane, Senior Managing Director, EMEA

15 October 2024

We are excited to welcome Nicholas Cane, CSCi, CWEM, as the Senior Managing Director for our EMEA region. Based out of London, UK, Nicholas brings a wealth of global expertise in the construction and engineering sectors, with extensive experience in planning, design, and project risk management. His career has been marked by his ability to lead high-performing teams, drive business growth through innovation, and deliver successful outcomes in some of the world’s most complex projects.

Nicholas has a proven track record in forensic investigations and construction claims consulting, having worked on notable projects across Asia and beyond. His focus on construction disputes and claims resolution has positioned him as a trusted advisor to industry leaders. He combines technical proficiency with strategic insight, offering clients expert guidance on a wide range of subjects, including risk management, delay claims, and coastal and marine engineering challenges.

With a strong academic background, including a BSc (Hons) in Coastal Conservation and Management from Southampton University, and certification from Akdeniz University in European Integrated Coastal Zone Management, Nicholas has continually enhanced his knowledge to stay at the forefront of his field. He is a Chartered Scientist and Chartered Water and Environmental Manager, and a member of the Society of Construction Law Hong Kong, further underscoring his commitment to professional excellence.

We look forward to Nicholas’s contributions to VERTEX, as he strengthens our presence in the EMEA region and beyond, delivering exceptional service and leadership across a broad spectrum of construction and forensic consulting services.

Please join us in welcoming Nicholas Cane to the VERTEX team!

Event News

CADENAS at the SPS 2024 in Nuremberg

22 October 2024

Visit us at SPS - Smart Production Solutions from 12 to 14 November

SPS - Smart Production Solutions will take place from 12 to 14 November 2024 at the Nuremberg Exhibition Centre with over 1,200 national and international exhibitors. Visitors will have the opportunity to visit the various booths, attend exciting technical presentations, follow practical panel discussions and network. CADENAS GmbH will also be present as a technology driver at the leading trade fair for smart and digital automation. Experience the Asset Administration Shell in action at the CADENAS booth and learn about best practice solutions for the successful use of the Asset Administration Shell and Digital Twins.

Digital solutions for the future

Take the opportunity and visit CADENAS at booth 5-358 together with the Industrial Twin Association e.V. (IDTA) and at booth 3C-301 together with nVent HOFFMAN. Look forward to concentrated know-how.

IDTA is the first point of contact for all aspects of the Administration Shell and provides a platform for industry organizations to participate. CADENAS and IDTA are working closely together to shape the future of the Asset Administration Shell and make it the industry standard of the future. The Asset Administration Shell stores all important information and data of a specific product throughout its entire lifecycle. Our experts will give you practical insights, show you specific application examples and answer your questions.

nVent, designer and manufacturer of electrical solutions for mission-critical equipment, buildings and processes, is a technology partner of Zuken E3.series and CADENAS. The nVent HOFFMAN Design to Manufacturing (DTM) software provides direct integration with the CADENAS component library. CADENAS supports smooth and efficient work in DTM, e.g. when designing an enclosure, by providing the Component Cloud, a component library for electrical design – powered by CADENAS and produced by nVent and Zuken. Visit the booth to see how you can use DTM software in electrical design, such as enclosure design, to make your work faster, easier, and more profitable through automation processes.

Electronics² - Kontron presents its leading ODM/EMS offering at electronica 2024

23 October 2024

Kontron, a leading global provider of IoT/Embedded Computer Technology (ECT), as well as, development and production services, presents its expanded ODM/EMS offering with “Electronics²”. Following the acquisition of KATEK and its subsidiary beflex, Kontron is positioning itself as one of the leading players in the electronics industry. Electronics² will be exhibiting for the first time at electronica 2024 Munich in Hall A1, Stand 441.

The companies KATEK and beflex were acquired by Kontron AG in March 2024, significantly expanding the company's service portfolio. This merger makes Kontron one of the top 5 companies in the European ODM/EMS market.

Electronics²: Comprehensive development and production solutions

As the central service brand of the Kontron Group, Electronics² offers a wide range of development and production services as well as its own products. The portfolio includes solutions in the field of IoT and industrial control and communication technology, ranging from individual modules to complete systems and software solutions. KATEK complements the portfolio with production services, especially in large-scale production, while beflex rounds off the range as a specialist for prototypes and small series production.

Electronics² covers the entire production chain from assembly to final assembly and offers solutions for prototypes, small and medium series through to large-scale production. All production steps are fully traceable, quality management and certifications ensure the highest quality standards. Electronics² has special certifications in the fields of medical technology, avionics and automotive. From assembly to complex final assembly, Kontron covers the entire range of services with Electronics² - from prototypes to small and medium series to series production with large volumes in the price-sensitive segment. Comprehensive traceability guarantees the seamless tracking of all production steps.

The Kontron Group companies are represented by subsidiaries in Europe and America as well as partners in Asia to meet customer requirements locally. The local-for-local approach enables flexible solutions for smooth delivery and, if necessary, rapid responses to challenges such as transportation restrictions.

IoT and embedded innovations at electronica 2024

At electronica 2024, Kontron is presenting its scalable and flexible computer-on-modules standards such as COM-Express[®], COM-HPC[®] and SMARC[®], which are based on the latest technologies from Intel[®], AMD and ARM[®]. For special applications, Kontron offers semi- and full-custom designs for these modules that are tailored to the requirements of the application. Another trade fair highlight is the Kontron susietec[®] toolset for holistic IoT and Industry 4.0 solution approaches. The KontronOS-IoT Bundle will be at the center of this. The solution offers high security and up-to-dateness for Linux[®]-based embedded hardware and supports companies in the reliable operation of their IoT systems over the entire product life cycle

Kontron will be represented at the electronica 2024 in Munich, Hall A1, Booth 441 from November 12 to 15.

MATLAB EXPO 2024 Highlights Trending Tech Including AI, Wireless Communications, and Electrification in Four Plenary Talks and Over 50 Online Sessions

22 October 2024

MathWorks announced that MATLAB EXPO 2024 will be held live online across multiple international time zones on November 13–14, 2024. The event will enable engineers,

researchers, educators, and scientists to learn about technological advancements in eight focus areas, including AI, wireless communications, autonomous systems and robotics, and electrification. To register for this free event and view the agenda, visit matlabexpo.com/online/2024.html.

MATLAB EXPO Highlights

Industry leaders and MathWorks experts will present use cases and interactive demonstrations to highlight the newest features and capabilities of MATLAB® and Simulink®. Academia and industry experts will lead over 50 sessions, four plenary presentations, and eight hands-on workshops using MATLAB Online and Simulink Online. In addition, the Technology Showcase area will feature the latest innovations from MathWorks and its industry partners, such as ST Microelectronics, AWS, and Infineon Technologies.

Five keynote speakers will be featured at MATLAB EXPO, including:

- Louis Lintereur, Chief Engineer of Automated Delivery Systems, Medtronic Diabetes, will present **“A Model-Based Design Journey from Aerospace to Artificial Pancreas System.”** Lintereur will shed light on Medtronic’s cross-disciplinary approach to developing an artificial pancreas system that transforms diabetes therapy through automated insulin therapy. This keynote will highlight how Medtronic used MathWorks software to rapidly design, validate, and launch their innovative system.
- Dr. Darryll J. Pines, President of the University of Maryland, will discuss **“The Empathetic Engineers of Tomorrow.”** This presentation focuses on developing a new cohort of future engineers prepared to tackle the challenges of our time by developing interpersonal skills, cultural sensitivity, and social responsibility. President Pines will discuss how new research, experiential learning opportunities, and grassroots education initiatives can help train engineers who consider the ethical implications of their work and are prepared to make real change for real people.
- María Elena Gavilán Alfonso, Technical Program Manager at MathWorks, will explore the landscape of software-defined products in her talk, **“From Embedded to Empowered: The Rise of Software-Defined Products.”** Gavilán-Alfonso will offer insights on the software-defined transformation occurring in sectors such as aerospace, medical, and industrial systems, as well as how this shift will impact development processes and risk mitigation.
- Heather Gorr, Principal MATLAB Product Marketing Manager at MathWorks, and Tianyi Zhu, Product Marketing Manager for Simulink and AI at MathWorks, will introduce **“What’s New in MATLAB and Simulink R2024b.”** This talk will provide attendees with an overview of the latest capabilities in MATLAB and Simulink for taking your ideas from research to production. This includes ease-of-use enhancements for the editors to support rapid prototyping and design scaling, new tools for automating build and test workflows, and new options for deploying algorithms and models to cloud and production systems. Gorr and Zhu will also discuss new features for integrating with

other languages, including Python, and new capabilities for specific application areas, including AI.

Flexible Access to Interactive Presentations

As an online event, MATLAB EXPO 2024 is open to registration from participants worldwide: matlabexpo.com/online/2024.html. On both days, the event will be repeated in three blocks of 4 hours for participants in three time zones. Those located in Asia (9:00 a.m. IST), Europe (10:00 a.m. CET), and North America (11:00 a.m. EST) will have the opportunity to select sessions from any block to suit their schedules.

Financial News

Atos: Third quarter 2024 revenue in line with September 2nd Business Plan

24 October 2024

Atos, a global leader in digital transformation, high-performance computing and information technology infrastructure, announces its revenue for the third quarter of 2024.

Jean Pierre Mustier, Atos Chief Executive Officer, declared:

“With our financial restructuring plan and our new governance in place, Atos can confidently focus on its industrial turnaround and growth under the leadership of Philippe Salle. He is the best person to lead our transformation journey and restore confidence in Atos.

I have seen a positive change of perception with our clients, who have taken note of our restructuring, and are looking to resume a normalized interaction with us. I expect stronger commercial activity in the coming months, with the anticipated return of multi-year strategic contracts with existing customers.

I would like to take this opportunity to sincerely thank our employees for their ongoing commitment, and our customers and partners for their continued support.”

Revenue by Businesses

<i>In € million</i>	Q3 2024 Revenue	Q3 2023 revenue	Q3 2023 revenue*	Organic variation*
Eviden	1,093	1,202	1,167	-6.4%

Tech Foundations	1,212	1,373	1,244	-2.6%
Total	2,305	2,575	2,412	-4.4%

**at constant scope and average exchange rates*

Group revenue was €2,305 million in Q3 2024, down -4.4% organically compared with Q3 2023 as expected. Overall, Group revenue in the third quarter reflects softer market conditions and is consistent with the business plan communicated on Sept 2nd.

Eviden revenue was €1,093 million, down -6.4% organically.

- **Digital** activities decreased high single-digit. The business was impacted by the general market slowdown in Americas and Central Europe and previously-established contract scope reductions.
- **Big Data & Security (BDS)** revenue was roughly stable organically. In Advanced Computing, stronger activity in Denmark and France was offset by a high comparison basis in the prior year. Revenue in Digital Security slightly decreased, despite the growth of Mission Critical Systems, notably in Central Europe.

Tech Foundations revenue was €1,212 million, down -2.6% organically.

- **Core revenue** (excluding BPO and value-added resale (“VAR”)) decreased low single-digit. Stronger contributions related to the Paris Olympic & Paralympic games were offset by contract terminations in Americas and previously-established contract scope and volume reduction in Northern Europe & APAC.
- **Non-core revenue** declined high single-digit during the quarter as expected, reflecting contract completion in BPO activities in the UK.

Revenue by Regional Business Unit

<i>In € million</i>	Q3 2024 Revenue	Q3 2023 revenue	Q3 2023 revenue*	Organic variation*
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Americas	500	606	558	-10.5%
Northern Europe & APAC	707	769	757	-6.6%
Central Europe	544	627	546	-0.4%
Southern Europe	477	501	480	-0.7%
Others & Global Structures	76	73	69	+10.1%
Total	2,305	2,575	2,412	-4.4%

**at constant scope and average exchange rates*

Americas revenue decreased by **-10.5%** on an organic basis, reflecting the current general slowdown in market conditions and previously-established contract terminations and completions.

- Eviden was down double-digit, impacted by contract terminations and volume decline in Healthcare, Finance, and Transport & Logistics. BDS declined high single-digit due to volume reductions.
- Tech Foundations revenue declined mid single-digit due to contract completions and terminations as well as scope reductions with select customers.

Northern Europe & Asia-Pacific revenue decreased by **-6.6%** on an organic basis.

- Eviden revenue declined mid-single-digit. A revenue increase at BDS due to new business in Advanced Computing with an innovation center in Denmark was offset by the decline of Digital revenue, reflecting a lower demand from Public Sector customers in the UK.

- Revenue in Tech Foundations was down high single-digit, with contract completions and volume decline in Public Sector BPO.

Central Europe revenue was nearly stable at **-0.4%** on an organic basis.

- Eviden revenue declined low single-digit, impacted by volume reductions in Digital from Manufacturing and Public Sector customers.
- Tech Foundations revenue grew mid-single-digit, with strong demand for hardware products.

Southern Europe revenue was down **-0.7%** organically.

- Eviden revenue was roughly flat. Growth in Digital, which benefitting from a contract win with a major European utility company, was offset by lower revenue in BDS compared to Q3 2023, when a supercomputer project was delivered in Spain.
- Tech Foundations revenue declined low single-digit due to volume reductions with select customers.

Revenue in Others and Global Structures, which encompass Middle East, Africa, Major Events as well as the Group's global delivery centers and global structures, grew double-digit reflecting stronger contributions from the Paris Olympic & Paralympic Games and the positive performance of Africa.

Commercial activity

Order entry for the Group was **€1,526 million**. Eviden order entry was €794 million and Tech Foundations order entry was €733 million.

Book-to-bill ratio for the Group was **66%** in Q3 2024, down from 84% in Q3 2023, reflecting softer market conditions and delays in contract awards as clients await the final resolution of the Group's refinancing plan. This ratio is in line with the book-to-bill ratio for Q3 2023, excluding exceptionally large contract^[7].

Book-to-bill ratio at **Eviden** was **73%**. Main contracts signatures during the third quarter included the supply of an HPC to a leading player in the Aerospace sector, another HPC contract signed with a major French utility provider, together with control room utility solutions.

Book-to-bill ratio at **Tech Foundations** was **60%**, consistent with the seasonality observed in previous years, in particular in Q3 2021 (54%) and in Q3 2022 (58%). Main contracts signatures in the third quarter included several renewals to provide Hybrid Cloud & Infrastructure services in Financial Services, Public Sector, and Manufacturing industries.

Stronger commercial activity is expected in the coming months in both Eviden and Tech Foundation, which would lead to a significant improvement of the Group book-to-bill ratio in the fourth quarter, as confidence in the Group's financial sustainability has been restored.

At the end of September 2024, the **full backlog** was €14.7 billion representing 1.4 years of revenue. The **full qualified pipeline** amounted to €5.7 billion at the end of September 2024.

Human resources

The **total headcount** was **82,211** at the end of September 2024, decreasing by -10.3% since the end of June 2024. Following contract completions in Americas and the UK, the Group transferred circa 4,900 employees to the new providers. Excluding these transfers, headcount has decreased by circa -5%.

During the third quarter, the Group hired 1,839 staff (of which 91% were Direct employees), while attrition rate increased compared with Q2. The attrition rate over the past 9 months is in line with normal historical levels.

Q3 cash position

As of September 30, 2024, cash & cash equivalents was €1.1 billion, down €1.2 billion compared with December 31, 2023 primarily reflecting €1.6 billion lower working capital actions compared with the end of fiscal 2023 and €1.1 billion of new borrowings.

As of September 30, 2024, net debt was €4.6 billion compared with €2.2 billion at the end of last year, reflecting primarily the reduction of working capital optimization down to €265 million.

Cash consumption was €-3 million in the third quarter, excluding change in working capital optimization of €232 million.

Full year 2024 outlook

The Group expects for the full year 2024:

- Mid-single-digit organic revenue decrease, corresponding to revenue of circa €9.7 billion
- Operating margin of circa €238 million excluding additional provisions to be booked for some underperforming contracts^[8]
- Change in cash before debt repayment of circa €-783 million excluding the full unwind of the working capital optimization of circa €1.8 billion as of December 31, 2023.

Financial restructuring process

Atos expected to receive today the decision from the Court on its pre-arranged financial restructuring plan.

Assuming the plan is accepted by the court, the next steps of the financial restructuring process would be as follows:

November 12 – 22:	€233 million rights issue with preferred subscription rights
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Mid to end December:	Execution of concomitant reserved capital increases
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End of December 2024 or early 2025	Receipt of €1.5bn to €1.7bn of new money debt Closing of the restructuring process
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Asset disposal processes

The discussions with Alten regarding the sale of the Worldgrid business are progressing well and are on track.

Following the communication issued on October 7, discussions related to the potential acquisition by the French state of the Advanced Computing, Mission-Critical Systems and Cybersecurity Products businesses of BDS are continuing based on a new proposal compatible with the financial restructuring plan of the Company.

Governance

As communicated on October 15, 2024, Philippe Salle has been appointed as Chairman of the Board of Directors of the Company with immediate effect and as Chairman and Chief Executive Officer with effect from February 1, 2025.

Conference call

Atos' Management invites you to a conference call on the Group revenue for the third quarter of 2024, on **Thursday, October 24, 2024 at 08:00 am (CET – Paris)**.

You can join the **webcast** of the conference:

- via the following [link](#).
- by telephone by dial-in, 10 minutes prior the starting time. Please note that if you want to join the webcast by telephone, **you must register in advance of the conference** using the following [link](#).

Upon registration, you will be provided with Participant Dial In Numbers, a Direct Event Passcode and a unique Registrant ID. Call reminders will also be sent via email the day prior to the event.

During the 10 minutes prior to the beginning of the call, you will need to use the conference access information provided in the email received upon registration.

After the conference, a replay of the webcast will be available on atos.net, in the Investors section.

Bechtle - Third-quarter earnings below expectations

22 October 2024

According to preliminary figures, Bechtle AG's earnings before taxes (EBT) in the third quarter are expected to be considerably below those of the previous year and also under Bechtle's own market expectations, primarily as a result of the continuing reluctance to invest—especially among SMEs—with Bechtle's most important markets in Germany and France the most affected.

As in Q2, the usually critical end-of-quarter period was once again surprisingly weak. In Q3 2023, Bechtle was also able to secure a large-volume software project, which had a positive impact on revenue and earnings. The same quarter this year did not see such an effect.

Sitting at some €1,890 million, business volume decreased only slightly by around 1% yoy. Revenue climbed approximately 2% to some €1,510 million with EBT dropping back to €78 million after hitting €93.9 million in the previous year. The EBT margin is expected to be 5.2%.

In light of earnings development so far this year, coupled with the continuing adverse economic conditions in the third quarter, the Executive Board no longer expects to achieve the adjusted forecast announced on 18 July 2024.

While the Executive Board still expects to see an improvement in business development in the fourth quarter of 2024, its impact cannot be forecast with any accuracy due to the continuing chronic market uncertainties at this time. Bechtle will, therefore, not be publishing a new forecast for the remaining weeks of the 2024 fiscal year.

Bechtle AG will publish its statement on the third quarter including the finalised figures on 08 November 2024.

Dassault Systèmes: Third quarter results in line Anticipating top line acceleration in 4Q Confirming full year EPS objective

24 October 2024

Dassault Systèmes reports its IFRS unaudited estimated financial results for the third quarter 2024 and nine months ended September 30, 2024. The Group's Board of Directors approved these estimated results on October 23, 2024. This press release also includes financial information on a non-IFRS basis and reconciliations with IFRS figures in the Appendix.

Summary Highlights¹

(unaudited, non-IFRS unless otherwise noted, all growth rates in constant currencies)

- 3Q24: total revenue rose 4% to €1.46 billion driven by subscription revenue up 8%;
- 3Q24: sequential improvement of MEDIDATA revenue;
- 3Q24: operating margin of 29.6% and EPS at €0.29, in line with guidance;
- YTD24: IFRS cash flow from operations up 6% as reported;
- FY24: confirming diluted EPS objectives of €1.27 - €1.30, while updating total revenue growth from 6 - 8% to 5 - 7% to reflect the continued scrutiny and contraction of the automotive market. Anticipating total revenue growth acceleration at 8% mid-point in 4Q24.

¹IFRS figures for 3Q24: total revenue at €1.46 billion, operating margin of 18.9% and diluted EPS at €0.18; IFRS figures for YTD24: total revenue at €4.46 billion, operating margin of 19.6% and diluted EPS at €0.61.

FARO to Announce Financial Results for the Third Quarter 2024 on November 6, 2024

23 October 2024

FARO® Technologies, Inc., a global leader in 4D digital reality solutions, announced that after market close on Wednesday, November 6, 2024, it will release its financial results for the third quarter ended September 30, 2024. In conjunction with the release, Peter Lau, President and Chief Executive Officer, and Matthew Horwath, Senior Vice President and Chief Financial Officer, will host a conference call on Wednesday, November 6, 2024, at 4:30 pm. ET.

Interested parties can access the conference call by dialing +1 800-343-4849 (U.S.) or +1 785-424-1699 (International) and using the passcode FARO. **To avoid a delay in connecting to the call, please dial in 10 minutes prior to the start time.** A live webcast will be available in the Investor Relations section of FARO's website at: <https://www.faro.com/about-faro/investor-relations/events>

A replay of the webcast will be available in the Investor Relations section of the company's website approximately two hours after the conclusion of the call and remain available for approximately 30 calendar days.

Materialise Reports Third Quarter 2024 Results

24 October 2024

Materialise NV, a leading provider of additive manufacturing and medical software and of sophisticated 3D printing services, announced its financial results for the third quarter ended September 30, 2024.

Highlights – Third Quarter 2023

- Total revenue increased 14.2% to 68,652 kEUR compared to 60,130 kEUR for the third quarter of 2023.

- Gross profit as a percentage of revenue for the third quarter of 2024 was 57.2%, compared to 56.0% for the third quarter of 2023.
- Adjusted EBIT increased to 4,408 kEUR for the third quarter of 2024 from 2,330 kEUR for the 2023 period, while Adjusted EBITDA increased to 9,895 kEUR for the third quarter of 2024 from 7,857 kEUR for the 2023 period.
- Net profit for the third quarter of 2024 was 3,038 kEUR, or 0.05 EUR per diluted share, compared to 4,013 kEUR, or 0.07 EUR per diluted share, for the corresponding 2023 period.

CEO Brigitte de Vet-Veithen commented, “In the third quarter of 2024 Materialise once again delivered strong operational results. Our consolidated revenue of 68,652 kEUR rose more than 14% compared to the same period last year, with increased revenue in all three of our business segments. Materialise Medical posted an especially strong quarter with revenue increasing more than 24%. At the same time, we grew our consolidated Adjusted EBIT by 89% to 4,408 kEUR without compromising our continued investments to drive future growth.”

Third Quarter 2024 Results

Total revenue for the third quarter of 2024 increased 14.2% to 68,652 kEUR from 60,130 kEUR for the third quarter of 2023. Adjusted EBIT increased to 4,408 kEUR for the third quarter of 2024 from 2,330 kEUR for the 2023 period. The Adjusted EBIT margin (Adjusted EBIT divided by total revenue) for the third quarter of 2024 was 6.4%, compared to 3.9% for the third quarter of 2023. Adjusted EBITDA increased to 9,895 kEUR for the third quarter of 2024 from 7,857 kEUR for the 2023 period.

Revenue from our Materialise Medical segment increased by 24.5% to 30,197 kEUR for the third quarter of 2024 compared to 24,263 kEUR for the same period in 2023. Segment Adjusted EBITDA increased by 38.5% to 9,895 kEUR for the third quarter of 2024 compared to 7,143 kEUR while the segment Adjusted EBITDA margin was 32.8% compared to 29.4% for the third quarter of 2023.

Revenue from our Materialise Software segment increased by 2.8% to 11,111 kEUR for the third quarter of 2024 compared to 10,811 kEUR for the same quarter last year. Segment Adjusted EBITDA increased by 10.9% to 1,975 kEUR from 1,781 kEUR while the segment Adjusted EBITDA margin was 17.8% compared to 16.5% for the corresponding prior-year period.

Revenue from our Materialise Manufacturing segment increased by 9.1% to 27,344 kEUR for the third quarter of 2024 compared to 25,056 kEUR for the third quarter of 2023. Segment Adjusted EBITDA amounted to 701 kEUR compared to 1,074 kEUR for the same period last year, while the segment Adjusted EBITDA margin was 2.6% compared to 4.3% for the third quarter of 2023.

Gross profit was 39,297 kEUR compared to 33,696 kEUR for the same period last year, while gross profit as a percentage of revenue increased to 57.2% compared to 56.0% for the third quarter of 2023.

Research and development (“R&D”), sales and marketing (“S&M”) and general and administrative (“G&A”) expenses increased in the aggregate by 11.8% to 35,856 kEUR for the third quarter of 2024 from 32,076 kEUR for the third quarter of 2023.

Net other operating income increased to 872 kEUR from 710 kEUR for the third quarter of 2023.

Operating result amounted to 4,313 kEUR compared to 2,330 kEUR for the third quarter of 2023.

Net financial result was (1,137) kEUR compared to 1,319 kEUR for the third quarter of 2023 reflecting the impact of unfavorable currency exchange effects.

The third quarter of 2024 contained income tax results of (138) kEUR compared to 363 kEUR in the third quarter of 2023.

As a result of the above, net profit for the third quarter of 2024 was 3,038 kEUR, compared to 4,013 kEUR for the same period in 2023. Total comprehensive income for the third quarter of 2024, which includes exchange differences on translation of foreign operations, was 3,777 kEUR compared to 3,242 kEUR for the corresponding 2023 period.

At September 30, 2024, we had cash and cash equivalents of 116,163 kEUR, compared to 127,573 kEUR at December 31, 2023. Gross debt amounted to 53,037 kEUR compared to 64,398 kEUR at December 31, 2023. As a result, our net cash position (cash and cash equivalents less gross debt) was 63,126 kEUR compared to 63,175 kEUR at December 31, 2023.

Cash flow from operating activities for the third quarter of the year 2024 was 6,870 kEUR, compared to 8,143 kEUR for the same period in 2023. Total capital expenditures for the third quarter of the year 2024 amounted to 7,328 kEUR.

Net shareholders’ equity at September 30, 2024 was 246,989 kEUR compared to 236,594 kEUR at December 31, 2023.

2024 Guidance

Mrs. de Vet-Veithen concluded, “The consistently strong operational performance of our business segments throughout the first nine months of this year strengthens our confidence that our full-year 2024 revenues will be within our previously communicated range of 265,000 to 275,000 kEUR. In spite of the integration of the recent FEops acquisition, we are also maintaining our Adjusted EBIT guidance of 11,000 kEUR to 14,000 kEUR for fiscal year 2024.”

Conference Call and Webcast

Materialise will hold a conference call and simultaneous webcast to discuss its financial results for the third quarter of 2024 on Thursday, October 24, 2024, at 8:30 a.m. ET/2:30 p.m. CET. Company participants on the call will include Brigitte de Vet-Veithen, Chief Executive Officer and Koen Berges, Chief Financial Officer. A question-and-answer session will follow management’s remarks.

To access the conference call by phone, please click the link below at least 15 minutes prior to the scheduled start time and you will be provided with dial-in details. Participants can choose to dial in or to receive a call to connect to Materialise’s conference call.

- <https://register.vevent.com/register/BI917a1a313443404588880cfb65baa3d1>

The conference call will also be broadcast live over the Internet with an accompanying slide presentation, which can be accessed on the company's website at <http://investors.materialise.com>. A webcast of the conference call will be archived on the company's website for one year.

Sandvik - Interim report third quarter 2024

21 October 2024

- Order intake SEK 28,796 million (28,927)
- Order intake, at fixed exchange rates, increased by 4%
- Revenues SEK 30,306 million (31,476)
- Revenue growth, at fixed exchange rates increased by 1%
- Adjusted EBITA SEK 5,866 million (6,312)
- Adjusted EBITA margin 19.4% (20.1)
- Adjusted EBIT SEK 5,382 million (5,815)
- Adjusted EBIT margin 17.8% (18.5)
- Adjusted profit before tax SEK 4,857 million (5,056)
- Profit for the period SEK 3,239 million (3,900)
- Adjusted profit for the period SEK 3,688 million (3,949)
- Earnings per share, diluted SEK 2.58 (3.10)
- Adjusted earnings per share, diluted SEK 2.94 (3.14)
- Free operating cash flow SEK 6,762 million (5,830)

Additional information may be obtained from Sandvik Investor Relations, phone +46 70 782 63 74 (Louise Tjeder).

A webcast and conference call will be held on October 21, 2024, at 1:00 PM CEST. Information is available at home.sandvik/investors

SAP to Release Third Quarter 2024 Results on October 21

15 October 2024

SAP SE will release its full results for the third quarter of 2024 on Monday, October 21.

SAP CEO Christian Klein and CFO Dominik Asam will host a virtual analyst conference to present Q3 financial figures, as well as an outlook on the current financial year. Media representatives may listen in on the [virtual analyst conference via Webcast](#) at 11:00 p.m. CEST/ 5:00 p.m. ET.

Tech Mahindra reports 153% YoY growth in PAT at Rs. 1,250 crores; interim dividend declared at Rs. 15 per share

19 October 2024

Tech Mahindra, a leading global provider of technology consulting and digital solutions to enterprises across industries announced the audited consolidated financial results for its quarter ended September 30th, 2024.

Financial highlights for the quarter (USD)

- Revenue USD 1,589 mn; up 1.9% QoQ, up 2.2% YoY
 - Revenue grew by 0.7% QoQ, up by 1.2% YoY in constant currency terms
- EBITDA USD 209 mn; up 11.3% QoQ, up 61.4% YoY
- EBITDA Margin 13.1%, up 110 bps QoQ, up 480 bps YoY
- Profit after tax (PAT) USD 149 mn; up 46.1% QoQ, up 150.7% YoY
- PAT Margin 9.4%, up 280 bps QoQ, up 560 bps YoY
- Free cash flow USD 157 mn
- New deal wins TCV USD 603 mn

Financial highlights for the quarter (₹)

- Revenue ₹ 13,313 crores; up 2.4% QoQ, up 3.5% YoY
- EBITDA ₹ 1,750 crores; up 11.9% QoQ, up 63.2% YoY
- Consolidated PAT ₹ 1,250 crores; up 46.8% QoQ, up 153.1% YoY
- Earnings per share (EPS) ₹ 14.10

Other Highlights

- Total headcount at the end of the quarter 154,273, up 6,653 QoQ and 3,669 YoY
- LTM IT attrition 10.6%
- Days of Sales Outstanding 94 days; up 1 day QoQ, down 3 days YoY
- Cash and Cash Equivalent at the end of the quarter ₹ 6,566 crores
- Interim dividend declared ₹ 15 per share

Mohit Joshi, Chief Executive Officer and Managing Director, Tech Mahindra, said, “We continue to progress on our strategic improvement efforts even as the overall IT services industry has remained soft. We have focused on strengthening client relationships and expanding the partner ecosystem while maintaining a sharp focus on operational excellence through project Fortius, which has resulted in an expansion of margins for the third sequential quarter.”

Rohit Anand, Chief Financial Officer, Tech Mahindra, said, *“This quarter we see consistent performance around increasing deal wins, revenue growth, cost optimization and steady free cashflow generation as we continue our journey towards FY27 stated targets. In line with our capital allocation policy the board has declared an interim dividend of Rs. 15 per share.”*

Key Wins

- Tech Mahindra opened a new logo with one of the largest US based Cards & Payments services provider for an AI-Ops based production management for the bank's applications in addition to a tech modernization program across ADMS, Data and Cloud & Infra engineering, making TechM the “Change the Bank” partner of the client.
- Tech Mahindra was selected by a leading European CSP for an Autonomous Operations Program, enabling them to provide best CX and transform into a highly digitally mature and innovative operator by leveraging TechM’s Network Services, ADMS and AI capabilities for its business, IT and workforce transformation.
- Tech Mahindra set up a strategic partnership with a Telco in Europe to collaborate on improving time to market, quality and operational efficiency. Tech Mahindra to support the BSS and OSS landscape and set up a central transformation office to drive continuous improvement across the organisation.
- Tech Mahindra opened a new logo with a European bank for a Temenos T24 implementation program to modernise the current core banking platform and provide ongoing support post implementation.
- Tech Mahindra was selected by a Canadian Communications, Media and Technology company for a managed services deal to deliver customer experience and support services, eventually supporting all lines of the customers business through the lifecycle of the contract.
- Tech Mahindra was selected by Australia’s leading telecommunications company to deliver customer experience services that enhances their journey to digital excellence and achieves industry leading customer excellence.

Business Highlights

- Tech Mahindra announced a strategic partnership to boost generative AI (gen AI) adoption and lead digital transformation for various entities of Mahindra & Mahindra (M&M). Tech Mahindra will leverage artificial intelligence (AI) and machine learning (ML) technologies to enhance various aspects of engineering, supply chain, pre-sales, and after-sales services for M&M. Tech Mahindra will also lead the cloud transformation and digitization of M&M’s workspace and deploy M&M's data platform on Google Cloud.
- Tech Mahindra announced the launch of TechM VerifAI, a comprehensive solution for validating and verifying the outcomes of Artificial Intelligence (AI) and GenAI projects. Through this solution, Tech Mahindra will help enterprises validate the end-to-end

lifecycle of AI-based projects, thereby, enabling them to scale their AI initiatives speedily.

- Tech Mahindra announced a collaboration with Microsoft to modernize workplace experiences with Copilot for Microsoft 365 for its customers and an initial 10,000+ employees across 15 locations. The collaboration positions Tech Mahindra as a leading Global Systems Integrator (GSI) adopting Copilot for Microsoft 365.
- Temenos signed an agreement with Tech Mahindra to provide a core banking offering on Temenos SaaS specifically designed for Electronic Money Institutions (EMIs) in the UK and Europe. EMIs will benefit from faster time to market, lower operational costs, scalable architecture, and access to over 100 curated Temenos Exchange fintech partners, to offer customized and differentiated services to their end customers.
- Tech Mahindra announced a strategic partnership with Discai to deliver a comprehensive, AI-powered Anti-Money Laundering (AML) solution that is developed, tested and validated to enhance transaction monitoring and ensure regulatory compliance for financial institutions by combining Tech Mahindra's extensive IT integration experience with Discai's state-of-the-art Artificial Intelligence (AI) and rule-based AML technology to offer financial institutions a reliable, compliant, and seamlessly integrated AML solution.
- Tech Mahindra signed a MOU with Marshall Group, to support Marshall's engineering programs in aircraft design and manufacture, special mission platforms, and for the development of digital MRO technologies. Marshall will leverage Tech Mahindra's expertise in data analytics and intelligent field support technologies to enhance its infrastructure solutions operational efficiency and reliability.
- Tech Mahindra announced a strategic partnership with Horizon3.ai to elevate the cybersecurity landscape. The partnership will integrate Horizon3.ai's cutting-edge NodeZero™ platform, delivering integrated threat detection, AI-powered pentesting, and Governance, Risk, and Compliance (GRC) insights, with Tech Mahindra's comprehensive suite of cybersecurity services.
- Tech Mahindra and LivePerson Inc. announced a partnership to transform customer engagement in the financial services and HLS (Healthcare and Life Sciences) industries. The partnership will address the unique challenges and opportunities by combining LivePerson's cutting-edge conversational platform and AI technology with Tech Mahindra BPS extensive domain expertise.
- Tech Mahindra announced the expansion of its BPS business in the Baltic States with a new centre in Riga, Latvia. The expansion will help Tech Mahindra bolster its presence in Europe, providing local and regional customers with direct access to its comprehensive range of services.
- Tech Mahindra signed a MOU with the University of Auckland (UoA) to accelerate research and innovation in artificial intelligence (AI), machine learning (ML), and quantum computing across various industries, including healthcare, banking, financial

services, and insurance. This also includes cooperation with the government sector. Tech Mahindra and UoA's collaboration will enhance the cooperation between industry and academia, with the goal of improving UoA graduates' employability.

- Tech Mahindra signed a MOU with Northeastern University to accelerate innovation in Open Radio Access Networks (ORAN) and 6G connectivity. The collaboration will focus on the R&D and testing of next-generation wireless networks for global customers. Tech Mahindra and Northeastern University will develop industry-leading solutions in ORAN and 6G, focusing on large-scale testing and certification of the ORAN ecosystem by leveraging Tech Mahindra's deep domain expertise in telecom, and Northeastern University's Open6G Open Testing and Integration Center (OTIC).
- Tech Mahindra announced its association with the 45th Chess Olympiad by FIDE (International Chess Federation) as the General Sponsor, which took place from September 10 to 23 in Budapest, Hungary. The Olympiad was one of the biggest sporting events globally, with 196 teams competing in the Open Section and 184 teams in the Women's Section. In addition, Tech Mahindra and FIDE have been revolutionising the historic game through various initiatives over the years, one such initiative being the Global Chess League, a unique joint venture with FIDE launched in 2023.

Awards and Recognitions

- Tech Mahindra won the 2024 Oracle Best in Class Innovation Partner Award for Apps Service Partners
- Tech Mahindra's Populii awarded Frost & Sullivan's 2024 Global Competitive Strategy Leadership Award for revolutionising crowdsourcing with its gig economy solution
- Tech Mahindra recognised amongst the 'Best Tech Brands 2024' by ET NOW
- Tech Mahindra ranked #1 in BusinessWorld's 'Most Sustainable Companies Sectoral List 2024'
- Tech Mahindra continues to be a constituent of the 'FTSE4Good Index Series' for 8th consecutive year
- Tech Mahindra recognised as one of the 'World's Top 50 Most Sustainable Businesses' at SEAL 2023 Business Sustainability Awards
- Tech Mahindra recognised amongst 'World's Most Trustworthy Companies 2024' by Newsweek & Statista
- Tech Mahindra recognised amongst 'Most Preferred Workplace for Women 2024-25' by Team Marksmen
- Tech Mahindra recognised as one of the 'Most Trusted Companies 2024' at The Infotech Forum 2024 by VAR India
- Tech Mahindra received an award for 'Excellence in Health & Safety Initiatives' at BW People HR Excellence Awards 2024

Trimble Third Quarter 2024 Earnings Call and Webcast

23 October 2024

Trimble will hold a conference call on Wednesday, November 6, 2024 at 8 a.m. ET to review its third quarter 2024 results. The call will be broadcast live on the web at <http://investor.trimble.com>. Investors without internet access may dial into the call at (888) 660-6347 (U.S.) or (929) 201-6594 (international). The conference ID is 1043223.

Implementation Investments

European Energy Infrastructure Company Snam Embarks on Strategic Sustainable Project with Dassault Systèmes' 3DEXPERIENCE Platform

24 October 2024

Dassault Systèmes announced that Snam, the leading and pan-European gas infrastructure operator, is accelerating its digital transformation with the 3DEXPERIENCE platform at the core of a new asset management project to drive a sustainable energy transition.

Snam will use the 3DEXPERIENCE platform to create virtual twins of its gas pipelines network, storage sites and liquefied natural gas (LNG) terminals in Italy, as well as the future assets it develops to diversify energy resources. Snam can manage and optimize asset operations, improve structural safety, and reduce emissions.

Snam's extensive ecosystem of assets and operators provides a stable supply of energy throughout Italy and internationally. With the ambition to develop energy infrastructure for a sustainable future, the company wanted to implement technology to manage existing and future assets in a more collaborative way, streamline engineering, and enhance the assets' effectiveness, safety and reliability.

The 3DEXPERIENCE platform will enable Snam to connect all stakeholders around virtual twins that simulate this complex asset network, and will integrate real-time data and information collected by sensors in the field seamlessly.

"Operational efficiency and safety are imperatives for delivering affordable and accessible energy services. Our 3DEXPERIENCE platform enables utility companies like Snam to maintain assets throughout their life cycle, adapt them to ensure that energy systems work when they are needed most, and deliver new solutions," said Remi Dornier, Vice President, Architecture, Engineering and Construction Industry, Dassault Systèmes.

John Deere, Trimble Partner to Deliver Advanced Technology Solutions to More Construction Customers Worldwide

22 October 2024

Trimble® announced a new strategic relationship with John Deere that will accelerate the innovation and adoption of grade control technology for the construction industry. The availability of the Trimble Earthworks Grade Control technology integrated with the John Deere

SmartGrade™ platform will make it easier for John Deere customers around the world to leverage the full benefits of machine control for increased productivity, efficiency and better decision making.

For more than a decade, John Deere has offered a Trimble Ready® option on select machines to simplify installation in the aftermarket. With this expanded relationship, select John Deere machines equipped with SmartGrade technology will make Trimble Earthworks available direct from the factory or as a field upgrade. This integration will allow machines equipped with SmartGrade to fit seamlessly into the Trimble technology ecosystem simplifying the ways to connect the office to the field and leverage jobsite data.

"Our mission is to help our customers maximize their productivity and profitability, especially when it comes to incorporating valuable technology solutions into their equipment fleets," said Jerred Pauwels, vice president, earthmoving production systems & engineering, John Deere. "Our partnership with Trimble presents a tremendous opportunity for our customers to access Trimble's advanced technology ecosystem. Paired with the power and performance of the John Deere construction equipment line-up with SmartGrade, our customers will be able to make productivity gains, at the jobsite and beyond."

This collaboration not only enhances jobsite safety and efficiency, but also demonstrates a strong commitment by both companies to promote the adoption of machine control technology in the construction industry. To make adoption seamless for the customer, various purchasing options will be available in the future for John Deere SmartGrade with Trimble Earthworks, including factory direct or field installations, and as part of the Trimble Construction One suite of digital solutions.

Integrating Trimble Earthworks will provide John Deere customers greater access to Trimble's construction technology ecosystem. This approach presents more ways for the customer to elevate their operations by effectively connecting and managing data throughout the design-build-operate lifecycle of construction projects.

"Trimble is committed to making it as easy as possible for civil construction contractors on jobsites all over the world to benefit from the use of machine control technology, regardless of what type of heavy equipment they use," said Ron Bisio, senior vice president, field systems at Trimble. "Our Connect & Scale strategy enables smarter operations across digital and physical domains. We are excited to team up with John Deere to advance this mission and better serve their customers' preferred workflows."

Kering Beauté Selects Centric Software's Product Lifecycle Management (PLM) Solution

23 October 2024

Kering Beauté has selected Centric Software® and completed the first phase of the rollout of Centric PLM™. Centric Software provides the most innovative enterprise solutions to plan, design, develop, source, buy, make, price, allocate, sell and replenish products such as fashion,

outdoor, luxury, multi-category retail, grocery, food & beverage, cosmetics & personal care and consumer electronics to achieve strategic and operational digital transformation goals.

The new partnership between Kering Beauté and Centric Software has adopted a phased rollout approach, with the first phase focused on the product development teams and the second on the packaging development teams.

“The Kering Beauté project is innovative in that it involves rolling out Centric PLM from the early days of the brand’s journey within the Kering Group. We essentially started from a blank canvas, which will ensure a streamlined process from the start and into the future,” says Chris Groves, CEO of Centric Software. “We are thrilled that Kering Beauté has selected Centric Software as its trusted partner.”

MarkaLAB Thrilled with Centric PLM Kick Off

22 October 2024

Centric Software® is pleased to announce that MarkaLAB, the Turkish design, merchandising, manufacturing and distribution company specializing in sportswear and fashion apparel successfully went live with Centric PLM™ and is now poised for international supply chain growth. Centric Software provides the most innovative enterprise solutions to plan, design, develop, source, buy, make, price, allocate, sell and replenish products such as fashion, luxury, footwear, outdoor, home and related goods like cosmetics & personal care as well as multi-category retail to achieve strategic and operational digital transformation goals.

The rapidly growing MarkaLAB delivers innovative and trend-setting brand merchandise for some of the world’s most successful brands including Skechers, Lee, Wrangler, Nautica and Hugo Boss. Founded in Turkey in 2019, its team of 600 specializes in identifying market gaps and trends to execute their clients’ vision from concept to distribution. It boasts an in-house factory and displays and stores 2.5 million pieces each year in its showrooms and warehouses. Since capitalizing on the Turkish market, MarkaLAB has now set its sights on expanding its international supply chain.

MarkaLAB partnered with Centric Software in 2023 and adopted Centric PLM when it reached the limits of growth at its existing scale. Realizing the competitive power of a modern, centralized platform to manage the full range of sourcing, development, production and distribution, MarkaLAB took the next step in the evolution of its strategic plan to expand its supply chain with PLM. The company went live with the system in January 2024 and the project was on-time, on-budget and within scope.

“We’re early in the rollout and our design, product, garment and sourcing departments have been using PLM for about three months,” says Yigit Deryali, Process Development & Project Executive at MarkaLAB. “However, so far Centric PLM is extremely user-friendly, and we were able to quickly train teams to adapt. The onboarding process has been smooth.”

“PLM teaches us how to work more effectively and improve our processes,” shares Deryali. “We’ve been able to leverage Centric’s expertise and best practices and the implementation team worked very closely with us on key decisions, which led to a successful project.”

MarkaLAB expects PLM to reduce complexity with a 'single source of truth' for its vast amount of product data and drive efficiencies in scheduling and client calendar management. It expects to reduce order times by one to two months this season, as well as to streamline product development processes and drastically reduce time to market. In addition, they are planning to connect their 3D fashion design software and explore AI (Artificial Intelligence) technology integrations to automate more processes.

MarkaLAB has three pieces of advice for companies considering implementing Centric PLM — trust the knowledge and expertise of the Centric team, analyze internal processes to align with PLM and identify key users to engage them throughout the process.

"I would like to thank the Centric team, they have been excellent to work with and are a genius team," says Mahir Toprak, IT & Purchasing Director at MarkaLAB. "We've had much support since the very beginning of our journey with Centric and the consultants have demonstrated deep technical expertise."

"We are thrilled with the successful PLM rollout and the impressive results MarkaLAB has achieved to date both internally and with its international customers," says Fabrice Canonge, President of Centric Software. "We look forward to a long-term partnership and to MarkaLAB's continued success and global growth."

R.M. Williams Chooses Centric PLM to Drive Global Expansion

24 October 2024

Centric Software® is pleased to announce that R.M. Williams, the iconic Australian boot brand, has selected Centric PLM™ to drive efficiency for its global teams. Centric Software provides the most innovative enterprise solutions to plan, design, develop, source, buy, make, price, allocate, sell and replenish products such as fashion, luxury, footwear, outdoor, home and related goods like cosmetics & personal care as well as multi-category retail to achieve strategic and operational digital transformation goals.

R.M. Williams was founded in 1932 by Reginald Murray Williams and is headquartered in Adelaide and Sydney, Australia. The brand is known for its high-quality leather boots and has expanded its offerings to include a wide range of apparel and accessories. R.M. Williams products are sold through 65 retail stores in Australia, as well as stores in New Zealand and the UK. The brand's products are available through various channels, including retail stores, online platforms and authorized retail partners.

R.M. Williams's adoption of Centric PLM aims to achieve several key objectives, including enhancing market responsiveness, establishing a single source of truth for product data and streamlining its design and product development processes. This strategic move aligns with R.M. Williams's broader goals of global expansion and delivering exceptional products that resonate with its consumers.

"R.M. Williams has always been synonymous with quality and durability. As we continue to scale globally, it's important to streamline our processes and improve collaboration across teams," says Paul Grosman, Chief Executive Officer. "Centric PLM provides us with a robust platform to

manage our product development efficiently, enabling us to drive further expansion into new markets and categories.”

The selection process for Centric PLM involved a thorough evaluation of several PLM solutions. In the end, Centric PLM stood out due to its user-friendly interface, innovative product roadmap and local implementation support.

The expected benefits of implementing Centric PLM for R.M.Williams include improved decision making for its Design & Product, Merchandising, Supply Chain and Commercial teams globally. Additionally, Centric PLM will improve product data accuracy, reduce errors and shorten time to market. “Adopting Centric PLM is a natural fit for our commitment to innovation,” says Rachel Allen, Chief Design & Product Officer. “We expect to be more agile and responsive to market changes while ensuring we maintain our high standards of quality and craftsmanship.”

“Partnering with a brand as iconic as R.M.Williams is an incredible opportunity for us,” says Fabrice Canonge, President of Centric Software. “We look forward to working with them on their digital transformation journey and achieving their global expansion goals.”

Sev1Tech Awarded \$188M Contract by U.S. Space Force Space Systems Command

17 October 2024

Sev1Tech, a leader in information technology, engineering, program management, C5ISR and cybersecurity support services, has been selected by the U.S. Space Force (USSF) Space Systems Command (SSC) to provide expanded support for the meshONE-Terrestrial network. meshONE-T is a scalable, resilient, secure Wide Area Network that supports the high-speed exchange of large volumes of mission critical data.

Sev1Tech developed the prototype for meshONE-T, which supports critical USSF missions and the Department of Defense’s Joint All-Domain Command and Control initiative. The high-bandwidth communications and edge connectivity offered through meshONE-T provides customers with data sharing capabilities required to enable their mission success.

To date, meshONE-T has been deployed to over 20 USSF and U.S. Air Force (USAF) sites averaging 1 site deployment a month and an expanded capability to deploy 2 sites a month in the follow on.

“Over the past three years, we’ve had the opportunity to support the U.S. Space Force’s meshONE-T prototype and initial deployment. meshONE-T has enabled warfighters to seamlessly exchange critical data across services and domains, directly impacting mission success,” said Bob Lohfeld, CEO at Sev1Tech. “The expansion of these services will enable greater access to its transformational impact.”

The new agreement will expand meshONE-T services to over 60 locations, enhancing its capabilities with 24/7/365 managed transport services and enterprise-wide upgrades. The contract is worth \$188 million as a follow-on production agreement.

Siemens partners with Alliander to accelerate flexible grid management in the Netherlands

23 October 2024

Siemens and Alliander, a major Dutch network company, with its daughter company Liander, the biggest Dutch distribution system operator (DSO) in the Netherlands, have entered a strategic partnership to accelerate the energy transition and tackle key challenges in distribution grid management. Siemens' Gridscale X platform will be used by Alliander to reduce grid congestion and increase grid utilization. It is estimated that this partnership could extend the grid usage in the Netherlands by 10 to 30 percent.

Alliander is an energy utility company that distributes gas and electricity in the Netherlands, serving approximately 3.5 million customers. With more than half of Dutch energy now coming from renewable sources and increasing customer demand (with waiting lists up to 10 years), ensuring reliable energy supply and grid stability is essential. Flexibility is crucial to address these challenges, as it can help identify which grid segments require capacity upgrades, and which can be managed by flexibility, optimizing resource allocation, and reducing unnecessary costs, to connect customers faster.

"Flexibility management is vital for a sustainable and resilient grid, making it possible to efficiently integrate renewable energy sources and meet the evolving demands of our modern energy system. That is why we are delighted to combine forces with a key ecosystem partner such as Alliander. Using our Gridscale X platform, they will be able to increase their flexibility management capabilities, and scale their customer satisfaction," said Sabine Erlinghagen, CEO of Siemens Grid Software.

Daan Schut, Chief Transition Officer and Member of the Board of Alliander, added "Alliander faces immense challenges with the energy transition, resulting in customers awaiting grid connections. To tackle this, over the past few years we have been developing and building solutions that enable Alliander to increase grid utilization. We follow an open strategy and are willing to cooperate with other DSOs and industry partners. The vision is to create an ecosystem of organizations building and operating solutions fit to handle the challenges of the energy transition. Partnering and sharing knowledge of software with Siemens allows us to leverage their open and interoperable software to develop solutions that will help us ensure a more stable, sustainable grid for our customers."

Workhorse Group standardizes on Siemens Xcelerator as a Service for sustainable last mile delivery electric trucks

22 October 2024

Siemens Digital Industries Software announced that Workhorse Group Inc. (Workhorse), an American technology company focused on pioneering the transition to zero-emission commercial vehicles, has adopted the Siemens Xcelerator portfolio of industrial software, enabling the company to streamline activities across its development teams and supply chain as it builds electric trucks for sustainable last mile delivery.

Workhorse Group launched its lineup of medium-duty electric work trucks with the help of Teamcenter® X software for cloud-based Product Lifecycle Management (PLM) and NX™ software for vehicle product engineering and manufacturing.

"Standardizing on NX and Teamcenter X has allowed us to integrate our design, engineering, and supply chain functions efficiently," said Jeff Mowry, Chief Information Officer at Workhorse Group. "Previously, our multi-CAD environment was costly and required extra resources. With Siemens, we've eliminated these inefficiencies and can focus on building complex electric trucks more effectively."

Workhorse was able to implement Teamcenter X Software-as-a-Service (SaaS) quickly, which helped solve the time pressure in engineering its flagship product, the Workhorse W56 all-electric step van. In collaboration with Siemens partner, PROLIM, Workhorse was able to get into production with PLM using dramatically fewer IT resources than required by traditional on-premises legacy solutions.

"Using Siemens' tools, we are able to effectively manage our intricate bill of materials and engineering change notices, which is key given the dynamic nature of electric vehicle production," Mowry added. "This strategic move has not only lowered our operational costs but also strengthened our ability to protect intellectual property and ensure cybersecurity."

"Workhorse standardized on NX combined with Teamcenter X because it delivers the design, integration and data control functions we require to support vehicle production, product development and manufacturing – for any range of product production volumes," said Dave Bjerke, vice president of engineering, Workhorse. "Siemens Xcelerator is the digital foundation at the core of our business processes, enabling Workhorse to leverage its capabilities and achieve the innovation at scale and pace we need to achieve our targets."

"Workhorse is a great example of how innovative start-ups can transform the transportation and electrification industry with the right digital foundation," said Nand Kochhar, vice president, Automotive and Transportation, Siemens Digital Industries Software. "By leveraging the Siemens Xcelerator portfolio with its cutting-edge design tools backed up with secure, robust and scalable data management platform, Workhorse is making incredible progress toward bringing electric vehicles for last mile delivery to market in record time."

Looking ahead, Workhorse is exploring ways to expand its use of Siemens' software, including the implementation of a configurator module to handle more complex product variations and a supply chain module to improve supplier collaboration.

Product News

ALLPLAN Launches New ALLPLAN Civil Product

23 October 2024

ALLPLAN, a global provider of AEC software, has announced the launch of a new ALLPLAN Civil product, a comprehensive update that integrates the enhanced civil structural modeling capabilities of ALLPLAN (and the product formerly known as ALLPLAN Bridge) into a unified

solution for planning, designing and detailing of all types of transportation infrastructure projects.

The newly formulated ALLPLAN Civil product offers a complete design-to-build workflow, particularly optimized to meet the requirements of the transportation infrastructure sector. With ALLPLAN 2025 this also includes an end-to-end approach for precast girder bridges with automated processes that significantly improve efficiency across design and analysis, detailing for fabrication and construction.

ALLPLAN Civil unifies three advanced parametric modeling approaches that support conventional modeling and provide effective approaches for the expanded scope of civil structures. These include axis-based modeling technology (extrusion of cross-sections along a road axis), polygonised modeling and free parametric modeling.

Users can now also benefit from better project handling and data management through improvements to navigation trees, while enhanced parametric intersections and digital terrain modeling capabilities provide superior road design results.

Increased engineering efficiency with SCIA Ultimate

To further support engineers in delivering high quality infrastructure projects, ALLPLAN Civil also includes the latest version of SCIA Ultimate.* This addition delivers powerful new engineering design and analysis tools, enabling users to make optimal decisions through connected structural engineering workflows. With the enhanced AutoConverter tool and a direct link to BIMPLUS, users will experience significant time savings and improvements in overall project quality.

"ALLPLAN Civil builds on our commitment to provide state-of-the-art solutions for the design of transportation infrastructure," said Gregor Strekelj, Product Manager Infrastructure at ALLPLAN. "By combining our advanced civil modeling technologies with analysis tools and detailing functionality, we're providing users with an integrated, powerful solution that enhances every aspect of the design process."

Key Features of ALLPLAN Civil:

- Parametric modeling approaches allowing users to effortlessly define a wide array of structures.
- Design-to-build workflow for precast girder bridges with automated processes, improving efficiency and reducing manual tasks.
- Advanced parametric intersections and improvements in digital terrain modeling for superior road design.
- Integration of SCIA Ultimate*, providing new engineering tools and improved decision-making through connected structural analysis workflows.
- By using predefined templates for common design elements, engineers can quickly create detailed models and ensure consistency across projects.

Availability

ALLPLAN 2025 including ALLPLAN Civil is now available for download.

* not available in Austria.

Beck Technology Launches Game-Changing Alternates Feature in DESTINI Estimator

22 October 2024

Beck Technology, a leading preconstruction software company, has announced the release of a groundbreaking feature, *Alternates*, within its flagship DESTINI Estimator software. This powerful update enhances preconstruction workflows, empowering users to create and manage alternates seamlessly, leading to faster, more accurate estimates and greater project success.

With this feature, DESTINI Estimator offers unprecedented control over the creation and organization of alternates, enabling users to streamline the presentation of different project options to clients. This capability reduces the effort required to showcase various project alternatives, helping preconstruction teams win more work and deliver the right outcomes in a fraction of the time.

Key Features and Value:

- **Presentation Made Easy:** The new Alternates feature simplifies the presentation of various project scenarios, driving faster decision-making and improving client satisfaction.
- **Fees Per Alternate:** The feature supports the process of accurate cost estimation, enabling teams to apply specific fees to each alternate, increasing the speed of estimates without sacrificing precision.
- **Takeoff Per Alternate:** Alternates allow changes to be applied directly to the estimate, reducing the risk of overlooking important items when evaluating alternates or value engineering (VE) options.
- **Cross-Project Insights:** The ability to organize and view alternates across multiple projects empowers teams with better insights, improving project outcomes by facilitating more informed decisions.
- **Efficient Filtering and Grouping:** The advanced functionality to filter, sort and group alternates provides a streamlined workflow, delivering estimates faster than ever before.
- **One-Click Alternate Integration:** With just a single click, users can roll alternates into the base estimate, reducing both time and risk while ensuring all elements are accounted for.

"With this feature, DESTINI Estimator offers unprecedented control over the creation and organization of alternates, enabling users to streamline the presentation of different project options to clients. This capability reduces the effort required to showcase various project

alternatives, helping preconstruction teams win more work and deliver the right outcomes in a fraction of the time," says Mike Boren, Chief Product Officer for Beck Technology.

The Alternates feature is now available for all DESTINI Estimator users and is expected to further solidify Beck Technology's role as a leader in preconstruction software innovation.

BricsCAD® V25 launches with more smart features to speed up design projects

23 October 2024

Bricsys® unveiled the latest professional CAD, BIM, and Mechanical software with the launch of BricsCAD® V25. During the virtual event, the Bricsys product teams showcased over sixty smart features designed to automate and accelerate workflows. Each of BricsCAD's products benefits from new or enhanced tools that help users complete designs faster.

Jan Syssauw, Vice President of Product and Development, introduced the advances made inside BricsCAD V25. He said Bricsys' product innovation focused on users and their businesses' needs: *"Making design and collaboration work more efficient and faster through our smart and easy-to-access features, ... leveraging sophisticated tools without a steep learning curve."*

The Bricsys' team revealed the innovative tools in an hour packed with product and workflow demonstrations. Key highlights from Bricsys' all-in-one CAD solution include:

- Productivity features in a familiar UI for CAD, BIM, Mechanical, and Civil users
- Innovative 2D/3D workflows to harness 2D/3D data
- Smart approaches for fast modeling capabilities and skills
- Enhanced Drawing Health tools for DWG fidelity and accurate deliverables
- Extended commands and functions for workflow parity with users' other CAD tools

BricsCAD® Lite and BricsCAD® Pro

BricsCAD Lite V25 and BricsCAD Pro V25 have new tools and features to give users the best, easy-to-use CAD software for design and drafting.

Customer-driven updates add new features to accelerate 2D drafting, optimize 3D workflows, and work with DWGs from multiple sources:

- Enhanced 2D drafting and detailing tools
- Commands to automate 2D geometry creation and detailing workflows
- Enhanced DWG interoperability: drawing health, XREF search, and geometry, annotation, and print commands

BricsCAD® BIM

BricsCAD BIM V25 introduces new BIM tools in an open BIM modeling software built on a familiar DWG-based platform.

The latest tools make BricsCAD BIM the easiest path for CAD users to deliver and exchange IFC models: efficient design changes, precise BIM data exchange, and LOD and LOI adherence.

- Smart 3D modeling to edit 3D digital assets for 2D documentation
- Tools to exchange BIM data without complexity: IDS XML and Georeferenced IFC
- Automated scan-to-BIM to bring reality-capture data into a simple, fast workflow

BricsCAD® Mechanical

BricsCAD Mechanical V25 offers the fastest route to complete and accurate production materials, inside a familiar, DWG-based CAD software for engineering and manufacturing.

New tools for fast 2D mechanical design and drafting, optimizing manufacturing workflows, and leveraging 3D models for 2D documentation include:

- AutoCAD® user familiarity: Dialogs, Annotation, and 2D FEA features
- DFX optimization tools: Assembly Sequence and Assembly Inspection
- 3D to 2D tools for accurate documentation: fast annotation for SVG files

BricsCAD® Pro for Civil and Survey users

BricsCAD Pro V25's Civil/Survey Toolset unlocks new capabilities tailored for surveyor and civil engineering workflows.

New and enhanced features simplify survey-data integration and streamline construction documentation in BricsCAD:

- Data collection: import survey data from Leica in one click
- Drafting tools for surveyors: 3D String, Linear labels and tables, and Curve Calculator
- Deliver accurate terrain models: TIN Surface smoothing

The Bricsys team reaffirmed its commitment to offering flexible licensing options, including perpetual licenses and 12-month subscriptions, with floating licenses available for multi-user networks. BricsCAD Lite, BricsCAD Pro, BricsCAD BIM, and BricsCAD Mechanical can be purchased individually or as an all-in-one solution with BricsCAD® Ultimate, which encompasses CAD, BIM, and Mechanical design capabilities.

Chaos Continues its Impressive 2024 With Two Product Debuts at Autodesk University

15 October 2024

At Autodesk University, award-winning software maker Chaos will offer the first look at its latest products: Chaos Envision, a new assembly, animation and presentation solution for visualization specialists and designers, and V-Ray 7 for 3ds Max, the latest version of its industry-leading photorealistic renderer. Show attendees will have the opportunity to view the products in action and see how they expand the Chaos ecosystem to meet the needs of artists, architects and designers.

"As the Chaos ecosystem continues to grow, we are delivering exciting new capabilities and solutions that empower users and give them better ways to connect and simplify their workflows," said Stephan Sieber, Chaos CEO. "By focusing on customer-centric innovations that

address real-world challenges, we continue to transform our customers' day-to-day work and the designs they deliver."

Chaos Envision enables archviz specialists to quickly assemble rich scenes with new levels of realism and motion that would be impossible to construct in traditional CAD tools. With unparalleled scale comes more freedom to explore and present a design's true possibilities. Each design will benefit from the accuracy of full, real-time ray tracing and can easily be populated with custom crowds of realistic humans from Envision's extensive library. This flexible and intuitive animation system also makes it easy to craft and publish videos that put architectural storytelling at the forefront.

Chaos will also offer the first look at V-Ray 7 for 3ds Max, offering a host of new capabilities headlined by Gaussian Splat rendering, giving artists the ability to incorporate real-world sites or objects they generated from photos or video. The new version of the popular renderer also includes new options for lighting, scattering, removing fireflies, vignetting, caustics, automatic virtual tours, production profiling and much more. More details on V-Ray 7 for 3ds Max and Chaos Envision will be announced in the coming weeks.

Expanding the Chaos Ecosystem

The introduction of Chaos Envision and V-Ray 7 for 3ds Max are the latest in a series of major product introductions and new versions from Chaos in 2024, capping off one of the biggest years in the company's 25+ year history. In the last year, Chaos has released several new products and updates aimed at expanding its unified ecosystem.

Some of the latest releases from Chaos include:

- **Project Arena** — An all-new virtual production toolset, designed to offer studios a faster, simpler alternative to game engines. With Project Arena, artists can move V-Ray assets and select animations to LED walls in a few minutes, accessing real-time ray tracing with pipelines they know and trust. Commercial availability is expected early next year.
- **Enscape 4.1** — Features real-time artistic visual modes to help designers focus on the most relevant design decisions at the right times. A new version of Enscape will soon be available.
- **Enscape Impact** — A new building performance add-on lets designers analyze a project's energy efficiency and visualize the results in real-time directly in the Enscape interface.
- **Corona 12** — The latest version of Corona brings the power of real-time GPU rendering through an integration with Chaos Vantage. Designers can explore, render and animate scenes in real-time, opening up a much faster workflow.

Free trials are available for Chaos software and educational pricing is available. Additional product announcements are planned for the remainder of 2024, with more scheduled in 2025. Details and pricing on all current Chaos products can be found [here](#).

Commitment to Sustainability and Building Performance

As part of its ongoing mission to increase awareness around how technology can fuel sustainability and combat climate change in construction, Chaos recently announced a new partnership with IES, a leading global innovator of sustainable analysis technology.

“Sustainability is no longer a choice, but instead a necessity for the future of architecture and design,” said Roderick Bates, Head of Corporate Development at Chaos. “Our partnership with IES collapses design and environmental analysis into a single workflow, supporting the integration of energy performance into the earliest stages of the creative process.”

By leveraging the analytic tools of IES, Enscape users can now access the new Enscape Impact add-on that allows them to quickly view the energy performance of their building designs — including energy usage today and thermal comfort and daylight in future releases— to optimize it within their usual visualization workflow.

Earlier this year, Chaos also released its Architects of Change report, a newly commissioned study that asked thousands of urban residents across the globe to identify their major concerns about living in cities and what they wanted from future developments. The data offers architects, designers and city planners a roadmap to design cities of the future, while helping to combat climate change and encourage sustainability.

Empowering Artists, Designers and Architects with AI

Along with several product debuts, new features and new studies aimed at better understanding the needs of users, Chaos also saw its Chaos Innovation Lab unveil several new AI-powered tools, designed to help improve workflows, efficiency and visualization quality.

"Chaos believes AI should not be used to replace creativity, but to enhance it," said Vladimir 'Vlado' Koylazov, Chaos Co-founder and Head of Innovation. “We integrate AI into our tools in ways that allow designers to focus on their vision while letting the technology streamline repetitive tasks and enhance the photorealism of the results.”

In addition to the launch of AI Enhancer, Chaos Innovation Lab has several AI features in development, including PBR Material Generation & Enhancement, Automatic Asset Placement, a Cylindo Lifestyle image generator for e-commerce and more features for enhancing rendered images.

Autodesk University 2024 Demos and First Looks

Along with exclusive first looks at Chaos Envision and V-Ray 7 for 3ds Max, Autodesk University attendees can also stop by Chaos booth #654 and see live demos of Enscape Impact and Chaos Cloud. Private demos are available for press upon request.

CoreLogic Adds Tax Transcripts Retrieval Solution to AutomatIQ Borrower Platform

23 October 2024

CoreLogic® announced the addition of a new Tax Transcripts solution to its AutomatIQ® Borrower platform, providing mortgage professionals and their clients with efficient, rapid and

reliable tax transcripts retrieval options. This enhancement consolidates three offerings into a single solution, allowing lenders to select the most suitable options based on their specific needs and the complexity of the loan. The options include the traditional 4506-C Direct, 4506-C Borrower Assisted form for near-instant transcripts, and the cost-effective Form 8821, ideal for loans with multiple borrowers.

On October 1, 2024, the IRS doubled the Income Verification Express Service (IVES) fees for requests for the 4506-C Direct; however, CoreLogic has made the more cost-effective 4506-C Borrower Assisted and Form 8821 easily accessible in AutomatiQ Borrower. By moving to use these solutions jointly, lenders can have options to save money and have more accurate applications – nearly 15 percent of all applications are currently rejected by the IRS for simple mistakes, like incorrect addresses, names or social security numbers.

AutomatiQ Borrower protects borrowers' sensitive data during the income verification process, helping prevent mortgage fraud and increasing borrowers' confidence in the safety of their information.

"Embracing the latest security technology for verification is crucial for industry professionals as borrowers expect a more digital, secure and transparent application process," said Praveen Chandramohan, CoreLogic senior vice president, origination growth solutions.

CoreLogic Unveils Navigate: Advanced Catastrophe Risk Modeling Simplified

22 October 2024

CoreLogic®, a leader in global property information, analytics, and data-enabled solutions, has introduced CoreLogic Navigate™, a new cloud-based analytical portal designed for flexible delivery of CoreLogic's global suite of more than 185 high-fidelity catastrophe risk models. The new platform optimizes workflows, enabling scalability, accessibility and faster run times for efficient risk assessment and timely decision making.

"Over the past decade, we've significantly increased our investment in catastrophe modeling due to changing weather patterns," said Garret Gray, President of CoreLogic Global Insurance Solutions. "The market's demand for a reliable, straightforward catastrophe modeling service is at an all-time high. Risk professionals need easy access to trustworthy models and Navigate offers flexible risk assessment with precise detail for today's dynamic risk landscape."

Navigate's flexible cloud-based platform and API-first architecture provide direct access to sophisticated models with quick run times without compromising quality and accuracy. With no hardware needs, Navigate offers a lower total cost of ownership when compared to on-premises solutions.

CoreLogic's catastrophe risk solutions are built on the latest scientific research, deep engineering knowledge, and a breadth of claims and exposure data to deliver a granular view of global catastrophe risk. The global model suite encompasses six continents, 100+ countries/territories, for the perils:

- Flood

- Wildfire
- Severe Convective Storm
- Earthquake
- Hurricane & Typhoon
- Extra-Tropical Cyclone

Cyncly Scan helps create detailed floor plans in seconds

23 October 2024

Cyncly, the leading global provider of software and content solutions that help make amazing spaces for living, now enables users of its industry-leading products – Winner Flex, Spaces Flex, Innoplus and SimpliPlan – to quickly map a room using LIDAR and import data directly into project plans. Designers, builders and installers alike can now easily map a room using readily available tools including an iPhone Pro, iPad Pro or a laser rangefinder, creating detailed floor plans with just one click.

Cyncly Scan, available on the App Store, is an AI-assisted mobile measuring application. As part of the Cyncly Flex platform, it allows users to scan a room and quickly generate precise measurements for use in Cyncly design tools including Winner Flex, Spaces Flex, and Innoplus. Users of SimpliPlan can use the tool's built-in Room Survey to similarly create a floor plan with a single click. Cyncly Scan, Room Survey and SimpliPlan provide retailers with accurate room dimensions, including doors and windows, streamlining the design process and reducing time spent on measurements and collection of room constraints.

“We understand how crucial it is for our customers to be able to advance their designs quickly,” said Mitchell van Vliet, VP Sales of EMEA. “Cyncly Scan and Room Survey enable them to work more efficiently, minimizing friction in the early stages of a project. This allows for better customer engagement and faster project completion. With the cloud capabilities of Winner Flex, for example, designers can take the digital floor plan and create stunning spaces right in front of the customer, or share layouts instantly with their colleagues.”

Cyncly's range of tools help designers and retailers engage with consumers, create amazing kitchens and bathrooms, and deliver projects faster and more profitably. Winner Flex, an industry-leading software for kitchen retailers, empowers users to design and sell stunning, customized spaces with ease. Spaces Flex offers an integrated, online space planning software that enables consumers to start the buying journey at home or in person with a professional designer. Innoplus serves as a powerful bathroom design tool, enabling professionals to create highly detailed and accurate plans for both residential and commercial projects. SimpliPlan offers a versatile room planning solution perfect for streamlining the creation of floor plans across various spaces.

EarthCam Announces Eighth-Generation Integration with Autodesk Construction Cloud

16 October 2024

EarthCam, the leader in live camera technology, content and services, today unveiled its eighth-generation integration with Autodesk Construction Cloud®, a portfolio of software and services that combines advanced technology, a builders network and predictive insights for construction teams, coinciding with Autodesk University. EarthCam has improved speed and precision for its unique alignment of live video streams with BIM models and digital twins, enabling VDC (virtual design & construction) teams to make accurate decisions, and reduce costly errors during project execution.

EarthCam continues to expand its integrations with Autodesk®, and has increased capabilities for teams to deliver visual data into more relevant areas. Project teams utilizing Autodesk Build and Autodesk Docs can incorporate valuable real-time imagery and data from EarthCam cameras into their projects.

Users can now also benefit from EarthCam **Air Health**, which combines high quality images with a RESET® Air Index certified sensor to report on environmental conditions and pollutants for interior projects. Automated alerts – as Autodesk Build Issues – prompt users to take corrective action for potentially hazardous dust or chemicals, while the live camera is used to confirm that PPE (personal protective equipment) is appropriate for the conditions. Permanent records can be maintained in Autodesk Docs that jobsite temperature and humidity levels complied with material application guidelines, and that low VOC materials were implemented as specified.

“Ensuring field worker safety is critical,” said James Cook – director of industry & technology partnerships at Autodesk. “Integrating EarthCam Air Health with Autodesk Construction Cloud helps project managers protect the safety and security of workers onsite.”

These new features, along with EarthCam’s live-streaming video, **AI analytics** and 4K time-lapse movies are fully embeddable into Autodesk Build Insights or BIM 360 Project Home dashboards, making EarthCam’s advanced functionalities more accessible to users directly within their Autodesk Construction Cloud environment.

EarthCam’s Control Center has long been the software of choice among industry leaders for smart project documentation, promotion, safety and security. EarthCam provides camera rentals, professional installation and AI analytics to make construction project management more efficient with powerful visual data. Mobile apps provide convenient access to all visual information from the field.

GT-SUITE v2025 Released!

23 October 2024

Gamma Technologies is pleased to announce that the release candidate of GT-SUITE v2025 is ready for download. Whether you are fine-tuning engines, optimizing for electrification, or leveraging multi-physics simulations, this GT-SUITE release shifts your designs into high gear! Below is a [video](#) highlighting some of the exciting new features that v2025 has to offer!

Here are some selected highlights from v2025!

Machine Learning: Anomaly Detection and Data Classification Algorithms
GT-SUITE’s Machine Learning Assistant has been extended to support the creation, training,

and export of anomaly or fault detection metamodels. These new types of metamodels allow specific fault characteristics to be detected (e.g. stuck valve, leaky pipe, etc.), a critical capability for digital twins. Additionally, GT-SUITE models can realistically simulate real-world faults that can be used to train these metamodels, instead of subjecting hardware to potentially damaging scenarios.

Model Management: Signal Explorer

Large, modular, system models have become increasingly more common as companies make the shift to more and more virtual testing. Signal flow in these modular models can become complex and very difficult to follow. GT's new Signal Explorer provides a holistic view of signal and RLT usage across an entire model (including subassemblies, compounds, etc.). This includes both a "system view" of the signal flow between various files in a modular system model and also a detailed view to see specific information on each individual signal.

Batteries: Semi-automatic AutoLion model calibration and sodium-ion cell modeling

GT-AutoLion now includes a new wizard that walks users through the process of calibrating a GT-AutoLion model to experimental data, reducing the time required to calibrate these electrochemical models. GT-AutoLion also has new capabilities to model sodium-ion cells, allowing users to benchmark this new technology and how it performs in integrated systems.

Motors & Drives: New workflows integrating electric motors and inverters to solve for both NVH and system losses

GT-FEMAG and GT-PowerForge can now be set up to precisely calculate the interactions between a motor and its inverter. This includes the ability to account for the inverter's pulse width modulation (PWM) strategy on system losses and noise, vibration, and harshness (NVH).

Vehicle Systems: New Microscopic Traffic Scenarios

Engineers can now study high-fidelity powertrain models in real-world conditions, factoring in the unpredictability of microscopic traffic and driver behavior. This enhanced approach, which utilizes GT-SUITE with SUMO (Simulation of Urban MObility), provides a more realistic assessment of vehicle performance and fuel/energy-saving potential in urban conditions.

Vehicle Dynamics: Run Fast for Controls Optimization

Experience unparalleled efficiency with our advanced 14 degrees of freedom (DOF) vehicle model. Faster than conventional 3D models, it empowers analysts to design and optimize control systems with ease. This model runs faster than real-time on the desktop enabling quick turnaround times for stability, handling and performance control algorithm development.

Thermal Fluids: Characterize complex components using GT-Auto-3DFlow

GT-Auto-3DFlow has been extended to allow the characterization of pressure drop, flow distribution, and heat transfer in complex components and plumbing, where 3D effects are important. An easy-to-use, guided wizard enables any GT user to perform accurate 3D flow simulations and the entire workflow remains in GT. This is an accurate, fast, and easy-to-use 3D flow simulation designed specifically for system simulation engineers.

Mechanics and Tribology: Flex-Flex EHD solution for Journal and Thrust Bearings

Journal bearing EHD (elastohydrodynamic) and thrust bearing EHD solutions have been

enhanced to model flexibility on both sides, making it a flex-flex EHD solution. EHD solutions are critical in understanding the oil film behavior in heavily loaded bearings that operate in the mixed lubrication regime. Coupling elasticity on both surfaces of the bearing is critical in predicting the region of peak film/contact pressure and wear.

Honeywell and Google Cloud to Accelerate Autonomous Operations with AI Agents for the Industrial Sector

21 October 2024

Honeywell and Google Cloud announced a unique collaboration connecting artificial intelligence (AI) agents with assets, people and processes to accelerate safer, autonomous operations for the industrial sector.

This partnership will bring together the multimodality and natural language capabilities of Gemini on Vertex AI – Google Cloud's AI platform – and the massive data set on Honeywell Forge, a leading Internet of Things (IoT) platform for industrials. This will unleash easy-to-understand, enterprise-wide insights across a multitude of use cases. Honeywell's customers across the industrial sector will benefit from opportunities to reduce maintenance costs, increase operational productivity and upskill employees. The first solutions built with Google Cloud AI will be available to Honeywell's customers in 2025.

"The path to autonomy requires assets working harder, people working smarter and processes working more efficiently," said Vimal Kapur, Chairman and CEO of Honeywell. "By combining Google Cloud's AI technology with our deep domain expertise—including valuable data on our Honeywell Forge platform—customers will receive unparalleled, actionable insights bridging the physical and digital worlds to accelerate autonomous operations, a key driver of Honeywell's growth."

"Our partnership with Honeywell represents a significant step forward in bringing the transformative power of AI to industrial operations," said Thomas Kurian, CEO of Google Cloud. "With Gemini on Vertex AI, combined with Honeywell's industrial data and expertise, we're creating new opportunities to optimize processes, empower workforces and drive meaningful business outcomes for industrial organizations worldwide."

With the mass retirement of workers from the baby boomer generation, the industrial sector faces both labor and skills shortages, and AI can be part of the solution – as a revenue generator, not job eliminator. More than two-thirds (82%) of Industrial AI leaders believe their companies are early adopters of AI, but only 17% have fully launched their initial AI plans, according to Honeywell's 2024 Industrial AI Insights report. This partnership will provide AI agents that augment the existing operations and workforce to help drive AI adoption and enable companies across the sector to benefit from expanding automation.

Honeywell and Google Cloud will co-innovate solutions around:

Purpose-Built, Industrial AI Agents

Built on Google Cloud's Vertex AI Search and tailored to engineers' specific needs, a new AI-

powered agent will help automate tasks and reduce project design cycles, enabling users to focus on driving innovation and delivering exceptional customer experiences.

Additional agents will utilize Google's large language models (LLMs) to help technicians to more quickly resolve maintenance issues (e.g., "How did a unit perform last night?" "How do I replace the input/output module?" or "Why is my system making this sound?"). By leveraging Gemini's multimodality capabilities, users will be able to process various data types such as images, videos, text and sensor readings, which will help its engineers get the answers they need quickly – going beyond simple chat and predictions.

Enhanced Cybersecurity

Google Threat Intelligence – featuring frontline insight from Mandiant – will be integrated into current Honeywell cybersecurity products, including Global Analysis, Research and Defense (GARD) Threat Intelligence and Secure Media Exchange (SMX), to help enhance threat detection and protect global infrastructure for industrial customers.

On-the-Edge Device Advances

Looking ahead, Honeywell will explore using Google's Gemini Nano model to enhance Honeywell edge AI devices' intelligence multiple use cases across verticals, ranging from scanning performance to voice-based guided workflow, maintenance, operational and alarm assist without the need to connect to the internet and cloud. This is the beginning of a new wave of more intelligent devices and solutions, which will be the subject of future Honeywell announcements.

By leveraging AI to enable growth and productivity, the integration of Google Cloud technology also further supports Honeywell's alignment of its portfolio to three compelling megatrends, including automation.

Join's New Insights Feature Gives Construction Leaders a Portfolio View of Preconstruction Project Health

23 October 2024

Join, the collaborative project delivery platform for the built environment, announced the launch of *Join Insights*, its new preconstruction dashboard for general contractor executives. The first product to offer a firm-wide view into preconstruction project health, *Insights* is built on top of Join's core project platform, renowned for helping project teams across the nation deliver a premier owner experience.

Introducing next-level portfolio intelligence

Join Insights captures a portfolio view of projects in a single dashboard, giving firm executives the ability to simultaneously monitor risk and drive high performance.

The new feature shines a light on the highly critical preconstruction phase of projects, providing actionable status reports on preconstruction project health across projects and regions. *Insights* makes it possible for GC leadership to identify and scale positive preconstruction trends, and to quickly react to potential project risks.

“Until now, there has been virtually no way to track actions and outcomes across projects during preconstruction,” says Join’s Head of Industry Strategy Jason Brenner, who, prior to onboarding at Join, led highly collaborative teams for some of the most sophisticated GCs in the industry. “Typically, the only update a GC firm leader gets is from the estimating team every two to three months. And when the estimate is published, it may already be six to eight weeks old. This way of monitoring precon is like driving a car while looking out of the rearview mirror.”

Providing real-time alerts for individual projects

Insights helps project and preconstruction leaders keep their projects on track by giving them a data-rich view into the preconstruction effort. *Insights* helps collaborative teams:

- Assess which projects do or do not have a path to budget
- Understand the extent of past due and upcoming decisions on each project
- Visualize which projects are at risk for overdrawing allocated contingencies or allowances

Without a tool like *Insights*, the ability to track project health during preconstruction is limited to static cost updates every few months. With *Insights*, GCs can evaluate decisions being made (or not being made) on a weekly or even a daily basis. They can see if their design contingency is burning down too quickly. They can react to negative cost trends between milestone estimates to help support their project teams earlier.

“*Insights* is going to dramatically improve a GC’s ability to control project outcomes,” says Brenner.

In addition to working for large GCs, Brenner also worked on the owner side for companies such as Genentech and Johnson & Johnson. He adds that the real power of Join *Insights* is that it helps collaborative teams deliver an exceptional owner experience. “We at Join have heard time and time again that owners love the ability to see where their projects are trending in real time and to understand exactly where teams need to focus their efforts. *Insights* provides actionable data when it has the greatest potential to impact project success: during preconstruction.”

Siemens introduces Solid Edge 2025 and Solid Edge X

23 October 2024

Siemens Digital Industries Software announced the 2025 release of Solid Edge® software, bringing new capabilities to its product development software. The latest release also introduces Solid Edge® X software, delivering Solid Edge in a cloud-enabled secure Software as a Service (SaaS) environment, enhanced with new AI-enabled tools to help users work smarter.

“The release of Solid Edge X delivers on Siemens’ strategic goal to bring our industry-leading software to customers as a service. This release delivers toolsets that are open, accessible and as scalable as our customers demand,” said John Miller, senior vice president, Mainstream Engineering, Siemens Digital Industries Software. “Solid Edge delivers transformative technologies that bring together the innate collaborative capabilities of the cloud combined

with cutting-edge AI-based tools, allowing our customers to innovate at the accelerated pace that today's manufacturing industry mandates.”

Solid Edge 2025 includes a range of enhancements to increase modeling speed, improved etch and bend features for sheet metal design, and simplified Model Based Definition (MBD) creation.

“Solid Edge 2025 is very intuitive to use. With simplified and refined workflows, we can design with less keystrokes, allowing us to be more productive, while saving additional time,” said Michael Orr, Design Drafter at Ariel Corporation. “It totally exceeded my expectations.”

Introducing Solid Edge X

Solid Edge X delivers the power of Solid Edge software in a secure SaaS environment, offering the easy-to-use features of Solid Edge in a flexible, accessible experience. Solid Edge X helps reduce IT complexity and costs, with automatic updates and secure access from any device. With cloud-based built-in data management, based on Siemens' industry leading Teamcenter® software and infrastructure, customers can collaborate across engineering and manufacturing disciplines wherever and whenever it is needed.

Included in Solid Edge X, new Artificial Intelligence (AI) powered functionality offers real-time assistance and helps minimize disruptions to engineering workflows. This new capability, available next year, provides in-app product help, enabling engineers and designers to stay focused on the task and find the assistance they need, minimizing disruptions and tailoring help to solve issues immediately.

Speed and simplify Model Based Definition (MBD) creation: New hybrid annotation capability in Solid Edge 2025 allows engineers to insert dimensions and feature control frames into designs with an efficient, all-in-one workflow that supports Model Based Definition and provides the tools to quickly and accurately detail 3D models. New Feature control frames and updated Surface Texture symbols help users adhere to ever-changing standards, while automatic dimensioning helps to maintain consistency and minimizes errors.

Adaptability & customization: New customization options make it easier for users to tailor their Solid Edge experience and enjoy a personalized design environment. With features like redesigned vertical command bars and enhanced context toolbars, you can streamline your workflows and enjoy greater flexibility.

The new Discovery Center provides a centralized hub where users can access a wide range of resources, learning materials and free trials, accessible from directly within the product, for a seamless experience.

Elevated sheet metal design: Continual improvements to Solid Edge's industry-leading sheet metal capabilities streamline workflows and improve precision. Updates for the Solid Edge 2025 release include support for complex geometries, offering improved bend calculation, making it easier to create accurate sheet metal parts. Bend deduction and bend allowance allow control of material conditions related to manufacturing and tooling. New etch features now support

bends and curved faces, automatically placing etches on all relevant faces, while enhanced bend support shows detailed properties and calculation methods.

Connect, collaborate, share – anytime, anywhere

Solid Edge includes tools that support integrated collaboration with Teamcenter® Share app, Siemens' collaboration service, included as part of the Siemens Xcelerator as a Service offering. Teamcenter Share allows users to collaborate on assemblies and track tasks seamlessly within Solid Edge, and create, edit and delete projects as needed. Data can be shared as needed using the service – which now supports datasets up to 500Gb.

For organizations looking to advance their digital transformation, the latest Solid Edge updates also streamline operations when using the integration with Siemens' Teamcenter® software for Product Lifecycle Management (PLM). Managed data now opens up to 50% faster with accelerated download speeds to enable users to get to work more quickly with complex datasets.

Also enhanced for this update is the ability to define and manage material definitions using the Integrated Material Management capability from Teamcenter. This enables customers to define managed material definitions, enabling the control of that critical data for accuracy, consistency, traceability and security – leading to optimized material usage, waste reduction and helping customers to achieve their sustainability targets through accurate, eco-friendly material selection.

Electrical schematics with cloud-based Capital X

Solid Edge 2025 integrates with Capital™ Electra™ X software, a new cloud-native electrical design tool from Siemens that allows designers and engineers to create electrical schematics quickly and efficiently. Available on any device, Capital Electra X delivers an intuitive and accessible platform to enhance electrical design capabilities -- improving workflows and reducing overhead costs.

Smart and simplified machining: Solid Edge® CAM Pro software brings enhancements to part programming and machining performance with new smart assistance that automatically recommends the best operations, streamlining toolpath creation and easing the programming process while advanced quick roughing and the zig zag milling features simplify offset roughing and face milling. Automatic hole machining also makes selecting prismatic features like slots, steps and holes effortless.

Faster mesh generation, advanced flow and heat simulation

Improved integration with Simcenter™ FLOEFD™ for Solid Edge® software allows directly imports complex CAD models for analysis, saving time in the simulation setup process. Simplified fluid flow and heat transfer analysis make it easy to evaluate product performance under various conditions. Mesh generation for convergent, faceted and STL geometries is now even faster. With new templates and tools, setting up complex simulations is easier and more streamlined.

Optimize design projects with NX interoperability and IFC file support

Interoperability between Solid Edge and NX™ software allows engineers to reuse data and work seamlessly with the software that best meets their needs. Easily transfer section views, advanced PMI, kinematic data and more between Solid Edge and NX. New enhancements support the import and export of International Foundation Class (IFC) file types, a standard in the construction and building industry, allowing users to store and exchange information about construction projects without translation.

STACK Quarterly Update: Q3 2024

21 October 2024

Our team has been hard at work this quarter adding integrations and improvements to support your unique workflows. Join our top product leaders to learn about the latest enhancements we've made to help you continue bidding faster, winning more, and building smarter. Plus, get a sneak peek at what's to come!

For our *Preconstruction* users, you'll see additions and improvements focused on:

- Supporting Your Team & Project Structures
- Accelerating the Takeoff Workflow
- Increasing Estimate Flexibility

And for our *Construction* users, you'll see enhancements focused on:

- Leveraging More Data in Workflows
- Standardizing Your Projects with Templates

Tecsys Enhances Supply Chain Performance with Advanced Data Science and Technology Tools in Latest Release

21 October 2024

Tecsys Inc., a global leader in supply chain management solutions, has introduced new advanced capabilities in its Elite™ software platform that help businesses achieve a greater degree of supply chain efficiency and resilience. These innovations, part of the Elite 24.2 release, empower supply chain organizations to transform complex supply chain data into clear, prioritized insights, enabling users to respond quickly and make informed decisions that drive operational improvements.

With a renewed focus on measurable business outcomes, the enhanced data-driven efficiencies delivered by this release enable businesses to optimize performance in an increasingly complex landscape.

“Right out of the gate, our customers are going to see innovations they can apply immediately to enhance their operations,” said Martin Schryburt, senior vice president of Product and Technology. “Regardless of industry, these enhancements reflect our customers' most pressing needs, and we're proud to provide the solutions that will drive their success.”

Among the highlighted features in this release are:

- **Dynamic Picking Control Tower:** Acts as a centralized command center for your warehouse, providing a comprehensive view of picking activity, time order assignments and dock scheduling. This powerful tool puts the entire picking operation at your fingertips, allowing for real-time monitoring, seamless coordination, and swift decision-making to optimize workflow and efficiency.
- **My Top 5:** Tailored specifically to each warehouse role, this feature offers personalized business intelligence and real-time visibility, showing management exactly what they need to focus on at any given moment. By providing a clear, prioritized execution strategy, My Top 5 drives greater efficiency and boosts employee satisfaction, ensuring that every team member has the insights they need to perform at their best.
- **Item Master Data Cleansing:** Establishes a centralized AI-assisted product data repository, empowering healthcare organizations to retrieve missing Global Trade Item Numbers (GTINs) quickly and effortlessly from their item master. By addressing the root cause of many operational failures, *bad item-data*, this feature significantly enhances data accuracy and operational quality, leading to smoother workflows and reduced errors across the board.
- **Electronic Shelf Labels:** Adding to our leading portfolio of in-hospital automation and technology solutions, these labels are designed for use in clinical environments to provide visibility into inventory status. They enable healthcare organizations to accurately identify and track items, reduce errors, and address critical challenges such as recalls and expiration management.

“The common thread through the long list of new features in the Elite 24.2 release is that we’re making better use of advanced data science and data technology — and in the end, it’s all about making your data work for you,” said Rex Ahlstrom, chief strategy officer at Tecsys. “With the powerful new functionality brought to you by 24.2, our customers can gain efficiencies and insights they have never had before.”

What’s New in OpenBOM October 2024

23 October 2024

Oleg Shilovitsky published the announcement of the newest release of OpenBOM on the OpenBOM blog. Oleg says, “I’m thrilled to share the latest updates in OpenBOM’s October 2024 release. From advanced data model enhancements to user experience improvements and CAD integrations, this release brings valuable new features that continue to push the boundaries of what OpenBOM can achieve.”

Read the full blog post here: <https://www.openbom.com/blog/whats-new-in-openbom-october-2024>