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CIMdata News

CIMdata Announces eBook on Digital Thread in Aerospace & Defense

1 June 2023

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces the publication of a new eBook that summarizes the results of a multi-sponsor collaborative research program and highlights Jama Software's perspective on the topic of digital threads. The CIMdata-administered Aerospace & Defense PLM Action Group commissioned the research in collaboration with Jama Software and four other leading PLM solution providers.

The concept of linking multiple representations of a product, each tuned to the needs of various creators and consumers along the lifecycle, is very powerful. Until recently, tracing these linkages has been primarily a manual process. But now, with recent advances in commercial PLM solutions, the digital thread, with automated linkages and traceability, has become a practical possibility.

Leaders in the Aerospace & Defense industry are starting to implement targeted digital thread solutions and envision expanding these solutions upstream and downstream throughout the product lifecycle. There is not much available historically in the way of lessons learned or actual value achieved, which represents a barrier to broader investments from within industry. The shared objective of this research was to gain understanding of needs and opportunities within industry that will inform digital thread solution strategy, roadmap planning, and guide industrial implementations.

The research findings clearly indicate that digital thread investment within the ecosystem of industrial users, their customers, suppliers, and solution providers is poised for rapid growth. Initial implementations of targeted digital thread solutions have provided proof points of value and essential learnings. Now rounds of investment are ramping up, guided by these early achievements and with expectations driven by the value potential revealed.

"The product development process is fragmented across siloed teams and tools, which leads to a significant risk of product delays, defects, cost overruns, and recalls. The solution requires not just tools, threaded together digitally, but to actually make traceability live and measurable. With Live Traceability™, it is now possible to automatically detect risks early across engineering disciplines, manage the engineering process by exception and track performance across projects using a Traceability Score™ that predicts product outcomes," said Mr. Marc Osofsky, CEO, Jama Software.

According to Mr. James Roche, CIMdata's Aerospace & Defense Practice Director, "We know that investment in digital thread today is real and substantial, and the level of investment will continue to rise. That reality positions digital thread as an emerging strategic opportunity

within the PLM ecosystem. Investing effectively in solution development as a software provider or solution implementation as an industrial user requires insight into current state enablers, barriers, and future investment drivers."

To download a complimentary copy of the Jama Software eBook, visit www.CIMdata.com.

CIMdata Announces eBook on Imperatives as Automotive Industry Pivots to Vehicle Electrification

31 May 2023

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces the publication of a new eBook, Imperatives as Automotive Industry Pivots to Vehicle Electrification. The eBook describes vehicle electrification engineering challenges and the capabilities of Siemens Digital Industries Software's integrated and cross-discipline approach of their Xcelerator solutions. Siemens is introducing three solution themes which will foster the development of electric vehicles, namely Comprehensive Design and Optimization Simulation, Collaborative Virtual Development Environment, and End to End Production Management. Given the explosive growth in electronics and software and new drive units along with innovative battery technologies, these solution themes allow experienced automakers to remain competitive, as well as supporting the needs of new start-ups entering the electric vehicle marketplace. Siemens Digital Industries Software (Siemens), a proven provider to the automotive industry, is keeping pace with the emerging electric vehicle automotive engineering and manufacturing challenges.

According to Mr. Craig Brown, a CIMdata Executive Consultant with over 30 years of experience in the automotive industry, "Today's automakers need focused solutions for electric vehicle development and manufacturing. Included now are new power electronics, electrically powered motors, innovative batteries, and power distribution wiring harnesses that need to be smartly engineered into existing and new vehicle platforms. Siemens continues to enable automakers as the automobile industry pivots to electrification."

Siemens Digital Industries Software sponsored research for this eBook. To learn more, please download and read the complete eBook at www.CIMdata.com.

PTC's LiveWorx 2023 - Expanding the breadth and depth of its SaaS solution suites - a CIMdata Commentary

1 June 2023

Key Takeaways

- PTC continues to drive and expand their SaaS and cloud delivery strategy with the new "+" product releases, e.g., Creo+ and Windchill+.
- PTC is leveraging Onshape cloud-based system functions in Creo+ to enable multiple users to collaborate on the same product model in real-time—concurrently reviewing, exploring, and editing product designs.

- They have added partnerships with aPriori and Ansys Granta to improve better design for sustainability.
- ServiceMax is the core of PTC’s new Service Lifecycle Management (SLM) solution suite and will manage the physical product of record, extending PTC’s model-based digital thread to encompass the product service lifecycle.
- PTC is tightly integrating Codebeamer and Windchill to deliver more comprehensive requirements management across the full product lifecycle.

CIMdata attended PTC’s LiveWorx 2023, held in Boston May 15 through 18, 2023.^[1] Because of the COVID-19 pandemic, this is the first in-person LiveWorx since 2019 and CIMdata was excited to again be able to personally hear and discuss PTC’s many announcements, technologies, and solutions with PTC employees and attendees from around the world.

Mr. James Heppelmann, PTC’s President and CEO, kicked off the event. He highlighted PTC’s themes of “Just in Time” and “Agile” product development and talked about the increasing need for faster product development speed in all industries. He said that “the Future is not something we enter...it is something we create” and stated that PTC is investing in solutions to help its customers create innovative and sustainable products needed to create that future.

Mr. Heppelmann noted that since 2019, PTC has invested over \$3 billion in R&D and acquisitions, including 100s of millions of dollars in application lifecycle management (ALM), to create solutions that can enable their customers to achieve more agile and faster product development, production, and service processes. He stated that these investments are playing a “pioneering role” in bringing our industry to the software-as-a-service (SaaS) era. Mr. Heppelmann said that approximately 25% of PTC’s business is delivered by SaaS and reiterated their SaaS “+” strategy (i.e., Windchill+, Creo+, Vuforia+, etc.) is designed to enable dynamic, real-time multi-user collaboration built on PTC’s Atlas technology platform.

Joining Mr. Heppelmann on stage was Mr. Neil Barua, President SLM Business, PTC to discuss PTC’s ServiceMax acquisition and how it complements and expands PTC’s ability to deliver the physical asset side of a comprehensive lifecycle digital thread. With ServiceMax as the core, PTC has integrated multiple asset service-related solutions in their SLM suite (see Figure 1).

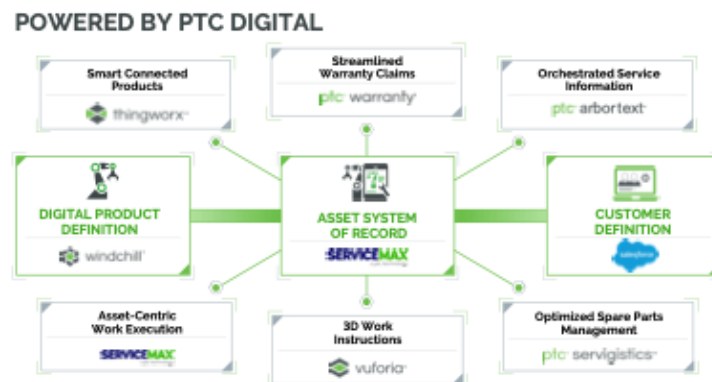
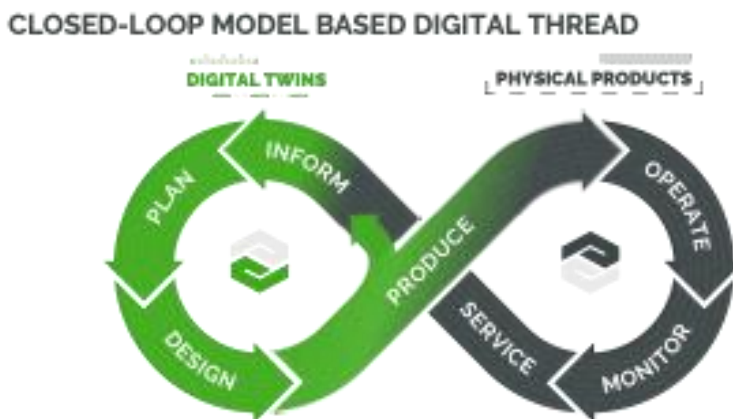


Figure 1—PTC Service Lifecycle Management Suite
 (Courtesy of PTC)

PTC is linking this suite and Windchill to create and manage a physical asset-focused system of record. With ServiceMax they are developing an “asset-centric model” in which the as-maintained asset definition serves as the hub.

Mr. Heppelmann stated that with their latest solution releases and acquisitions, PTC can now enable its customers to establish a complete model-based digital thread that covers both the digital definitions and twins, as well as in-service physical assets (as shown in Figure 2). He stated that within this digital thread, Windchill will manage the digital product possibilities and ServiceMax will manage the physical product realities.



*Figure 2—PTC Model Based Digital Thread
(Courtesy of PTC)*

Mr. Heppelmann also described a new environment called the “Industrial Metaverse”—described later in this commentary.

As always, Mr. Heppelmann’s keynote provided insight into PTC’s go-forward strategy, new technology and solution capabilities, and how they are delivering on their commitment to helping their customers be more effective and profitable in today’s and the future’s competitive markets.

Mr. Jon Hirschtick, EVP, Chief Evangelist at PTC, held a “fireside chat” to discuss the need for and evolution to agile development, not just for software but for all aspects of product development. He was joined by Mr. Philip Taber, VP, Engineering from Silverside Detectors, who described how his company was applying agile techniques to hardware development. Mr. Taber said Silverside was using techniques like scrums and Kanban as part of their agile development evolution. He also said that while cloud-native environments weren’t critical, they were tremendously helpful, noting that Silverside significantly increased the frequency and volume of information sharing and that cloud delivery makes it much easier than using an on-premises environment.

Ms. Catherine Kniker, EVP, Chief Strategy Officer, PTC led a session on Design and Manufacture for Sustainability. Ms. Kniker assumed leadership of PTC’s sustainability efforts one year ago. She reiterated PTC’s commitment to sustainability. To support their efforts, PTC has joined the [Science-Based Targets](#) initiative with targets of a 50% reduction in carbon footprint by 2030

and a zero footprint by 2050. [2] According to Ms. Kniker, sustainability is not only good for the planet but good for business. Mr. Kniker stated that over 85% of PTC larger customers have made sustainability commitments.

Ms. Kniker said early design decisions impact up to 80% of a product's sustainability footprint and that PTC will help its customers meet their sustainability goals by providing tools, solutions, and new relationships that will better enable design for sustainability. Two elevated sustainability-related relationships are with Ansys Granta for materials selection and aPriori for determining the cost of manufacturability of components and products. She stated that these two partnerships complement each other, enabling customers to fine tune manufacturability and sustainability early in the design phase. CIMdata is committed to sustainability and eco design and is pleased to see PTC applying its significant resources to helping their customers improve in this critical area.

A very interesting customer-led session, entitled "Cummins—Design for Sustainability While Developing a Design Optimization Culture," was presented by Mr. David Genter, Director Technology Planning, Cummins. Mr. Genter stated that designing for sustainability makes a company more profitable and enables it to use its engineering resources more effectively. It also changes the mindset designers use to design.

Mr. Genter described the five-step approach Cummins follows to design their products more sustainably:

1. Drive Design for Sustainability (DfS) expectations from top-down
2. Utilize design optimization subject matter experts (SMEs)
3. Update design standards to reflect DfS expectations
4. Improve design engineer proficiency
5. Roll-out effective tools and training

Among Cummins' lessons learned was that analysis work must move left—enabling needed optimization to take place earlier. He believes that following a serial design, analysis, design, etc., process cannot support today's development processes and business needs. Cummins uses PTC's "pop-up metaverse" capabilities to quickly scan existing equipment for incorporation into a virtual product usage scenario. By quick, it was a matter of minutes, important in use cases where time is of the essence. CIMdata thinks that the Cummins example provides practical insight into more effective ways to implement design for sustainability.

One of the most popular LiveWorx sessions is the Influencer Q&A with Mr. Heppelmann—joined this year by Mr. Barua and Mr. Steve Dertien, CTO, PTC. Mr. Heppelmann helped the audience understand the positioning of the Creo/Windchill suite versus the Onshape/Arena suite of solutions. He stated that the Onshape/Arena suite is primarily designed for companies that need to "go fast," in which speed of product development is paramount, e.g., consumer electronics. The Creo/Windchill suite is designed to support companies developing more complex products (i.e., automobiles, heavy machinery, etc.) in which component reuse and company efficiency are more critical.

Other topics of note included:

- Atlas is PTC's go-forward global platform strategy.
- Users can do full generative design in Onshape.
- PTC plans to use generative artificial intelligence (AI) technology within all their solutions—every product is a candidate for chatbots, etc. Mr. Heppelmann said PTC will put generative 3D in the free version of Onshape to better raise the tide of understanding of it.
- They have developed integrations between Creo and Windchill, and Rockwell Automations' Emulate3D solution for factory digital twins to support virtual commissioning.

CIMdata thought that the Influencer session provided many useful insights as to PTC's go-forward strategy and product direction.

Now back to the Industrial Metaverse introduced by Mr. Heppelmann in his keynote address. Mr. Dertien, Mr. Valentin Heun, VP Innovation Engineering, PTC, Ms. Shiva Kashalkar, VP Product Management PTC, and Mr. Helmut Draxler, CDIO, Burckhardt Compression Group, led a focused session on the topic. The objective of the Industrial Metaverse is to create a blending of the digital and physical worlds to solve spatial problems in engineering, manufacturing, and field service operations. It integrates:

- Rapid, spatial digital twin
- Spatial real-time-collaboration
- Easy access to digital thread
- Motion analytics

The intent is to create a "digital shadow" and track changes to an as-maintained asset as it is used in service. PTC described three use cases for such a "shadow:"

- Field service—a pop-up metaverse enabling remote assistance for mission-critical repair; teleporting remote experts to the site of the asset.
- Manufacturing operations—ergonomics.
- Design & engineering.

CIMdata found the concept of an Industrial Metaverse very interesting. In some respects, the PLM market has been laying the foundation for the Industrial Metaverse for several decades. Technologies like design visualization and virtual/digital have been around since the 1990s. PTC's CAD technology and expertise and their Vuforia acquisition have PTC well positioned to respond to this trend. We look forward to seeing how PTC brings it to fruition.

With all of their product lines having or soon getting a "+", Mr. Brian Thompson, Divisional VP & General Manager of PTC's CAD Segment, presented "Where Creo and Creo+ Meet: A Roadmap." During his presentation he announced the release of the Creo+ SaaS CAD solution,

as well as the 10th version of PTC's Creo CAD software. Mr. Thompson emphasized that both are built on the same code base and that all capabilities in Creo 10 are included within Creo+. While still an on-premises product, Creo+ combines the capabilities of Creo with selected cloud-based tools to enhance design collaboration and simplify CAD administration.

PTC leverages some of their Onshape cloud-based system functions to enable multiple users to collaborate on the same product model in real-time—concurrently reviewing, exploring, and editing product designs. PTC added Onshape's branching capabilities to Creo+ to allow users to explore alternate design variations and, if deemed appropriate, merge these exploration branches back into the main design. CIMdata sees this as a major step forward in collaboration for Creo+ users.

Creo+ also includes the PTC Control Center application, powered by the PTC Atlas SaaS platform, which is designed to provide easy deployment and management of software licenses for cloud-based tools.

Mr. Hedley Apperly, VP Product Management and Strategy-SSE, PTC and Mr. Jeff Zemsky, VP Product Management, PTC, led a session entitled "The Value of ALM-PLM Integration for Digital Product Traceability." During this session Mr. Apperly and Mr. Zemsky presented PTC's integrated development roadmaps for Codebeamer and Windchill. They discussed the importance of comprehensive requirements management (RM) and traceability, as well as why it is essential for systems engineering. They noted that RM is most effective when seamlessly integrated within a PLM environment. Codebeamer enables comprehensive RM across many segments of a product's lifecycle. By combining their RM and PLM capabilities into an environment of cooperating solutions, PTC is addressing one of the most important PLM challenges. CIMdata looks forward to seeing the joint capabilities the integrated RM solution will be able to deliver. PTC's legacy requirements solution, formerly known as MKS Integrity, has been rebranded Requirements, Validation & Software (RV&S) and PTC stated they will continue to support that product for existing customers.

Concluding Remarks

LiveWorx is always an exciting event presenting PTC's solutions and commitment to helping their customers create, deliver, and service today's and tomorrow's increasingly complex smart connected products. LiveWorx showcased the full range of PTC solutions and partnerships. Sessions covered all of PTC's products and technologies and demonstrated PTC's broad suite of solutions to better address the end-to-end product lifecycle, support faster, agile product development, and deliver higher business value to their customers and their customers' customers. CIMdata believes that the new solutions, updates of current solutions, and new and expanded strategic partnerships will enable PTC to maintain its position as a leading provider of CAD, PLM, ALM, and SLM solutions.

[\[1\]](#) Travel and/or other expenses related to this commentary were provided by PTC.

[2] Science-Based Targets is a global partnership founded to help show companies and financial institutions how much and how quickly they need to reduce their greenhouse gas (GHG) emissions to prevent the worst effects of climate change. <https://sciencebasedtargets.org/>

Acquisitions

Accenture Acquires Bourne Digital, Expanding SAP Digital Design Capabilities in Australia

1 June 2023

Accenture has acquired Bourne Digital, an Australian digital design agency focused on the SAP® ecosystem. Terms of the transaction were not disclosed.

With a specialization in the SAP® Business Technology Platform, Bourne Digital creates experience driven applications, streamlining workflows and introducing automation. It will enhance Accenture's SAP offerings in the market, particularly in the fast-moving consumer goods, financial services, resources, health and travel industries.

Founded in 2015, Bourne Digital is headquartered in Melbourne, Australia and has offices in Sydney and Brisbane. As a specialist SAP® Business Technology Platform partner, Bourne Digital builds design-led digital products and experiences for enterprise customers, including custom portal and web solutions, and mobile applications. Bourne Digital helps clients deliver their technology strategy with an approach that couples design and architecture thinking. Its 66 employees will join the Accenture SAP Business Group in Australia, bolstering its ability to deliver a user-led approach to design, architecture and delivery and drive process excellence using SAP cloud technologies.

"In times of disruption, organizations need to digitize business processes in an increasingly compressed timeframe to become more creative, competitive and profitable," said Matt Coates, Technology lead for Accenture in Australia and New Zealand. "With the acquisition of Bourne Digital, we will strengthen our SAP digital design and user experience capabilities to help our clients better utilize their SAP solutions."

Selim Ahmed, chief executive officer, Bourne Digital, said, "Joining forces with Accenture gives us the opportunity to scale to meet the emerging needs of SAP customers and address the increasing demand for SAP® Business Technology Platform services globally. It will provide our experienced professionals -- with their design DNA and deep SAP skills -- with new development opportunities and career growth while helping Accenture further strengthen its leadership position in Australia."

"Accenture's deep heritage and experience in large scale technology transformation projects and Bourne Digital's top talent and user-led design capabilities make a powerful combination in the Australian market," said Peter Burns, who leads Accenture's business in Australia and New Zealand.

A member of the SAP AppHaus Network since December 2018, Bourne Digital was the first SAP partner in Australia to run an SAP AppHaus—a collaborative space that brings together creative and technical experts to prototype and test ideas aimed at improving the user experience and adoption of SAP systems. Bourne Digital was recognized as a winner of SAP Innovation Awards in 2018, 2019, 2021 and 2023 and as a winner in the SAP ANZ Best Run Awards 2022.

Accenture Acquires Nextira, Expanding Engineering Capabilities in Artificial Intelligence and Machine Learning

1 June 2023

Accenture has acquired Nextira, an Amazon Web Services (AWS) Premier Partner that uses AWS to deliver cloud-native innovation, predictive analytics and immersive experiences for their clients. These services and solutions will bolster Accenture Cloud First's robust set of engineering capabilities and help clients take advantage of a full continuum of cloud capabilities and tools. Terms of the transaction were not disclosed.

Founded in 2008 and based in Austin, Texas, Nextira's nearly 70 employees will join the Accenture AWS Business Group, a team of more than 20,000 certified professionals dedicated to accelerating value on AWS to maximize enterprise-wide transformation at speed and scale.

Nextira builds cloud-based solutions and services with cutting-edge engineering skills, artificial intelligence (AI), machine learning, and data analytics that enable clients to design, build, launch and optimize high-performance computing environments. In addition, Nextira's proprietary Studio in the Cloud solution on AWS provides clients with a virtual environment to easily develop and render 3D objects using the latest rendering platforms.

For many organizations, cloud has become the new operating system, supporting all functions that are necessary in order to operate, innovate and thrive. Nextira's platform engineering expertise and AI and machine learning services will enable AI capabilities to be directly embedded into the rapidly growing number of applications and services built that are on AWS.

"Nextira brings in proven expertise in engineering and architecting the cloud solutions that form a digital core for continuous innovation," said Karthik Narain, global lead for Accenture Cloud First. "We will combine Nextira's AI, machine learning, and data and analytics abilities with Accenture's approach to using modern data platforms on cloud. This will deliver the actionable insights and predictive outcomes that our clients need to create new applications and services, deliver innovative customer and employee experiences and fuel their next wave of product and market growth."

"Our strategy has always been to use cutting-edge technologies in order to create better futures for our clients," said Jason Cutrer, founder and CEO, Nextira. "Joining Accenture will connect our deep experience in platform and software engineering with Accenture's breadth of knowledge across cloud technologies, creating new opportunities for organizations to unlock the potential of emerging technologies to drive business value."

The Accenture AWS Business Group is part of Accenture Cloud First, Accenture's industry-leading business group focused on redefining how organizations operate and create value by using cloud, data, and artificial intelligence for total enterprise reinvention. Accenture Cloud First spans more than 130,000 cloud professionals from across Accenture with more than 124,000 cloud certifications.

Accenture Announces Intent to Acquire Green Domus to Expand Sustainability Services Capabilities

29 May 2023

Accenture has announced its intent to acquire Green Domus Desenvolvimento Sustentável LTDA, a leading Brazil-based sustainability consultancy with experience helping clients design and implement a range of sustainability services with a focus on measurable decarbonization strategies. Green Domus will join Accenture to further enhance its Sustainability Services team. Financial terms of the transaction are not being disclosed.

With only 7% of global companies on track to meet their net zero targets by 2050, clients across industries are seeking new and improved ways to accelerate their net zero transitions. Green Domus will bring clients solutions to embed carbon data and insights into their decision-making through deep knowledge of sustainability frameworks such as Science Based Targets initiative (SBTi), voluntary carbon credits and emerging regulatory schemes such as the Carbon Border Adjustment Mechanism (CBAM) which recently launched in the EU.

"Green Domus' approach to measuring carbon emissions data and Accenture's suite of advanced sustainability services, such as our net zero transition solutions, will support our clients in building resilient futures," said Matthew Govier, Latin America Sustainability Services lead for Accenture. "These services will continue to transform industries and build a path forward for unlocking growth and adopting more sustainable business models."

Founded in 2005, Green Domus is headquartered in Brazil. Its decarbonization strategy expertise, with two decades of industry experience, has enhanced its carbon measurement and net zero transition capabilities across diverse industries, such as natural resources, agriculture, consumer goods and retail. Green Domus has been able to deliver customized mitigation plans based on feasible reduction targets that can also reduce clients' costs. Their support spans product lifecycle assessments, materiality assessments, sustainability measurement and performance and sectoral analytics projects.

"Accenture's scale and focus on sustainability will be critical to helping our clients address the disruption affecting our communities and planet," said Felipe Bottini CEO of Green Domus. "Businesses are anticipating the impacts of this disruption along with increased regulatory compliance. By joining Accenture, we will use the latest technologies to collaboratively accelerate our ability to embed sustainability into long-lasting solutions that address global challenges such as decarbonization."

Green Domus is Accenture's latest sustainability-focused acquisition, which comes in addition to the company's significant expansion of its global capabilities through investing in its people

and recruiting top talent. Accenture continues to place ever-greater emphasis on creating sustainable value and impact for clients by expanding its capabilities in sustainability strategy, net zero transitions, and responsible value-chain transformations. Other recent sustainability services acquisitions include Avieco, Carbon Intelligence, Greenfish, akzente, and Zestgroup.

Completion of the acquisition is subject to customary closing conditions.

Accenture Completes Acquisition of Green Domus

2 June 2023

Accenture has completed its acquisition of Green Domus, a leading Brazil-based sustainability consultancy with experience helping clients design and implement a range of sustainability initiatives with a focus on measurable decarbonization strategies. Green Domus' decarbonization strategy expertise and two decades of industry experience will further expand Accenture's Sustainability Services. Green Domus' team of sustainability professionals will help deliver customized mitigation plans and client solutions to embed carbon data and insights into their decision-making through deep knowledge of sustainability frameworks.

Terms of the transaction, previously announced on May 29, were not disclosed.

KORE Continues Journey to Become World's First IoT Hyperscaler with Closing of Acquisition of Twilio's IoT Business Unit

1 June 2023

KORE Group Holdings, Inc., the global pure-play Internet of Things ("IoT") hyperscaler and provider of IoT Connectivity, Solutions and Analytics, announced today the closing of the acquisition of Twilio's IoT business unit. KORE and Twilio previously announced on March 27, 2023, that the two organizations had entered into a definitive agreement for the acquisition. This acquisition positions KORE to drive the accelerated adoption of IoT.

As consideration for the acquisition, KORE issued Twilio, the customer engagement platform that drives real-time, personalized experiences for today's leading brands, 10 million shares of KORE common stock, representing approximately 11.5% of KORE's issued and outstanding shares.

"The Internet of Things has massive potential, and how efficiently and quickly it proliferates in the world depends upon the effectiveness and scalability of the distribution network," KORE President and CEO Romil Bahl said. "With the acquisition of Twilio's IoT business, we are making it even easier to achieve the benefits of IoT across thousands of use cases."

As the world's first IoT hyperscaler, the mission of KORE is to make deploying and managing IoT solutions easier, just as cloud service Hyperscalers have done with computing and storage.

KORE enriches its portfolio of services that simplify the complexities of IoT adoption:

- A powerful connectivity suite, including best-in-class eSIM technologies with KORE OmniSIM™ and Twilio Super SIM®

- A one-stop-shop for building, deploying, managing, and scaling IoT operations across the entire lifecycle via award-winning technologies and world-class facilities
- An accelerated time to market through global, 24/7 customer support and 20 years of IoT experience through KORE and the newly acquired Twilio IoT team's depth and breadth of digital experience

With the added ability of "Build" to the "Deploy, Manage, and Scale" proposition, KORE can now address every touchpoint across the IoT journey, simplifying what can be a highly fragmented IoT ecosystem between hardware, connectivity, data communication, computing, and analytics.

Notice of Inducement Equity Awards

In connection with the acquisition of Twilio's IoT business unit, and effective as of the closing date, KORE is granting equity inducement awards to 18 employees of Twilio covering an aggregate of up to 1,760,268 shares of KORE common stock as a material inducement to such employees to commence employment with KORE.

The equity awards, consisting of grants of time-based and performance-based restricted share units ("RSUs"), were approved by the Compensation Committee of the Board of Directors of KORE and are being made in reliance on the employment inducement exemption under the NYSE's Listed Company Manual Rule 303A.08. KORE is announcing the grant of the equity awards in this news release to comply with Rule 303A.08.

The time-based RSUs generally vest in installments on each anniversary of the grant date over three to four years, and the performance-based RSUs are scheduled to vest based on performance against certain financial performance criteria over a three-year performance period, subject in all cases to the recipient's continued service as an employee through each applicable vesting date.

The equity awards were granted outside of KORE's 2021 Long-Term Stock Incentive Plan, but generally have terms and conditions consistent with those set forth in that plan. KORE intends to file a Registration Statement on Form S-8 covering these equity awards.

Company News

Altium Achieves SOC 2 Type 2, Reinforcing Commitment to Data Security and Compliance

25 May 2023

Altium, LLC, the global leader in PCB design software, announces the successful completion of the Service Organization Control (SOC) 2 Type 2 certification. This significant milestone highlights Altium's dedication to maintaining the highest data security and integrity standards within its cloud-based Altium 365 platform.

Completing the examination and the subsequent report receipt verifies that Altium meets or exceeds the rigorous security measures and industry standards outlined by the American

Institute of Certified Public Accountants (AICPA) regarding security, availability, and confidentiality.

The Altium 365 Cloud Security team, under the leadership of Volodymyr Volotko, Director of Cloud Solutions, possesses a wealth of expertise in creating secure and compliant environments for Altium 365 customers.

"By successfully completing the SOC 2 Type 2 examination, we demonstrate our commitment to upholding the highest security standards," said Greg Bellasis, Director of Cybersecurity.

"Through implementing effective controls, we can confidently assure our customers that their trust in Altium is well-placed."

Following the completion of the SOC 2 Type 1 audit in March 2022, Altium voluntarily pursued the next level of examination, the SOC 2 Type 2. It's important to note that SOC 2 Type 1 assesses the design of security processes at a specific point in time. In contrast, a Type 2 report evaluates the effectiveness of those controls over a specified period of time. The Type 1 examination establishes the foundation of well-designed controls, while the Type 2 examination provides evidence of the controls' effectiveness and ability to operate consistently over time.

Altium plans to participate in annual assessments to maintain active SOC 2 Type 2 reports, further reinforcing its ongoing data security and compliance commitment.

"Altium's achievement of SOC 2 Type 2, our recent AWS GovCloud offering, and continued progress reaffirm our commitment to delivering the highest levels of security, privacy, and continuity to our clients," stated Nikolay Ponomarenko, Head of Altium 365 Cloud Platform.

"We consistently enhance our data management practices, fostering transparency, open communication, and accountability between our customers and ourselves, continuing to invest towards security."

Altium provides a comprehensive Trust Center equipped with a knowledge base to assist users in comprehending the security and compliance features of Altium 365.

[Aurigo Software Partners with University of Florida to Develop Cutting-Edge Solution for Underwater Projects](#)

31 May 2023

Aurigo Software, the leading provider of capital planning and construction management software for infrastructure and private owners, is partnering with the University of Florida's Department of Mechanical and Aerospace Engineering to develop a revolutionary system for underwater surveying, mapping, and inspection, provisionally named Bathydrone.

The current process to gather data for new underwater construction or the inspection of existing assets such as bridges, docks, and levees consists of manual surveying from divers or survey sensors mounted to a boat. With the new, safer, and more efficient Bathydrone system, a drone drags a small vessel on the water's surface, eliminating the need for manual surveying. The vessel is equipped with a COTS sonar unit mounted on its bottom. The sonar unit has down-scan, side-scan, and chirp capabilities and logs data onboard the console, which is located

inside the hull. Data can then be retrieved post-mission from the console and plotted in various ways.

“We are excited to be working on this groundbreaking technology with the team at the University of Florida,” said Balaji Sreenivasan, CEO and founder of Aurigo Software. “The Bathydrone system will vastly expand the possibilities for underwater endeavors while providing a cheaper, safer, and more eco-friendly alternative for our customers.”

Not only is data collected more easily, but the technology can also be operated remotely and autonomously using AI navigation software to overcome obstacles in or under the water, creating a faster and cheaper solution. The system will also integrate with Aurigo’s Masterworks Cloud Platform to properly store and categorize project data and route any inspections or other results for approval or further action.

Additional Bathydrone differentiators include:

- Fully battery-operated and better for the environment—no fuel or loud noise
- Lightweight and easily transportable
- Does not require a dock or boat ramp to get in the water
- Able to be deployed in a wide variety of water systems, including shallow water and rivers with strong currents
- Able to survey a large area on a single charge

“This project supports our department’s mission to conduct state-of-the-art research to advance science and technology,” said Peter Ijfu, University of Florida’s Mechanical and Aerospace Engineering Excellence Term Professor and Associate Chair of Faculty Affairs. “This pioneering approach to underwater surveying and mapping has multiple real-world applications that are not currently commercially available.”

Aurigo will work closely with the Department of Mechanical and Aerospace Engineering’s staff and students to bring this leading-edge solution to the infrastructure market in the next 12 to 18 months.

Graphisoft, BIMStudio, and CIDBEC Forge a Transformative Partnership to Revolutionize the AEC Industry with BIM Tools and Archicad Training Programs

31 May 2023

Graphisoft, the leading Building Information Modeling (BIM) software solutions developer for architecture and engineering, announced a ground-breaking partnership between Graphisoft, BIMStudio, and CIDB E-Construct Services Sdn Bhd (CIDBEC). This partnership aims to further revolutionize the AEC sector by bolstering productivity and empowering the workforce through advanced tools and comprehensive Archicad training programs.

Through this partnership, BIMStudio and CIDBEC will collaborate closely to provide the AEC industry access to the latest BIM tools and comprehensive training programs in CIDB myBIM Centre. These initiatives equip the workforce with the necessary skills to stay relevant and

competitive in the dynamic global market. By upskilling professionals and enhancing their capabilities, the industry will be better equipped to embrace digital transformation, increase productivity, reduce errors, and optimize resource allocation.

"We are delighted to collaborate with CIDB E-Construct Services in our shared vision of advancing the AEC industry," said **Zait Ismail, BIM Director at BIMStudio**. "This partnership will allow us to leverage our expertise in BIM technology to provide cutting-edge solutions that enhance productivity, collaboration and streamline workflows."

CIDBEC, renowned for its commitment to industry development, is dedicated to facilitating the growth and progress of the construction sector. By collaborating with BIMStudio, CIDBEC aims to accelerate the adoption of BIM technology and ensure that the industry stays at the forefront of innovation.

"We are excited to partner with Graphisoft and BIMStudio in our pursuit of excellence and continuous improvement in the AEC industry," stated **Rofizlan Bin Ahmad, CEO of CIDB E-Construct Services Sdn Bhd**. "By equipping our workforce with state-of-the-art BIM tools and training programs, we are investing in the industry's future. This collaboration will enhance productivity, reduce costs, and foster sustainable development."

"Archicad has been widely recognized as one of the leading Building Information Modelling (BIM) software solutions in the AEC industry. BIM adoption has been growing globally, including in Malaysia, due to its benefits in enhancing design coordination, collaboration, and project management efficiency," said **Ron Close, Vice President of Marketing at Graphisoft**. "We firmly believe that nurturing talent and providing continuous education is indispensable in future-proofing architecture practices. This partnership will empower the workforce, elevate their skill set, and fortify the industry's competitiveness on the global stage."

HCLTech Wins Three Prestigious Honors At The Dell Technologies 2023 Global Partner Of The Year Awards

29 May 2023

HCLTech, a leading global technology company, has won Dell Technologies 2023 Global Partner of the Year Awards in three categories: Excellence in New Business Development – Global, Excellence in Expansion – EMEA and Excellence in New Business Development – Americas.

Building on a 15-year relationship, HCLTech and Dell collaborate to provide integrated capabilities that help clients supercharge progress, safeguard core processes, future-proof their businesses and discover new growth opportunities. Recently, HCLTech and Dell delivered Hybrid-Cloud-as-a-Service offering to help organizations with agility, scalability and cost efficiency.

"As a Titanium Black partner for Dell Technologies, HCLTech enables businesses to transform digitally by implementing innovative technologies," said Anand Swamy, EVP and Head, Tech OEM and Telco Ecosystems & Strategy, HCLTech. "The synergistic blend of Dell's solutions and HCLTech's CloudSMART expertise in consulting and delivering services greatly accelerate our client's digital transformation journeys."

These awards are the latest in a series of accolades from Dell, including the Global Excellence in Expansion Award (2022), Excellence in Expansion in North America (2021), Excellence in New Business Development in APJ (2021), Global Alliances Americas Partner of the Year (2020), Americas SI/SO Partner of the year (2019) and Global Partner of the Year (2018).

MariaDB Announces New Management Appointments

30 May 2023

MariaDB plc announced Paul O'Brien has been appointed as the company's new CEO and will serve as a member of the board of directors, effective May 26, 2023. Michael Howard, the company's current CEO, will remain on the board of directors to provide strategic planning and oversight. The board has also appointed Tom Siegel as chief revenue officer (CRO) to lead the sales, consulting, support and training teams, and Jonah Harris as chief technology officer (CTO), effective June 5, 2023.

"Paul and Tom both have a track record of building successful SaaS companies as well as a broad understanding of how to drive growth and profitability at companies such as MariaDB," said Alex Suh, chairman of the board, MariaDB plc. "Over the course of seven and a half years, Michael has expertly architected the transformation of MariaDB from an open-source offering to a cloud business that successfully competes with the hyperscalers. It's thanks to his leadership and accomplishments that we enter the next growth phase, which is already reflected in our robust Annual Recurring Revenue (ARR) growth. With the additions of Paul and Tom to our already strong management team, we are confident we can move further and faster toward our ambitious goals."

"MariaDB is headed in the right direction – look at the amazing talent we've attracted, the differentiation of our products – momentum is building and it's the start of something spectacular," said Howard. "For the next phase of growth, bringing in a fresh set of eyes is what's needed to get to the next step. After many years of everyone's hard work – from engineering to sales and marketing, and everyone in between, it's all coming together. My heartfelt thanks to everyone."

O'Brien has served as SVP, sales and field operations of the company since March 2023. Prior to joining MariaDB, he served as VP, Operations at NetApp, Inc., a storage and data management company and VP, Business Intelligence and Operations at Symantec Corporation, a security company. Prior to that, O'Brien held various management positions at EMC Corporation, a storage and data management company, and HP Inc. (then Hewlett-Packard Company), a technology company, and also served as a partner at Prism Venture Partners, a venture firm. In all these roles, O'Brien was responsible for successfully guiding companies in their evolution from on-prem deployments and perpetual license software to subscription and cloud-based models.

"Having guided MariaDB sales, I've personally witnessed the immense value we deliver to customers through our products and people," said O'Brien. "There is a huge opportunity at MariaDB's fingertips and I am confident in our ability to capitalize on this potential and achieve unprecedented growth. Michael led us through significant milestones – we are now a publicly

traded company with a strong cloud product. This facilitates a smooth transition to a focused go-to-market strategy to accelerate the business toward a targeted \$100 million ARR by the end of 2025.”

Siegel has an impressive background as a sales and operations executive, coupled with extensive experience building and leading high-performance teams for both private and public SaaS companies. He was most recently CRO at Bringg, a SaaS delivery management platform. Prior to that, he was chief sales officer at Fuze, a cloud communications software company and VP of worldwide sales operations at PTC, a global software company. He has also held sales leadership positions at EMC and BMC Software. Siegel has successfully driven accelerated growth for SaaS companies through a combination of go-to-market strategy, sales leadership and adherence to key performance metrics, with demonstrated ARR growth from \$50 million to \$100 million.

“MariaDB has gone through an incredible transformation to become a prominent cloud company with MariaDB SkySQL, a second generation cloud database,” said Siegel. “This presents a remarkable opportunity for the company to take a larger share of the relational database market, expected to be \$72 billion by 2026. I look forward to working with the stellar team at MariaDB to continue driving value to customers, whether its cloud services such as backup and observability to community on-prem users or multicloud benefits with exceptional scale and resilience.”

Qualtrics Opens New EMEA Headquarters in Dublin City Centre & Unveils Plans for Innovation Centre

31 May 2023

Qualtrics, the leader and creator of the experience management category, announced it has opened its new Europe, Middle East and Africa (EMEA) headquarters in Dublin City Centre, which will feature an XM Innovation Centre focused on AI.

The EMEA headquarters, at Costello House on Clarendon Row in the heart of the city, was officially opened today by Brad Anderson, President of Products and Engineering at Qualtrics, and Simon Coveney, Minister for Enterprise, Trade and Employment.

The opening of the state-of-the-art building marks 10 years of investment and expansion in Ireland by Qualtrics, since the US-headquartered company set up a Dublin base as its first office outside of the United States in 2013. Costello House is Qualtrics largest office in EMEA and the base for the company to target further international expansion.

The Dublin office will also house a planned R&D XM Innovation Centre. Building on the strong engineering presence in Dublin, the new centre will serve as a centre of excellence dedicated to creating innovations leveraging AI, machine learning and natural language processing amongst other technologies. The facility will bring together industry experts to shape the future of experience management.

Costello House has capacity for over 500 employees and an immersive Executive Briefing Centre for customers from across EMEA to reimagine experience management for their

business. The space boasts impressive features including an employee enablement hub, gym, wellness studio, and pub. Qualtrics currently employs almost 400 people in Dublin and is continuing to hire locally.

“The depth of talent we are able to access in Ireland makes it a perfect place for our EMEA headquarters,” said Brad Anderson, President of Products and Engineering at Qualtrics. “As we continue to build across EMEA, the XM Innovation Centre will be central to our ability to drive innovation with unrivalled uses of new technologies to deliver exceptional experiences to organisations worldwide.”

Minister for Enterprise, Trade and Employment Simon Coveney T.D. said: “I warmly welcome this announcement from Qualtrics as they open their new EMEA HQ in Dublin city centre. Qualtrics is a world renowned leader in Experience Management and this highlights that we are attracting the best companies to our shores. With the new office capacity allowing for growth from 400 – 500 staff, this is also hugely positive and welcome news. Congratulations to all the team at Qualtrics on this expansion and indeed their 10 year milestone in Ireland.”

Michael Lohan, CEO of IDA Ireland, said: “Qualtrics’ new EMEA HQ in Dublin and plans for an innovation centre is a testament to the strength of the Irish talent pool. The company’s growth trajectory since it established in Ireland over 10 years ago signals confidence in the conditions that Ireland offers large scale companies. I wish Qualtrics continued success over the coming years.”

Qualtrics EMEA HQ facts:

The Qualtrics EMEA headquarters, Costello House, is named after the late Dermot Costello, who established Qualtrics in Ireland and led its European business before sadly passing away from cancer in 2018, age 49. Qualtrics established and supports 5 For The Fight, a global non-profit dedicated to ending cancer. In Ireland, Qualtrics works closely with the medical research charity Breakthrough Cancer Research.

The Qualtrics EMEA headquarters incorporates a purpose-built new office space into Qualtrics’ previous office, doubling the size of the facility and introducing many new amenities including a gym, yoga studio, games room and on-site masseuse. The canteen and meeting space, The Field, has floor-and-a-half height ceilings and the building includes Dermot’s Pub, which was moved and restored from Qualtrics previous office.

Costello House stats:

- 1.2km of cabling in the building
- 138 energy-efficient bulbs in reception
- 361 people worked on site during construction
- 63 meeting rooms and break-out spaces
- capacity for 233 people seated in The Field

Event News

Altair to Present at the William Blair Growth Stock Conference

31 May 2023

Altair, a global leader in computational science and artificial intelligence, announced that James R. Scapa, chairman and chief executive officer, and Matt Brown, chief financial officer, will participate in a fireside chat at the William Blair Growth Stock Conference on Wednesday, June 7, 2023 at 1:20 p.m. CT (2:20 p.m. ET).

A live webcast, as well as a replay, of the presentation will be available on the company's investor relations website at <http://investor.altair.com>.

Bentley Systems Announces Upcoming Conference Participation

1 June 2023

Bentley Systems, Incorporated, the *infrastructure engineering software* company, announced that members of its management team will participate at the following investor conferences:

- Greg Bentley, Bentley Systems' chief executive officer, will present at the Baird Global Consumer, Technology & Services Conference in New York, U.S.A. on Tuesday, June 6, 2023 from 2:00 p.m. to 2:30 p.m. (EDT).
- Greg Bentley, Bentley Systems' chief executive officer, will present at the Nasdaq Investor Conference in Partnership with Jefferies in London, U.K. on Wednesday, June 14, 2023 at 9:30 a.m. to 10:00 a.m. (BST).

Webcasts of the events will be available through Bentley Systems' Investor Relations website at <https://investors.bentley.com>.

HONEYWELL TO PRESENT AT WELLS FARGO INDUSTRIALS CONFERENCE

31 May 2023

Honeywell announced that Greg Lewis, senior vice president and chief financial officer of Honeywell, will present at the Wells Fargo Industrials Conference in Chicago, Illinois on Wednesday, June 14, 2023, from 8:00 a.m. – 8:35 a.m. CDT.

A real-time audio webcast of the presentation can be accessed at <http://www.honeywell.com/investor>, where related materials will be posted prior to the presentation and a replay of the webcast will be available for 30 days following the presentation.

Nemetschek Group main sponsor at the Construction Industry Day 2023 with the Bluebeam and NEVARIS brands

1 June 2023

The Build & Construct Division of the Nemetschek Group - represented by Bluebeam and NEVARIS - is the main sponsor at this year's Construction Industry Day. On 14 June 2023, high-

ranking representatives from industry, associations and politics will address the invited guests in top-class presentations. At 3 pm, Ruth Schiffmann, successful CEO of NEVARIS and Managing Director of Bluebeam for Central and Western Europe and a member of the on-site panel, will give a key talk about the topics of BIM and sustainability.

"For us, this special event offers a great opportunity to anchor BIM planning and construction with regard to the building life cycle in a holistic context," says Ruth Schiffmann, talking about Nemetschek's involvement with Bluebeam and NEVARIS at this year's Construction Industry Day. She continues: "The Nemetschek Group with its brand network supports the concept of a sustainable circular economy through a wide range of digital applications, services and comprehensive know-how. Representing the entire construction software industry, we want to bring the concept closer to the audience in Berlin. This is because building today means above all thinking about our children's tomorrow, protecting resources, respecting the existing building stock - and making an important contribution to this through our products and solutions."

Besides Ruth Schiffmann, the speakers will include Vice Chancellor and Federal Minister for Economic Affairs Robert Habeck and Federal Minister of Finance Christian Lindner. Also present will be Federal Minister for Housing, Urban Development and Building Klara Geywitz, who will open the summer party at the Tipi am Kanzleramt Theatre on the evening of 14 June 2023.

Construction Industry Day will be opened on 14 June at 1 pm by Peter Hübner, President of the German Construction Industry Association. The focus will be on sustainable construction, expansion of the transport infrastructure, procurement of affordable housing, securing skilled labour and the digital transformation. The event will be hosted by German TV news anchor Constantin Schreiber.

Link to the free registration page for Construction Industry Day 2023:

<https://info.nevaris.com/bluebeam-tag-der-bauindustrie>

PROSTEP TAKES PREMIUM PLUS SPONSORSHIP AT SIEMENS REALIZE LIVE 2023

31 May 2023

PROSTEP, a leading PLM technology partner of Siemens, is a Premium PLUS sponsor at this year's Siemens Realize Live 2023 in Las Vegas, NV.

The event, scheduled June 12-15, 2023 in the vibrant city of Las Vegas, NV, will have PROSTEP as the spotlight sponsor for the welcome reception. Additionally, PROSTEP will deliver an insightful presentation titled "Smooth Sailing through Data Migration: Lessons Learned from Real-World Examples", directed at users looking to migrate to the Siemens platform.

Realize Live 2023 is an unparalleled event that brings together industry visionaries, thought leaders, and technology enthusiasts to explore cutting-edge innovation in the product lifecycle development field. This year, the PROSTEP booth features their Mars Rover demonstrator. This versatile demo vehicle showcases PLM technologies and concepts including the digital thread,

model-based systems engineering (MBSE), and traceability. It aims to simplify the communication of these complex concepts by presenting practical implementations.

“Our commitment at PROSTEP is to continuously innovate and add value to our customers,” says Joseph Lopez from PROSTEP INC Marketing. “Siemens Realize Live offers us an excellent opportunity to not only present our insights and share lessons from real-world use cases, but also to engage directly with customers and prospects, better understand their needs and challenges, and showcase how we can help them overcome and optimize their use of the Siemens platform.”

For further information about Siemens Realize Live 2023, [click here](#).

Financial News

Hewlett Packard Enterprise reports fiscal 2023 second quarter results

30 May 2023

Hewlett Packard Enterprise announced financial results for the second quarter ended April 30, 2023.

“Building on a great start to the fiscal year, HPE grew revenue, increased the contribution of recurring revenue through the HPE GreenLake edge-to-cloud platform, and delivered exceptional profitability to generate a strong second quarter performance,” said Antonio Neri, president and CEO of Hewlett Packard Enterprise. “Our shift to a higher-margin portfolio mix led by the Intelligent Edge segment, and the strong demand for our AI offering, further strengthen the investment opportunity for our shareholders.”

“We are very pleased that the progress we are making against our strategy continues to deliver on both the top and bottom lines,” said Tarek Robbiati, executive vice president and CFO of Hewlett Packard Enterprise. “These results demonstrate that our strategy to pivot our portfolio to higher-growth, higher-margin areas is working – and that we are operating with discipline.”

Second Quarter Fiscal 2023 Segment Results

- Intelligent Edge revenue was \$1.3 billion, up 50% from the prior-year period in actual dollars and 56% in constant currency⁽¹⁾, with 26.9% operating profit margin, compared to 12.6% in the prior-year period. The business exceeded the Rule of 40 for a second consecutive quarter.
- High Performance Computing & Artificial Intelligence (“HPC & AI”) revenue was \$840 million, up 18% from the prior-year period in actual dollars and 22% in constant currency⁽¹⁾, with (0.2)% operating profit margin, compared to (5.6)% from the prior-year period.
- Compute revenue was \$2.8 billion, down 8% from the prior-year period in actual dollars and 3% in constant currency⁽¹⁾, with 15.2% operating profit margin, compared to 14.1% from the prior-year period.

- Storage revenue was \$1.0 billion, down 3% from the prior-year period in actual dollars and up 2% in constant currency⁽¹⁾, with 7.9% operating profit margin, compared to 11.8% from the prior-year period. HPE Alletra revenue grew triple digits from the prior-year period.
- Financial Services revenue was \$858 million, up 4% from the prior-year period in actual dollars and up 7% in constant currency⁽¹⁾, with 9.8% operating profit margin, compared to 12.6% from the prior-year period. Net portfolio assets of \$13.3 billion, up 5% from the prior-year period in actual dollars and in constant currency⁽¹⁾. The business delivered return on equity of 16.5%, down 3.9 points from the prior-year period.

Dividend

The HPE Board of Directors declared a regular cash dividend of \$0.12 per share on the company's common stock, payable on July 14, 2023, to stockholders of record as of the close of business on June 15, 2023.

Fiscal 2023 Third Quarter Outlook

HPE estimates revenue to be in the range of \$6.7 billion to \$7.2 billion. HPE estimates GAAP diluted net EPS to be in the range of \$0.34 to \$0.38 and non-GAAP diluted net EPS to be in the range of \$0.44 to \$0.48. Fiscal 2023 third quarter non-GAAP diluted net EPS estimates exclude after-tax adjustments of \$0.10 per diluted share, primarily related to, stock-based compensation expense, transformation costs and amortization of intangible assets.

Fiscal 2023 Outlook

HPE estimates fiscal 2023 revenue growth to be in the range of 4%-6% in constant currency⁽¹⁾, and targets fiscal 2023 GAAP operating profit growth to be in the range of 180%-184% and non-GAAP operating profit⁽⁴⁾ growth to be in the range of 6%-7%. HPE raises GAAP diluted net EPS to be in the range of \$1.42 and \$1.50 and non-GAAP diluted net EPS to be in the range of \$2.06 and \$2.14. Fiscal 2023 non-GAAP diluted net EPS estimates exclude after-tax adjustments of \$0.64 per diluted share, primarily related to stock-based compensation expense, amortization of intangible assets, and transformation costs.

Fiscal 2023 Free Cash Flow ⁽³⁾⁽⁵⁾

Reiterates guidance of \$1.9 billion to \$2.1 billion.

Fiscal 2023 Capital Returns to Shareholders

Returning approximately 60% of free cash flow to shareholders in dividends and share repurchases.

Download the Q2 FY23 earnings infographic [here](#).

H3C Technologies Co., Limited Update

HPE, through its relevant subsidiaries, has entered into a Put Share Purchase Agreement with Unisplendour International Technology Limited ("UNIS") governing the sale of shares of H3C Technologies Co., Limited ("H3C") held by HPE, through its relevant subsidiaries, which represent 49% of the total issued share capital of H3C. This follows HPE's decision in December 2022 to exercise an option to put its holdings in H3C to UNIS. Under the Put Share Purchase Agreement, UNIS will purchase all of HPE's shares in H3C for a total of U.S. \$3.5 billion in cash.

The disposition remains subject to obtaining required regulatory approvals and completion of certain conditions necessary for closing. The parties anticipate that the transaction will close in the next 6 months to 12 months, however this timeline could be extended pursuant to the terms of the Put Share Purchase Agreement.

In addition, HPE has negotiated the terms of a new go-forward Strategic Sales Agreement to be entered into with H3C that covers direct sales, service and reseller arrangements between the companies. HPE is firmly committed to serving customers and continuing to do business in China through both direct sales and our partner H3C.

¹ A description of HPE's use of non-GAAP financial information is provided below under "Use of non-GAAP financial information and key performance metrics."

² Annualized Revenue Run-Rate ("ARR") is a financial metric used to assess the growth of the Consumption Services ("CS") offerings. ARR represents the annualized revenue of all net HPE GreenLake edge-to-cloud platform services revenue, related financial services revenue (which includes rental income from operating leases and interest income from finance leases), and software-as-a-Service, software consumption revenue, and other as-a-Service offerings, recognized during a quarter and multiplied by four. We use ARR as a performance metric. ARR should be viewed independently of net revenue and is not intended to be combined with it.

³ Free cash flow represents cash flow from operations, less net capital expenditures (investments in property, plant & equipment ("PP&E") less proceeds from the sale of PP&E) and adjusted for the effect of exchange rate fluctuations on cash, cash equivalents, and restricted cash.

⁴ Non-GAAP operating profit excludes costs of approximately \$1.0 billion primarily related to stock-based compensation, amortization of intangible assets and transformation costs.

⁵ Hewlett Packard Enterprise provides certain guidance on a non-GAAP basis, as the Company cannot predict some elements that are included in reported GAAP results. Refer to the discussion of non-GAAP financial measures below for more information.

Implementation Investments

Bechtle renews experimenta partnership

1 June 2023

Bechtle AG is renewing its sponsoring partnership with the experimenta science centre in Heilbronn. The new agreement will run until the end of May 2026, following the initial contract signed in 2019. True to the motto "Experience gives rise to knowledge", experimenta's mission is to get people of all ages excited about science and technology. Since opening in 2009, Bechtle has been its trusty IT partner, providing a wide range of IT solutions and services. The science centre is packed with experiences including 275 interactive exhibitions, studios, labs, maker space, a planetarium and a Science Dome, allowing people to experience a particularly vivid form of digitalisation in the transfer of knowledge.

For Bechtle, extending its established partnership with the experimenta makes perfect sense as its concept doesn't just meet two of Bechtle's Corporate Social Responsibility Strategy criteria—education and children and young people—it also combines digital opportunities with tangible, visual, and auditory experiences, providing young people with diverse access to information technology. With this agreement, both Germany's largest system house and science centre are cementing regional ties in the Heilbronn-Franken economic area.

From digital backpacks to a glass data centre

There from the very start, Bechtle has been a crucial IT partner in equipping the science centre, managing the digital infrastructure including networking and IT security, linking up of systems and end devices as well as providing a scalable cloud solution as a foundation for experimenta's "Digital Backpack" that allows visitors to securely save images, video, and music created as they explore. The glass data centre in the foyer and eight modern labs are also equipped with hardware and software by experts from Bechtle in Neckarsulm.

Modern Workplace concept brought to life

Bechtle also supports experimenta with the ongoing development of their modern workplace to provide employees with the best collaboration opportunities as the interplay of end devices, software and services enables them to embrace flexible, hybrid and networked working.

Hivimar Selects Infor WMS as its Warehouse Management System

30 May 2023

Infor®, the industry cloud company, announced that new customer Hivimar has selected Infor WMS to increase productivity in its distribution center. The best-in-class warehouse management system has been sold and will be implemented by Cerca Technology, Infor channel partner in Latin America.

Hivimar was founded in Ecuador more than 50 years ago to import and distribute automotive and industrial parts. The company has two business units, one focused on industrial maintenance products and the other on the automotive sector. Currently, it has 10 direct sales points with more than 10,000 customers and a B2B channel for 3,500 customers. Hivimar's success is based on its commitment to its customers and its constant interest in innovation and improving processes to provide more and better services.

Hivimar has had constant growth, now with 30,000 stock-keeping units (SKUs), and it started having space problems in its distribution centers. The company needed to implement an agile, technological and efficient warehouse management system. In 2010, it implemented a voice-picking system, but it needed a central software to manage logistical operations that would integrate with the other existing enterprise solutions.

"We evaluated different options, but thanks to the work sessions, demos and Cerca Technology know-how, we selected Infor WMS. We also had the opportunity to see Infor WMS working at Grupo Berlin, a company in the automotive sector that uses the solution successfully. Infor WMS functionalities and Cerca Technology experience and methodology were the reasons for our decision," states Patricio Robalino, logistic manager at Hivimar.

The main reasons Hivimar was looking for a warehouse management solution were:

- Increase productivity in the distribution center
- Reduce time products spend in incoming processes (purchases and imports)
- Implement an intelligent system
- Increase inventory reliability
- Eliminate manual processes
- Reduce paperwork

Infor WMS met all the functionalities needed, and it's a world-class solution that applies to B2B and B2C business models and has advanced capabilities, data analytics and great user experience.

"We were looking to have an automatized operation in order to increase productivity in the distribution center, inventory reliability and have more efficient processes. Cerca Technology showed interest in our issues and had the answers we needed with demos focused on real needs," states Geovanny Altamirano, IT leader at Hivimar.

"We will support Hivimar in its growth path, implementing Infor WMS to enable better logistic practices and transform processes in the distribution center. Other goals are to increase productivity and obtain better services and improve customer satisfaction," says Paola Quiroga, Cerca Technology sales manager.

Adriana Gutierrez, channel director for Infor Latin America, adds, "Infor WMS helps companies like Hivimar manage activities efficiently in distribution centers. The solution facilitates warehouse management, optimizing labor, reducing complexity and streamlining operations. Infor WMS is a next-generation solution developed for easy user experience.

Ikano Bank Selects TCS BaNCS to Build a Bank for the Future

30 May 2023

Tata Consultancy Services (TCS) announced that Ikano Bank AB (publ) in Sweden, has selected the TCS BaNCS™ Global Banking SaaS Platform for its pan-Europe core banking transformation.

Ikano Bank operates across Europe, offering a range of financial services and banking products such as loans, savings, mortgages, and credit cards, including leasing and factoring to small and medium sized businesses. It runs on different core banking solutions in the eight countries it operates in, working with multiple broker solutions and agency banking arrangements in each. This led to country-wise silos within the organization, hindering unified risk management and a consistent customer experience.

In pursuit of its vision of becoming a bank of the future, Ikano Bank has embarked on a transformation journey that will result in a flexible, digital core that will support rapid launch of new products and expansion into new markets. In line with its objective of building multi-country capabilities on a single core banking platform, the bank selected TCS BaNCS for its future-proof event-based streaming architecture and best-of-breed functionality.

The bank aims to transform and consolidate its pan-European accounts, deposits, and unsecured retail lending business on TCS BaNCS, starting with Sweden. TCS BaNCS' component-by-design approach and proven track record in the Nordics will ensure that the bank can incrementally evolve its offerings and mitigate transformation risk while continuing to deliver value to their customers. The new centralized core banking platform will help the bank innovate and launch products faster, enter new markets, standardize processes, comply with local regulations, and enhance resilience.

Mikael Andersson, Head of Digital Delivery, Ikano Bank, said, "Our strategy is to build a bank of the future, one that is fully digital and focused on superior customer experience. Our bank has always dared to be different while also endeavoring to simplify the way we work. This core banking transformation focusing on simplifying our technological landscape with the help of a best-of-breed solution provider is reflective of this philosophy. The TCS BaNCS Global Banking Platform is a proven solution with an established track record of delivery excellence in the Nordics and will help us accelerate innovation, while our customers will benefit from contextual experiences and faster response times."

Venkateshwaran Srinivasan, Global Head, Financial Solutions, TCS, said, "We are pleased to partner with Ikano Bank in their transformational journey. The TCS BaNCS Global Banking SaaS platform provides a strong, future-ready, cloud-native digital foundation which will support the bank's innovation and growth strategy. Our track record at executing such transformations, our extensive experience in working with Nordic banks and our product suite's in-built market and regulatory readiness make us the preferred partner to progressive banks in their growth and transformation aspirations."

Tata Consultancy Services has been a transformation partner to leading institutions in the Nordics for more than three decades. It has powered banks on their digital core transformation journeys, enabled real-time payments for one of the largest Swedish banks and enhanced settlements platforms for leading central securities depositories in the region.

TCS BaNCS solutions are built on the Digital First, Cloud First philosophy with the outcome being a modern platform in the banking and financial industry in a digital world. The TCS BaNCS solution comprises innovative and adaptive digital apps and a digital core richly enabled for business supporting a wide range of products and services across asset types – assets and liabilities, cash, securities, and crypto assets for a wide variety of use cases in the financial services industry. This solution accelerates the digital transformation of traditional businesses by unshackling them from the constraints of legacy technology and powering the ambition to play into the overall ecosystem powered with a rich catalogue of APIs.

Jama Software® Announces Massive Adoption of Jama Connect®'s API

31 May 2023

Jama Software®, the industry-leading requirements management and traceability solution provider, announced that usage of its market-leading REST API is now exceeding 600 million cloud service requests per month. This massive usage reflects the rapid adoption of Jama

Connect® as organizations achieve Live Traceability™ across best-of-breed tools within the engineering function.

Live Traceability throughout the engineering process requires automated synchronization across best-of-breed tools. Jama Connect's REST API is the most mature, secure, and scalable API for requirements management and traceability:

- The richest REST API with over 200 separate API functions spanning all objects, including; projects, requirements, baselines, comments, test plans, tags, attachments, and more.
- The only SOC 2 Type 2 certified REST API in the requirements management space.
- The only multi-tenant, cloud-architected requirements management software that can handle the scale of over 600 million API cloud service requests per month and over 100,000 trailing 90-day active users.

In addition to enabling Live Traceability, Jama Connect's REST API also enables customers to gather test results from disparate tools, ensure that the entire organization is working from a single source of truth, and communicate across their supply chains in an automated fashion.

Materialise and Vuzix Announce Collaboration to Bring Smart Eyewear to Consumers

30 May 2023

Vuzix® Corporation, a leading supplier of smart glasses and augmented reality (AR) technology and products, and Materialise NV, a 3D printing pioneer, have announced a collaborative effort to accelerate the design and production of smart eyewear using 3D printing technology. By integrating 3D printing into the manufacturing process, Vuzix and Materialise aim to accelerate the development of new innovations for enterprise applications, from warehouses to operating rooms. Moreover, the collaboration will enable third-party technology, sports, and entertainment brands to rapidly introduce functional, fashionable, and affordable smart eyewear to consumers, reducing the average manufacturing cycle from 18 months to just 3.

Vuzix, an optical technology company specializing in the design, manufacturing, and sale of optical components and smart glasses, utilizes augmented reality (AR) to deliver a perfect balance of engagement between the digital and the real world. By collaborating with Materialise, a 3D printing pioneer with over three decades of experience, Vuzix gains access to the full potential of 3D printing to support companies in offering an exciting new series of smart eyewear.

Augmented reality enhances user effectiveness in various industries by connecting them to key information in a digital world while staying hands-free and completely aware of the physical environment. Medical professionals rely on smart eyewear to access remote expertise during lengthy surgeries, while manufacturing and logistics companies utilize AR features to drive efficiency and reduce operational errors. Leveraging the flexibility of 3D printing in smart eyewear production can significantly reduce design cycles, enabling a more agile response to the fast-paced introduction of technological advancements.

While smart eyewear has transformed the workplace, consumer adoption has been limited due to the lack of compelling consumer applications and the lack of fashionable and affordable designs. Vuzix and Materialise aim to address these challenges by creating exciting and innovative designs that cater to companies seeking to introduce fashionable and affordable smart eyewear to consumers.

Exciting consumer applications of smart eyewear include on-screen displays of speed and heart rate for athletes, push notifications and navigation, speech-to-text translation, and augmented reality gaming. Many companies in the technology, fashion, entertainment, and sports sectors today lack the manufacturing expertise to bring these innovative applications to life on a timely basis. The collaboration between Vuzix and Materialise provides these third-party OEM companies with a flexible platform for producing smart eyewear with creative designs, rapid prototyping services, and fast and flexible production of small series.

Materialise runs one of the largest 3D printing factories in the world and is the largest manufacturer of 3D-printed eyewear. 3D printing holds multiple advantages for eyewear production with manufacturers increasingly turning to 3D printing for its unique design capabilities and its fast and flexible production process. It offers virtually unlimited freedom of design, allowing designers to create innovative shapes that are cost-prohibitive or impossible with traditional manufacturing technologies. Additionally, 3D printing drastically reduces time-to-market, enabling the transition from initial design to finished product in less than three months, compared to the eyewear industry's typical 18-month design-to-shipment cycle.

“With its speed and flexibility, Materialise’s dedicated 3D printing factory for eyewear offers eyewear brands a competitive edge by allowing them to drastically reduce their time-to-market while meeting customers’ aesthetic requirements,” says Fried Vancraen, CEO of Materialise. “We believe that collaboration with Vuzix will bring new innovations to industrial smart eyewear and accelerate consumer adoption of smart eyewear.”

“As our OEM solutions ramp up in support of defense, consumer, and other markets, our manufacturing capabilities need to match pace for scalability, production speed, and — above all — quality,” said Paul Travers, President and CEO of Vuzix. “Materialise offers several key advantages that align with our strategic outlook. We look forward to seeing what’s possible together.”

Pettenon Cosmetics Selects Centric PLM to Streamline Product Development

30 May 2023

Leading Italian cosmetics group Pettenon Cosmetics Spa SB, has selected Centric Software’s Product Lifecycle Management (PLM) solution. Centric Software® provides the most innovative enterprise solutions to plan, design, develop, source, price and sell products such as apparel, footwear, sporting goods, furniture, home décor, cosmetics, food & beverage and luxury to achieve strategic and operational digital transformation goals.

For more than 70 years, Pettenon Cosmetics Spa SB has been supporting high-quality Italian Professional Hair Care in Italy and worldwide. They offer premium products that can be customized to meet specific market needs and suit different hair types and

conditions. Pettenon Cosmetics Spa SB boasts an impressive sales network spanning 91 countries across the globe and produces 170,000 items every day, including shampoo, masks, styling products, hydrogen peroxide and other technical goods.

Pettenon Cosmetics Spa SB aims to create beauty in an ethical and sustainable way through cosmetic products that maximize the potential of those who use them.

The commitment to operating responsibly, sustainably, and transparently is reflected in the fact that Pettenon Cosmetics Spa SB officially became a Society Benefit in Italy in 2021.

Pettenon's Cosmetics Spa SB longstanding success can be attributed to its commitment to three strategic pillars —innovation, digitalization, and sustainability. In 2022, Pettenon Cosmetics Spa SB realized they needed a new digital solution to sharpen their competitive advantage and commitment to their guiding pillars.

"Teams were wasting valuable time manually inputting data, which also opened the door to human error," says Giulio Pistolato, CIO of Pettenon Cosmetics SPA SB. "We saw an opportunity to streamline data and automate tasks to support teams, improve productivity and reduce costs."

After undertaking an intensive internal process analysis and assessing solution options, Pettenon Cosmetics Spa SB selected Centric PLM for Cosmetics and Personal Care to support its digital transformation goals.

"We chose Centric PLM®, because it was able to meet all of our needs and is one of the best solutions available in the industry," says Pistolato. "PLM's single repository for data and its power to increase efficiency, reduce the risk of error, and ensure we are meeting safety and environmental standards will ultimately lead to enhanced product quality and reduced time to market."

Pettenon Cosmetics Spa SB will deploy Centric PLM across several departments, including research and development, procurement, supply chain and IT. PLM will be the platform for more than 50 new product development projects.

"We expect Centric PLM will significantly streamline product development," says Pistolato. "With automation, we anticipate increased productivity, reduced costs, and enhanced product quality — all leading to increased competitiveness in the market."

Collaboration is another core value of Pettenon Cosmetics Spa SB, and they foresee an ongoing partnership with Centric Software.

"The collaboration with the Centric Software team has been extremely successful, collaborative and has set the groundwork to grow," adds Pistolato.

"We are thrilled to be partnering with Pettenon Cosmetics Spa SB," says Chris Groves, CEO of Centric Software. "Our companies are aligned in our values of innovation, digitalization and sustainability and we look forward to working with Pettenon Cosmetics Spa SB over the long-term."

Pillar Oil Modernises Financials with Infor and Progressive TSL

31 May 2023

Infor®, the industry cloud company, announced that independent energy company Pillar Oil has deployed Infor SunSystems Cloud and Hexagon EAM from Infor Gold Channel Partner Progressive TSL. Underpinned by Progressive's Best Practice Industry Framework, which is designed to configure the solution to meet the very specific industry standards inherent in the upstream oil & gas sector, Pillar Oil will benefit from enhanced efficiency, reporting, and the ability to scale easily.

Pillar Oil is a wholly indigenous exploration and production oil and gas company operating in Nigeria. Having previously used SAP Business One, the company needed an integrated, more efficient solution that would not only meet its operational needs, but would also enhance reporting and visibility, and help bring new entities on board quickly. Infor SunSystems Cloud and Hexagon EAM now facilitate a more deft way of managing financial management and procurement for the energy company. One of the key benefits of the cloud deployment is that documents can be reviewed and approved at any time, in any location, reducing bottlenecks and expediting processes.

"With deep expertise and experience in the upstream oil and gas sector in this region, Progressive really is the go-to partner for organisations like us that need a financial management solution to support the taxation and regulatory nuances of both the industry and our geography," comments Uche Nwangboje, Pillar Oil general manager. "Given the nature of our business, and the agility needed when opening up new entities, having both a partner that understands our needs and a solution that can meet them are paramount.

"Throughout the project, the Progressive team was on site, working closely with us at every stage, a testament to which is that we went live in just over four months. Now, we can achieve in a click what would have previously taken us days, so we are already seeing massive gains. Against this backdrop, we have absolute confidence that the Infor solution will serve us well as we scale in the coming years," Nwangboje added.

Chris Walcot, CEO of Progressive TSL, commented: "Having identified a need to replace its previous system from SAP, Pillar Oil required a fully integrated platform to support its financials, crucially with industry-specific capabilities built in to reflect the nuances of the Nigerian oil & gas sector. Opting for an Infor cloud deployment to take advantage of reduced risk and improved security, as well as a much easier way of supporting a remote workforce, the energy leader really is in the best position from which to pursue its expansion plans and scale as market dynamics dictate."

Sahli Reaps Rich Harvests in the Cloud

30 May 2023

Infor®, the industry cloud company, announced that Sahli AG has implemented Infor CloudSuite Industrial Enterprise. Sahli is a leading supplier of agricultural machinery spare parts and agricultural equipment operating in Switzerland and Liechtenstein. The company is responding

to the increasing requirements in terms of agility and flexibility as well as improving strategic insights with high-quality data management.

Long-standing Infor partner AS infotrack AG was responsible for the implementation of the Infor CloudSuite industrial manufacturing and support of the project. The IT service company has over 25 years of experience with Infor solutions.

Sahli AG is a fifth-generation family business based in Knonau, Switzerland. The company carries more than 42,000 items in its product range and impresses with a stock availability of 97 percent. Keeping up such an exceptionally high rate puts a heavy load on internal and external merchandise management, especially in view of increasing globalisation, which demands more and more agility and flexibility. The switch to the cloud was the next logical step in the company's digital transformation to ensure the best possible level of permanent transparency, insight and performance.

Sahli AG's decision in choosing Infor was primarily based on the comprehensive approach via a fully standardized platform of Infor CloudSuite. Infor CloudSuite Industrial Enterprise is the technological backbone for modernising companies and offers a complete industry-specific solution package for enterprise resource planning in the multi-tenant cloud. It convinced Sahli with its sophisticated features regarding planning, costing, as well as independent working, which support the company in its daily work. The Infor solution makes a decisive difference in connecting the field staff to the company. They can now access the system from anywhere using mobile devices and always call up all the necessary information — about availability, prices and delivery times, for example — up to date and in real time. This not only benefits the employees but also strengthens the relationship with the customers through the reliability of the information.

As a wholesaler, Sahli AG also has high requirements for sales price calculations and, due to multi-component articles, also uses the module in the production area. The company continues to rely on high-performance interfaces to the web shop, its own warehouse management system, suppliers and service providers, and Infor OS and the Infor API with the interface platform can provide the ideal backbone. With the help of the implementation partner AS infotrack, the Infor solution could be introduced within only a single year, tailored to the needs of the company.

In Infor, Sahli has also found a partner that ensures the systems are up to date as well as secure. As a SaaS solution package, Infor CloudSuite Industrial Enterprise is operated via Amazon Web Services (AWS), which means the underlying infrastructure is permanently updated and with the highest security standards.

"Infor convinced us above all with its overall package. With an assortment of over 42,000 articles, we always have to keep an overview and be up to date on availability, delivery times and price changes. Infor offers the right features for all areas, which ensure that we are always up to date with the latest information. In addition, we had already worked with the implementation partner AS Infotrack before and trust the team there," says Claudio Buvoli, CEO at Sahli AG.

"When a family-run company like Sahli entrusts us with its digital infrastructure, we are always particularly pleased — and, of course, we are aware of the responsibility," says Wolfgang Kobek, Infor executive vice president & general manager international business. "With the industry-specific Infor multi-tenant cloud, the organisation has chosen a solution that is precisely tailored to its needs and benefits from best practices from the industry, among other things."

The Technology House Accelerates Large-Scale Parts Production with 3D Systems' SLA 750

25 May 2023

3D Systems announced **The Technology House (TTH)**, an Ohio-based contract manufacturer, has purchased an **SLA 750** to enhance its manufacturing workflow. 3D Systems' latest Stereolithography (SLA) printer offers unprecedented levels of throughput and reliability as compared to other available SLA printers. The combination of the SLA 750's high-speed production, large build area, and broad materials portfolio is allowing TTH to expand the services offered to its customers. TTH is now able to help its customers push the boundaries of innovation — from prototyping to finished parts — for a range of industrial and healthcare applications.

The Technology House opened in 1996 as a 3D Systems customer with one SLA 500 3D printer. Since that time, TTH has continued to integrate additional 3D Systems SLA printers including SLA 5000s, SLA 7000s, and Vipers among other 3D Systems technology. After 3D Systems **introduced the SLA 750** in 2022, TTH chose to add it to their workflow due to its exceptional capabilities, including enhanced automation and efficiency that results in shorter lead times, faster post-processing, and improved part quality.

"We've been a customer of 3D Systems for over 25 years," said Lauren Good, VP, finance, The Technology House. "We've found their solutions, service, and overall partnership invaluable to our business. After our thorough evaluation of the competitive landscape, we chose to add the SLA 750 to our manufacturing workflow not only due to its speed and accuracy which allows us to produce both large parts as well as fine feature detail, but also for the number of production-grade materials that we can now offer. 3D Systems' material portfolio expansion with the SLA 750 allows us to offer better solutions to our customer base faster. We can complete jobs much more efficiently with very little post-processing. Having the SLA 750 is helping us get more throughput out the door which means we are able to complete the job in half the time and offer a better cost to our customers."

3D Systems' SLA 750 is designed to deliver the industry-leading combination of print size, speed, accuracy, and resolution for final parts that possess unmatched finish and mechanical performance. The 3D printer delivers up to 30% faster print speeds and has a 15% larger build envelope and smaller hardware footprint than previous models, allowing manufacturers to optimize and scale production. The system features a self-calibrating dual-rail recoater to improve print process reliability and final part mechanical properties. Additionally, Hyper-Scan™ vector technology — a proprietary scanning algorithm developed to address the unique

requirements of production additive manufacturing applications — optimizes key speed and productivity elements such as laser focus and power, as well as vector motor kinematics to deliver significantly improved printer speed and throughput. The printer includes downstream automation readiness and is robot compatible for 24/7 lights-out operation (e.g., fully automatic printer turnover, job-offloading, washing, on-boarding). The SLA 750 also includes **3D Sprint**[®], all-in-one software to prepare, optimize, and print 3D CAD data. 3D Sprint delivers all the tools needed to quickly and efficiently go from design to high-quality, true-to-CAD printed parts without relying on multiple software packages.

“We’re excited to have The Technology House as an early adopter of our SLA 750 solution,” said John Murray, vice president, global ISG segment & business development, 3D Systems. “As a long-standing 3D Systems customer, they have been able to leverage our innovation evolution to benefit both their business and their customers. The combination of the SLA 750’s enhanced speed, optimized laser scanning, improved resolution, and part quality, and faster industrial-scale post-processing is helping TTH more efficiently serve their customers. As a result, they are able to take on even more business which is helping them maintain their position as an industry leader. I look forward to seeing how they’ll continue to grow and deliver additional benefits for their customers.”

Tokushima University and Helical Fusion Co., Ltd. Utilize "MSC Apex" in 3D Neutron Transport Monte Carlo Simulation Calculations for Next Generation Helical-type Fusion Reactor

31 May 2023

Hexagon Manufacturing Intelligence division (Chiyoda-ku, Tokyo; President: Masaki Konno) announced that Department of Radiation Science and Technology, School of Health Sciences, Faculty of Medicine, Tokushima University, (Tokushima City, Tokushima Prefecture, Japan; Minoru Sakama Laboratory) (hereinafter referred to as "Tokushima University") and Helical Fusion Co., Ltd. (Co-founders: Takaya Taguchi, Junichi Miyazawa, and others) (hereinafter referred to as "Helical Fusion") have been using "MSC Apex" for the generation of the MSC Nastran input data in 3D neutron transport Monte Carlo simulation calculations of next-generation helical-type nuclear fusion.

Tokushima University has performed 3D neutron transport calculations for advanced design blanket of a helical-type nuclear fusion reactor to evaluate TBR (Tritium Breeding Ratio) in an advanced design blanket of a helical-type fusion reactor under the joint research program of the National Institute for Fusion Science, Japan, where a helical-type plasma experimental device is located. In July 2022, they started joint research with Helical Fusion on this 3D neutron transport Monte Carlo simulation calculation, i.e., PHITS calculation code.

In order to evaluate neutron transport in advance with accuracy, it is especially important to accurately represent the target structure in the computational domain in radiation transport analysis in advance. In this research, high resolution representing the design of the next-generation helical-type nuclear fusion reactor by Helical Fusion is inevitable. However, it is extremely difficult to accurately represent complex design structures like a helical structure in

PHITS calculation space. Tokushima University, therefore, used "MSC Apex Modeler" to generate MSC Nastran input data to be imported into the PHITS calculation code from the 3D CAD data of the next-generation helical-type nuclear fusion reactor. In this workflow, 3D CAD data was imported into MSC Apex Modeler, geometries were edited, and solid mesh was generated to obtain the input data in MSC Nastran input data format. Then, the file output from MSC Apex was loaded in the PHITS calculation code and the calculation was performed successful.

Before using MSC Apex, the conventional method could not handle CAD data. Therefore, they had no way to deal with errors such as intersections generated during meshing, or could not handle the data in the GUI. However, various geometry editing and solid meshing functions in MSC Apex allow the user to detect intersections and other errors in the GUI and to visually edit geometries with advanced tools such as "Vertex/Edge Drag".

Professor Minoru Sakama, Department of Radiation Science and Technology, School of Health Sciences, Faculty of Medicine, Tokushima University, says that "In radiation transport simulation analysis, workflows to import the data of complex structures such as helical-type nuclear fusion reactors and curved structures such as NURBS, including the human body, into radiation transport calculation domain are not well known. We expect that MSC Apex Modeler, advanced solid meshing software, will be widely used increasingly and new solvers for radiation-related matters will be born in the future."

YMCA Trinity selects Idox's CAFM Explorer® to streamline its facilities management

31 May 2023

Enabling complete visibility of facilities tasks, costs, and risks, CAFM Explorer will empower YMCA Trinity staff to automate task assignments, streamline reporting and unlock significant productivity gains.

As the largest and oldest youth charity in the world, one of the YMCA's focuses is to provide housing and personalised support services to young adults to give them a fresh start in life. In addition to residential accommodation, the Charity also operates gyms, childcare facilities and entertainment functions. With multiple sites spread across East Anglia, YMCA Trinity provides a home to young people experiencing homelessness each year, so it has a huge responsibility to ensure its sites are safe and compliant with regulations.

Previously, the Charity did not have a centralised facilities management function, which meant that staff found it challenging and time-consuming to access the information they needed to keep properties maintained, safe and secure. An inefficient, paper-based system limited the team's reporting function and lacked the insight that could be achieved from a centralised digital system.

Realising the need for a streamlined facilities management solution, YMCA Trinity selected Idox's CAFM Explorer because it represented great value in terms of its breadth of functionality vs. cost. Jon Cooper of YMCA Trinity comments, "We were looking for an easy-to-use facilities management solution that would support us to transition from manual, paper-based processes to a digital solution with centralised data at its core. With many different modules and its scope

of functionality, CAFM Explorer not only suits our budget and requirements today but also offers a futureproof solution to suit our needs as the Charity grows and evolves.”

YMCA Trinity will be using CAFM Explorer across its sites in East Anglia to store all documentation centrally and enable staff to easily share and access all the information they need when they need it. The Charity will also be using the system to:

- Manage property information, compliance and risks
- Enable efficient planned maintenance management
- Record and report on energy usage
- Support reactive maintenance reporting
- Record details of assets
- Deliver insightful management reporting

The team aims to use CAFM Explorer’s checklist functionality to remove reliance on paper forms and allow for better reporting. Remote area managers will be able to access CAFM Explorer via mobile devices to quickly and easily view the status of their properties and take action where required.

Product News

BETA CAE Systems announces the release of the v23.1.2 of its software suite

30 May 2023

About this release

The new version 23.1.2 of ANSA, EPILYSIS, META, KOMVOS and FATIQ is now officially available.

This new release reveals the latest updates made to our expanded BETA product line, empowering teams and engineers through upgraded performance, boosted stability, and innovative product development implementations.

Known issues resolved in ANSA

CAD Import/ Export

The queue time for an available license via BETA LM is now controllable, through a dedicated setting.

Database Browser

Loading an ANSA Database with numerous User Attributes has been accelerated by 93%.

Modular Run Management

While saving a Simulation Model or Loadcase in SPDRM, the "Representation File Content" attribute would randomly be omitted, leading to errors during the export of any Simulation Run that used the problematic entity.

Connections & Assembly

Concerning "Bolt On Solid" representation, the "Create contacts between parts" function execution in conjunction with D=0 would lead to aborted operation.

Unexpected termination could occasionally occur when realizing a connection while FE perimeters were visible, or while defining a connection curve manually via using different selection options.

Shell Mesh

Several cases that could lead to aborted ANSA operation have been successfully combatted. Such selected cases included:

- Applying Middle Mesh > Auto Generate [Extrude] on non-extruded parts.
- Replacing the existent layer elements connected to the external geometry.
- Executing Middle-Mesh on O-Junction (shells).

DECKs

Deleting modified entities during Model Cut would lead to unexpected termination.

During Beam creation process, ANSA would abort when edges were selected with "SelectFront Only" option.

Output of models containing SETs with ranges would require excessive time.

Known issues resolved in EPILYSIS

Performance

A significant performance increase (~3 times faster) has been achieved for the last frequency step in SOL111, in cases where Block Lanczos was used and multiple frequency steps were calculated.

Output

Unexpected termination could occur when calculation of participation factors was requested with the AMLS method, as this calculation is not currently available when the AMLS method is used.

SOL103

Abrupt software abortion could occur in SOL103, in case of multiple SUBCASEs with different output sets.

Known issues resolved in META

Managing Curve Data

Performance has now been significantly improved while reading curve data from THP files, reaching to 2.5 times faster on Linux OS and 5.5 times faster on Windows OS.

Moreover, axes titles and values would disappear, when applying a non-existing value as specific abscissa.

Curve Functions

META would unexpectedly terminate when multiplying curves via session commands.

Data Management

During Session Recording, META would not create the correct \$ {DM_GEOMFILE_0 } variable in the session to automatically read the correct geometry, resulting in wrong outcome.

FEMZIP

Abrupt META abortion would occur, when reading LS-DYNA geometry from a FEMZIP file.

NVH Calculators

Focusing on FRF Assembly, the frequency range check for FRF components with uneven frequencies could issue wrong errors, if the required maximum frequency matched exactly the available maximum frequency.

Regarding Random Response, RMS result was not loaded for Auxiliary Stresses of CBAR elements.

User Toolbars

Grouped toolbars were not loaded correctly from the "Load" button of the Toolbar Designer.

Known issues resolved in KOMVOS

Data Management

Overwriting the existing DM item after editing its representation file, could unexpectedly fail.

The values of "ANSA Creation Date" and "ANSA Modification Date" displayed in the list of search results could be erroneous.

Machine Learning

The License Server arguments "lm_retry" and "lm_retry_timeout" are now also effective for the ML Toolkit during ML training or prediction.

For more details about the new software features, enhancements and corrections please, refer to the Release Notes document.

Known issues resolved in FATIQ

Abaqus

Calculations for Abaqus Random Response were wrong in the case of multiple Analyses.

Calculations

Intermediate results would not be calculated when changing loads and re-running the analysis.

Post-processing

Transfer function plot could not be read from an .xml file.

Compatibility and Supported Platforms

ANSA files saved by all the first and second point releases of a major version are compatible to each other. New major versions can read files saved by previous ones but not vice versa.

META Project files saved from version 23.1.2 are compatible and can be opened by META version 16.0.0 or later.

Support for Mac OS has been discontinued.

Support for 32-bit platforms has been discontinued for all operating systems.

Cadence Collaborates with Arm to Accelerate Mobile Device Silicon Success with New Arm Total Compute Solutions

28 May 2023

Cadence Design Systems, Inc. announced it has continued to expand its collaboration with Arm to advance mobile device silicon success, providing customers with a faster path to tapeout through use of Cadence® digital and verification tools and the new Arm® Total Compute Solutions 2023 (TCS23), which includes the Arm Cortex®-X4, Arm Cortex-A720 and Cortex-A520 CPUs and Immortalis™-G720, Mali™-G720 and Mali-G620 GPUs.

Cadence Digital Flow for Arm TCS23

Through this latest collaboration, Cadence delivered comprehensive RTL-to-GDS digital flow Rapid Adoption Kits (RAKs) for 3nm and 5nm nodes to help customers achieve power and performance goals using the new Arm TCS23. The Cadence tools optimized for the new Arm TCS23 include the Cadence Cerebrus™ Intelligent Chip Explorer, Genus™ Synthesis Solution, Modus DFT Software Solution, Innovus™ Implementation System, Quantus™ Extraction Solution, Tempus™ Timing Signoff Solution and ECO Option, Voltus™ IC Power Integrity Solution, Conformal® Equivalence Checking and Conformal Low Power. Cadence Cerebrus provided Arm with AI-driven design optimization capabilities that resulted in 50% better timing (TNS), a 10% reduction in cell area and 27% improved leakage power on the Cortex-X4 CPU, empowering Arm to achieve power, performance and area (PPA) targets faster.

The digital RAKs provide Arm TCS23 users with several key benefits. For example, the AI-driven Cadence Cerebrus automates and scales digital chip design, providing customers with improved productivity versus a manual, iterative approach. Cadence iSpatial technology provides an integrated implementation flow, offering improved predictability and PPA, which ultimately leads to faster design closure. The RAKs also incorporate an innovative smart hierarchy flow that enables accelerated turnaround times on large, high-performance CPUs. The Tempus ECO Option, which provides path-based analysis, is integrated into the flow for signoff-accurate, final design closure. Finally, the RAKs utilize the GigaOpt activity-aware power optimization engine, which is incorporated with the Innovus Implementation System and the Genus Synthesis Solution to dramatically reduce dynamic power consumption.

Cadence Verification Flow for Arm TCS23

Arm used the Cadence verification flow to validate the Cortex-X4, Cortex-A720 and Cortex-A520 CPU-based and Immortalis-G720, Mali-G720 and Mali-G620 GPU-based mobile reference platforms. The Cadence verification flow supports Arm TCS23 and includes the Cadence Xcelium™ Logic Simulation Platform, Palladium® Z1 and Z2 Enterprise Emulation Platforms, Helium™

Virtual and Hybrid Studio, Jasper[®] Formal Verification Platform and Verisium Manager[™] Planning and Coverage Closure tools.

The Cadence verification flow lets Arm TCS23 users improve overall verification throughput and leverage advanced software debug capabilities. Cadence also validated that Cadence Perspec[™] System Verifier, VIP and System VIP tools all support TCS23-based designs to enable customers to accelerate time to market when assembling TCS23-based SoCs. In addition, the virtual and hybrid platform reference designs include the Arm Fast Models to enable early software development and verification through the Cadence Helium Studio as well as the Cadence Palladium and Protium platforms, also known as the dynamic duo.

“With the delivery of Arm TCS23, we’re unlocking the creative potential for customers around the world who demand high performance and efficient compute for next-generation mobile experiences,” said Chris Bergey, senior vice president and general manager, Client Line of Business at Arm. “Through our ongoing collaboration with Cadence, we successfully leveraged the Cadence digital and verification flows to get our latest generation of CPUs and GPUs into our customers’ hands faster and accelerate time to market.”

“Arm is known for building foundational computing platforms that address performance and efficient compute requirements, and the new Arm TCS23 is aimed at empowering designers to create the world’s most advanced mobile designs that provide the best user experience,” said Dr. Chin-Chi Teng, senior vice president and general manager, Digital & Signoff Group at Cadence. “By collaborating with Arm on the development of TCS23 and by delivering innovative digital and verification flows, we’re jointly leading our customers to improve overall productivity and achieve faster time to tapeout.”

The Cadence digital and verification flows support the Cadence Intelligent System Design[™] strategy, which enables customers to achieve SoC design excellence.

Enhancing Business Operations: Sage Intacct's Latest Updates Simplify Finance for SMBs Globally

24 May 2023

Sage, the leader in accounting, financial, HR, and payroll technology, announced a series of innovative updates to Sage Intacct to help businesses across the world simplify financial consolidations, streamline operations and improve financial planning.

"Midsize businesses require speed and agility in the finance and accounting workflows that underpin every facet of their operations," said Dan Miller, EVP Sage Intacct. "We're helping them modernize their financial management systems to streamline processes and gain insights, enabling them to drive efficiency, reduce costs, and prepare for rapid growth."

Partial Ownership through Tiered Consolidations

This innovative feature streamlines the consolidation process at an entity level by period, taking ownership percentages into account. By simplifying partial ownership through tiered

consolidations, Sage Intacct enables businesses to save time and resources while increasing accuracy.

The solution addresses a significant need in the market for a more flexible and comprehensive approach to financial consolidation for businesses expanding and diversifying their portfolios.

Key Benefits of Partial Ownership through Tiered Consolidations include:

1. **Improves accuracy and efficiency**, as different ownership percentages across multiple entities are accounted for. Businesses can avoid time-wasting corrections and minimize complexity with automated consolidations, currency translations, non-controlling interest, and eliminations.
2. **Ensures accurate and transparent financial reporting**, giving stakeholders a clearer and more accurate picture of the business's financial health. They can then make better-informed decisions about investments, resource allocation, and strategic planning.
3. **Streamlines workflows**, enabling businesses to save time and reduce the risk of errors. Ownership history management allows users to confirm accuracy of ownership structures by reporting period.
4. **Allows for greater flexibility and customization**, as users can easily adapt the feature to their unique needs and preferences. Businesses can manage complex ownership structures by period with reporting books generated for each reporting level and parent entity.

Partial Ownership through Tiered Consolidations is now available for Early Adopter users in the US, UK, Canada, Australia and South Africa.

Sage Distribution and Manufacturing Operations (SDMO)

A purpose-built cloud-native ERP solution designed and developed for midsized distributors and discrete manufacturers who want to be more resilient, agile and responsive in an ever-changing world.

Powered by deep functional capabilities, SDMO simplifies complex business processes through industry best practices and guided workflows that make it easy to manage key processes across:

- Procurement - buy and put-away
- Manufacturing - make and assemble
- Distribution - sell and distribute
- Inventory and warehousing
- Resourcing and skills management

"Sage's Intacct platform simplifies complex processes by leveraging years of experience and customer feedback," said Rob Sinfield, VP Product, Sage. "Increased interest from our partners

confirms the value of our solution. We know businesses want a simple, yet fully functional cloud transition, and we're committed to delivering it."

Sage Distribution and Manufacturing Operations is now available for Early Adopter users in France, UK, US, South Africa, Namibia and Canada.

Sage Intelligent Time

An AI-powered time tracking tool for Sage Intacct, providing organizations with accurate and real-time insights to profitably manage their operations. The software uses machine learning algorithms to automate time tracking, reducing manual effort and empowering organizations to make data-driven decisions about staffing and project management.

Sage Intacct Planning

An intuitive financial planning and analysis solution designed for SMBs that streamlines budgeting, forecasting, and 'what-if' scenario analysis. With powerful and easy to use features, it brings finance and operations teams together to plan more effectively, resulting in simplified, insightful, and results-driven budgets.

HCLTech Launches SmartPaaS Using Red Hat OpenShift To Accelerate Enterprise Cloud Adoption

29 May 2023

HCLTech, a leading global technology company, has expanded its collaboration with Red Hat to launch SmartPaaS, a Platform-as-a-Service offering, to enable enterprises to fast-track their digital transformation journeys.

Enterprises today are rapidly moving to the cloud to streamline innovation and establish more resilient and responsive business models that leverage cloud-native services across hybrid and multicloud environments. SmartPaaS, powered by Red Hat OpenShift, enables enterprises to adopt a modern, efficient and automated platform to support faster innovation cycles, more productive teams and sustainable growth. This offering includes end-to-end consulting, implementation, modernization and integration services.

"This investment and engineering-based collaboration with Red Hat helps SmartPaaS supercharge our clients' digital transformation journeys," said Rampal Singh, Vice President and Head, Hybrid Cloud Services, HCLTech. "SmartPaaS, powered by Red Hat OpenShift, combines state-of-the-art enterprise services and solutions for hybrid multicloud PaaS adoption and modernization that helps enterprises optimize resources and technology costs."

"Red Hat OpenShift is powered by an extensive partner ecosystem to deliver enhanced capabilities and services across hybrid cloud environments," said Steve Erdman, Global Vice President, Services & Systems Integrator Partners, Red Hat. "By running HCLTech's SmartPaaS on Red Hat OpenShift, customers can further extend applications wherever necessary in order to more effectively modernize operations and achieve better business outcomes."

HCLTech's CloudSMART consulting-led approach, combined with Red Hat's vision to enable Cloud 3.0 through its industry-focused strategic hybrid cloud offerings, helps enterprises adapt to the cloud and accelerate their business transformation.

Red Hat, the Red Hat logo and OpenShift are trademarks or registered trademarks of Red Hat, Inc. or its subsidiaries in the U.S. and other countries.

Honeywell Expands Honeywell Forge Performance+ Software Suite With Its Honeywell Connect Release

25 May 2023

Honeywell introduced new products and enhanced applications for its Honeywell Forge Performance+ software suite aimed at increasing productivity and driving key digitalization outcomes. These new features and enhancements come at a time when industrial data is doubling roughly every two years, and organizations are challenged with how best to turn data into insights and profitable outcomes.

"It's critical that companies learn how to harness this data at an enterprise level to drive intelligent, sustainable, safe and secure operations. Without it, they will continually be playing catch-up in operational efficiency and productivity," said **Kevin Dehoff**, president and chief executive officer, Honeywell Connected Enterprise. "Honeywell Forge, which is purpose-built SaaS for vertical markets, is designed to deliver better insights to help address these problems and improve performance."

For Honeywell's industrial and supply chain customers, new and enhanced applications to the Honeywell Forge Performance+ suite are now available or will be available soon. These include:

- **Honeywell Forge Performance+ for Industrials | Production Intelligence**, an advanced analytics and insights solution for industrial end-users, offers key customer benefits, including up to 30% improved worker productivity and up to 3% improved plant throughput. These benefits underscore the fact that business is now entering a new industrial revolution powered by digital innovation. Through outcome-based insights and persona-driven dashboards, Honeywell's new digital insights solution empowers industrial users by allowing them to spend less time sorting through operational data and more time optimizing performance.
- Within supply chain, Honeywell is introducing several enhancements to **Honeywell Forge Performance+ for Distribution Centers** to better enable intelligent operations. Enhanced analytics capabilities include new visualizations of operational KPIs and the introduction of trends for operational KPIs, to help users to see changes over time so they can make productivity adjustments. A new mobile incident response feature allows workers to manage incidents on the go from a mobile device.

"Honeywell Forge has helped with recognizing where there are opportunities to either improve productivity and efficiency or prevent any sort of breakdowns with some of our machinery," said Shawn Keena, director of operations at Gordon Food Service, the largest family-owned

food service business in North America. "Honeywell Forge has empowered us to ensure that our systems are running properly. That type of consistency has been very important, and our customers feel that."¹

According to the Abnormal Situation Management (ASM) Consortium and the National Institute for Standards and Technology (NIST), U.S. process plants may lose more than \$20 billion a year from process deviations, 50% which are directly attributable to human errors.² To further help industrial personnel expand their skills and capabilities, **Honeywell Connected Workforce Competency** – a new cloud-deployed operations training tool – provides easy access to comprehensive experiential training content, anywhere and anytime, with the addition of new enterprise-wide competency KPI aggregation and reporting. Organizations can now train their personnel to help them prevent abnormal events and human errors, creating the opportunity to decrease training time and to enhance employee effectiveness.

"More than ever, the industrial workplace and employees require new technology and training to meet challenges with process modeling and technical knowledge gaps," Dehoff said. "Our solutions not only help upskill and support the training of industrial workers, but also provide enhanced analytical features to enable organizations to achieve their best performance."

With new and enhanced ready-now solutions across industrials, life sciences, and supply chain, Honeywell continues to drive digitalization and sustainability outcomes for its customers. These solutions provide integrated perspectives, guided diagnoses and actionable insights to help optimize performance, improve productivity and reduce operational risks.

New Mastercam Content Is Here! – SolidProfessor

22 May 2023

Our Mastercam content is expanding! Now with over 75 courses available, this massive content library can be intimidating at first glance. Here are some of the most important starting points for any Mastercam engineer.

Getting Started

Unlock the power of Mastercam's CAD and CAM features. Gain the confidence and expertise to unleash your creativity, turning your concepts into tangible results.

GETTING STARTED PROJECTS: CAD – In this course, you will learn about Mastercam's 2D geometry creation tools. Knowledge of these tools is essential for many CAD and CAM features within Mastercam.

GETTING STARTED PROJECT: CAM – This is a quick-start course for CAM. By continuing with the CAD Model, you have already created from the "Getting Started Projects – CAD", you will continue to Mastercam Milling features. You will learn some of the basic workflows for creating CNC programs to mill a simple part, including a flip to machine the back side, verification, and post processing.

User Interface

Understanding the user interface in Mastercam is the key to accessing your full potential. These

courses provide essential knowledge and deep insights into the navigation, functionality, and advanced features, allowing users to be as efficient as possible.

TOUR THE INTERFACE – Here you will learn all about Mastercam’s Interface, ribbon navigation, mouse functionality, menus, hot keys, and much more. This course is essential for all Mastercam users.

ADDITIONAL INTERFACE FUNCTIONS – This course is a deeper dive into Mastercam’s state-of-the-art interface. Covering features that are a “must have” for serious Mastercam users.

FILE MENU, BACKSTAGE – In this course, we cover the File Menu, also referred to as “The Back Stage”. This is where all your file functions are located, including printing, auto save, merge, CAD conversions, import/export, configuration, change recognition, file tracking, backups, migration, Mastercam community, and much more.

VIEWS, PLANES, AND WCS – In this course, you will learn how to create planes in Mastercam. The (T)ool Plane, The (C)onstruction Plane, (G)raphics view and WCS (Work Coordinate System). These are essential tools for all Mastercam user types.

ANALYZE TOOLS – Learn all about Mastercam’s many ways to analyze 2D and 3D wireframes, solid model integrity, model draft angle analysis, toolpaths, and more. It is critical to have a clear understanding and awareness of these features.

GEOMETRY SELECTION AND CHAINING – In this course, you’ll learn all about Mastercam’s many geometry selection methods and chaining, which is key to most everything you do in Mastercam.

Defining Toolpaths

Achieving familiarity with toolpath features and functions in Mastercam is a great way to enhance your productivity, while minimizing errors and waste in the manufacturing process. These courses provide essential knowledge on setting properties, chaining techniques, linking parameters, and tool setup.

TOOLPATH INTRODUCTION – In this course, you will learn about selecting the CNC machine, setting the machine group properties, 2D and 3D chaining, Solid chaining, linking parameters and the associative linking option. This is an essential course for all CAM applications.

DEFINING MILL TOOLS – In this course, you will learn how to set up cutting tools for milling in Mastercam. This includes all CAM applications that have a milling component such as Mill, Mill 3D, Mill with Lathe, Mill-Turn and Multi-Axis.

TOOLPATH AND MACHINING MANAGEMENT – In this course, you will learn about Toolpath machining and management that is necessary for all CAM functionality within Mastercam.

Mill Operations

Mastering the milling operations in Mastercam opens doors to increased precision, efficiency, and versatility in machining. By understanding and utilizing these industry-standard operations, professionals can achieve optimal stock removal, smooth surface finishes, and superior machining outcomes across various CNC mill types.

HOLE MAKING TOOLPATHS – In this course, you will learn about all the Hole Making Toolpaths in Mastercam including: Drill (tap and Ream), Chamfer Drill, Advanced Drill, Tread Mill, Helix Bore, Slot Mill, Counter Sink and Change at Point.

2D MILL TOOLPATHS – In this course, you will learn about the 2D toolpaths in Mastercam Mill. These toolpaths are also used for Router, Lathe with Mill, and Mill-Turn. A clear understanding of these toolpaths is essential for Mastercam professionals.

2D HST & DYNAMIC TOOLPATHS – In this course, you will learn about the industry standard “Mastercam Dynamic” toolpath type. This is a material removal strategy that can be used on all CNC Mill types, Lathes with live tooling, Mill-Turn and CNC Routers. This should be your “Go-To” for stock removal, prior to finishing.

3D MILL ROUGHING TOOLPATHS – In this course, you will learn about Mastercam’s various 3D roughing strategies for milling. This includes the standard “Mastercam Dynamic” Opti-Roug Toolpath type. This is a material removal strategy that can be used on all CNC Mill types, Lathes with live tooling, Mill-Turn and CNC Routers.

3D MILL FINISHING TOOLPATHS – Here, you will learn about Mastercam’s various 3D HST finishing strategies for milling.

Lathe Operations

Develop your understanding of lathe operations with these comprehensive courses in Mastercam. From programming lathe functions and setting up jobs, to exploring a wide range of toolpath types, these courses provide the knowledge and skills needed to maximize productivity and accuracy.

LATHE INTRODUCTION – In this course, learn how to program Lathe in Mastercam. Machine selection, Lathe coordinate system, Job setup, Stock, Jaws and Lathe Tools are all covered.

LATHE TOOLPATHS – Here, learn about the Lathe common parameters as well as the toolpath types and setting for Face, Rough, Finish, Drill, how to rough bore, finish bore, Contour Roughing, Variable depth roughing, how to set the chip break feature, and Dynamic Roughing.

LATHE PART HANDLING – Learn about Lathe part handling – Stock Flipping, Lathe Tool Inspection, Pickoff, Pull and Cut Off (Part Off). This course is designed for Standard Mastercam Lathe post Processors.

LATHE WITH MILL: CROSS OPERATIONS – In this course, you will learn how to create cross operations using Lathe with Mill.

LATHE WITH MILL: FACE OPERATIONS – Here, you will learn how to create face milling operations using Lathe with Mill. This also includes an example of radial cross milling.

Explore our comprehensive library of courses in Mastercam and achieve the full potential of your design and manufacturing capabilities. From mastering the user interface and toolpath operations to delving into milling and lathe techniques, our courses empower you to work efficiently, reduce errors, and achieve superior results. Take the first step in your learning journey and dive into our diverse course offerings today!

Powering the energy transition: Seequent introduces Leapfrog Energy

31 May 2023

Seequent, The Bentley Subsurface Company, introduces Leapfrog Energy, expanding the company's offering to the energy industry to help solve the challenges of the rapidly evolving transition.

Leapfrog Energy brings together Seequent's world-leading geological modelling solution and geostatistical capability, along with the company's experience in geothermal, mining, civil engineering and environment, into a targeted industry solution.

Leapfrog Energy enables rapid understanding of subsurface properties, from even the sparsest amount of data, to help identify energy resources, assess ground conditions for offshore wind projects, and find locations for carbon capture, utilisation, and storage.

Jeremy O'Brien, Energy Segment Director, Seequent, said, "Seequent is a market leader in the geothermal industry with our geological modelling software Leapfrog. It feels like a natural step to extend Leapfrog to the rest of the energy industry, with a number of energy companies already using it for their energy transition initiatives."

Key industry uses for Leapfrog Energy include:

- Continuing to lead subsurface analysis in the **geothermal industry** – Seequent software already supports many of the world's leading geothermal power producers, from well planning to sustainably operating a geothermal asset.
- **Wind energy** – bringing clarity to the complexities of the sea floor and subsurface, helping wind operators understand how and where to site their turbines using industry-leading integrated ground modelling and structural design workflows.
- **Carbon Capture, Utilisation, and Storage (CCUS)** – accelerating basin and reservoir screening to find the best places for capture and storage.
- **Oil and gas** – complementing robust industry-standard workflows for reconnaissance and quality assurance with rapid geological modelling – with transformative reductions in modelling time.

O'Brien added, "Subsurface specialists need flexible and fast tools like Leapfrog Energy to understand subsurface conditions and share their knowledge in a way that resonates with technical and non-technical stakeholders."

Leapfrog Energy can be complemented with other solutions in the Seequent portfolio, including cloud collaboration tool Seequent Central, which allows multidisciplinary teams to track and share data, and our UXO solution for marine surveys. Seequent's PLAXIS, for geotechnical analysis, and geophysics solution Oasis Montaj have been used in exploration by the energy majors for more than 30 years.

Graham Grant, Chief Executive Officer, Seequent, said, "Seequent's comprehensive portfolio of subsurface solutions helps industries understand the subsurface to help them make clear,

confident decisions, reach outcomes quickly, reduce cost and risk, and accelerate their innovation. The energy industry is in the midst of one of the largest industrial transitions in modern history. We understand this transition is complex, and that all parts of the energy industry have a key role to play. Seequent is committed to continue supporting the industry as it navigates the challenges and opportunities ahead.”

Rockwell Automation Allows for Seamless Design in the Cloud with Digital Engineering Software, FactoryTalk Twin Studio

30 May 2023

FactoryTalk Twin Studio is an end-to-end automation design solution where users can design, program, simulate, emulate, and virtually commission in one cloud environment, making it easier than ever to collaborate on a common model and refine designs. On-demand digital design software enables a simpler, more efficient way to work from any web browser with software that is always up to date and flexibly scales users and compute capacity to meet project workload demands. The result is better designs that are developed quicker.

Be more productive with cloud digital engineering:

- Deliver projects faster: Collaborate on projects from anywhere to improve designs and develop projects faster than ever before.
- Amplify value: Build, test and commission your machines virtually to confirm that they meet your needs before committing to a design.
- Save time and money: Remotely deploy updates and troubleshoot problems from anywhere using your web browser.
- Work Better Together: Enable your workforce with the tools that they need and quickly scale your teams as your needs grow.

FactoryTalk Twin Studio is one of the five core solutions in FactoryTalk® Design Hub™. Industrial organizations can now transform their automation design capabilities with a more simplified, productive way to work powered by the cloud. Teams of all sizes, skillsets and locations can work smarter through enhanced collaboration, improved lifecycle management and on-demand access to cloud-based software all while adhering to the latest security standards and information technology (IT) best practices. The result is increased design productivity, faster time to market and systems that cost less to build and maintain.

Siemens collaborates with SPIL to deliver a 3D verification workflow for fan-out wafer-level packaging

31 May 2023

Siemens Digital Industries Software announced it has collaborated with leading Outsourced Assembly and Test (OSAT) company Siliconware Precision Industries Co., Ltd. (SPIL) to develop and implement a new integrated circuit (IC) package assembly planning and 3D layout vs. schematic (LVS) assembly verification workflow for SPIL’s fan-out family of advanced IC

packaging technologies. SPIL plans to deploy this differentiated capability across its 2.5D and fan-out package family technologies.

To meet ongoing global demand for ICs that deliver more performance and lower power consumption within ever smaller footprints, IC designs increasingly feature sophisticated packaging techniques such as 2.5D and 3D configurations. These techniques combine one or more ICs of different functionality with increased I/O and circuit density, which in turn requires the ability to create and review multiple assemblies and LVS, connectivity, geometry and component spacing scenarios. To help customers overcome challenges associated with deploying these advanced packaging technologies, SPIL selected Siemens' Xpedition™ Substrate Integrator software and Calibre® 3DSTACK software for package planning and 3D package assembly verification LVS for its advanced fanout family of package technologies.

"Our challenge was to develop and deploy a proven advanced packaging assembly planning and verification workflow that included comprehensive 3D LVS," said Dr. Yu Po Wang, vice president of CRD for Siliconware Precision Industries. "Siemens are a recognized leader in this space with a robust and proven workflow that we will use in production to validate our fan-out family of technologies."

SPIL's fan-out packaging family offers additional space for routing a higher number of I/O on top of the semiconductor's area and extending the package size with a fan-out process, which cannot be achieved with conventional advanced packaging technologies.

"Siemens is pleased to collaborate with SPIL to define and deliver the workflow and technologies needed for their advanced packaging technologies," said AJ Incorvaia, senior vice president of Electronic Board Systems at Siemens Digital Industries Software. "As SPIL's customers continue to develop higher complexity designs, SPIL and Siemens stand ready to deliver the advanced workflows needed to bring these increasingly sophisticated designs to market."

Synopsys and Arm Strengthen Collaboration for Faster Bring-Up of Next-Generation Mobile SoC Designs on the Most Advanced Nodes

28 May 2023

Tackling extremely complex mobile chip designs on advanced nodes down to 2nm, Synopsys, Inc. has strengthened its AI-enhanced design collaboration with Arm as the company announces Arm® Total Compute Solutions 2023 (TCS23) platform at Computex. Comprehensive EDA and IP solutions optimized for the highest levels of performance and power for Arm's latest compute platform includes the Synopsys.ai full-stack AI-driven EDA suite, Synopsys Interface and Security IP and Synopsys Silicon Lifecycle Management PVT IP. These advancements build on decades of collaboration between the two companies to accelerate customers' delivery of high-performance, efficient Arm-based SoCs for high-end smartphones and virtual/augmented-reality applications.

"The opportunity to unlock new magic on advanced mobile devices while constantly pushing performance and power-efficiency means design challenges become exponentially harder,"

said Shankar Krishnamoorthy, GM of Synopsys EDA Group. "Collaborating with Arm to optimize our EDA and IP solutions enables mutual customers to tackle some of the toughest multi-die system integration challenges from design, IP integration and verification to software development. The addition of the Synopsys.ai EDA suite starts a new phase, where cooperative keystone companies, like Synopsys and Arm, align expertise to help mutual customers turbo-charge the delivery of their Arm-based SoC designs."

"The new TCS23 platform delivers a suite of segment-specific technology, designed with the system in mind, so that our customers can tap into the compute performance required for the next generation of visual computing experiences," said Chris Bergey, senior vice president and general manager, Client Line of Business, Arm. "Through our collaboration with Synopsys, and its full-stack AI-driven EDA suite and silicon-proven IP solutions, customers will now be able to push performance further than ever before and maximize the benefits of the most advanced nodes."

Enabling Higher Quality and Faster Turnaround Times

Synopsys addresses the complex, system-level challenges of hierarchical implementation for high-performance cores without performance, power and runtime compromises through advanced differentiated features such as multi-source clock tree synthesis, intelligent budgeting, timing driven pin assignment, seamless constraints push down and transparent hierarchy optimization.

The Synopsys system-level solutions for TCS23 include:

- Synopsys.ai full-stack AI-driven EDA suite, which taps into the power of AI from system architecture through manufacturing to optimize power, performance and area (PPA) and enhance time to market.
- Synopsys Verification Family, which accelerates architecture exploration, software development and verification throughput for Arm SoCs containing Arm Cortex®-X4, Cortex-A720 and Cortex-A520 CPUs and Immortalis™-G720 and Mali™-G720 GPUs. Early adopters of TCS23 are using Synopsys virtual prototypes with Arm Fast Models, Synopsys hardware-assisted verification and verification IP for the latest Arm® AMBA interconnect to deliver SoCs to market faster.
- Synopsys Interface and Security IP for PCI Express® 6.0 with Integrity and Data Encryption (IDE), CXL 3.0 with IDE, DDR5 with Inline Memory Encryption (IME) and UCIe, all of which are optimized for performance with Arm-specific features and for pre-silicon interoperability with Arm Cores to minimize risk and accelerate time to market.
- Synopsys Silicon Lifecycle Management Family PVT monitor IP, which can be integrated into Arm cores to monitor chip health from development to the field to measure and optimize performance.

Availability

Synopsys Fusion QuickStart Implementation Kits (QIKs) are tuned to extract maximum entitlement from the latest 5, 4 and 3nm process technologies. They provide the most efficient

path to realizing optimally scaled compute architectures for the most demanding end-user applications.

Synopsys QIKs include implementation scripts and reference guides that enable early adopters of the newest Armv9.2 cores to accelerate time to market and achieve their demanding performance-per-Watt targets. These QIKs are available today by request through the Arm support hub or from Synopsys SolvNet.

Synopsys also incorporates the latest Arm Fast Models for virtual prototypes and delivers verification IP for the latest Arm AMBA interconnect, emulation and prototyping hardware to accelerate hardware-software bring-up and power and performance validation, resulting in shorter time to market.

Synopsys IP for PCI Express 6.0 with IDE, CXL 3.0 with IDE, DDR5 with IME and UCIe are available now.

Tango launches integration with Crestron's new Desk Touch desk scheduling hardware

25 May 2023

Tango, a leading provider of integrated workplace management system (IWMS) software, announced an expansion to their strategic partnership with workplace technology leader Crestron Electronics.

Crestron launched Desk Touch, an innovative desk scheduling hardware solution with an elegant touch interface, during their Livestream event hosted from Madrid, Spain. Tango's desk booking and conference room scheduling offering, Tango Reserve, seamlessly integrates with Desk Touch, creating an intuitive desk scheduling solution that encourages collaboration, increases desk utilization, and provides enhanced workplace analytics. Crestron is also launching Desk Q for QR-code-based reservations, which Tango will integrate with later in 2023.

"We have been seeing high demand for digital signage products to make desk booking and availability more tangible and visible to the workforce," explained Pranav Tyagi, Tango's President and CEO. "As a global electronics leader, Crestron looked to partner with an enterprise-level reservation and occupancy management solution, thereby enabling them to bring their desk scheduling hardware to market for the public and private sectors. Working together on an integrated launch of this desk scheduling portfolio has been a natural extension of our existing strategic partnership."

"As a leader in the flexible workplace, Crestron continues to innovate and find new ways to support all workers and spaces," said Bob Bovolocco, Director, Technology Partner Programs at Crestron Electronics. "Tango has been an instrumental partner in supporting our scheduling portfolio, historically with our room scheduling solutions, and now with our new desk scheduling portfolio. These technologies create a unified workplace solution that enables the booking of all spaces and partnering with Tango brings another innovative layer to drive a more connected workplace for every organization."

Desk Touch and Desk Q with Tango Reserve integration will be showcased at Crestron's booth at InfoComm in Orlando, June 14 – 16.

TECHNIA releases SAP Integration Solution for Dassault Systèmes' 3DEXPERIENCE Platform on the Cloud

30 May 2023

TECHNIA, the Virtual Twin Experts, announced that they have launched the SAP Connector to Dassault Systèmes' 3DEXPERIENCE platform on the cloud. This connector is built on the TECHNIA Integration Framework cloud product (TIF Cloud), an iPaaS (Integration-Platform-as-a-Service) solution.

TIF iPaaS is a cloud-based integration system that handles bidirectional connections between enterprise systems such as PLM, ERP, MES, and CRM. This new, official licensing specifically covers the pre-configured integration solution for the 3DEXPERIENCE platform on the cloud and SAP. TIF SAP Connector is hosted on TECHNIA Cloud and available worldwide.

The SAP Connector contains the most common integration use cases between PLM and ERP and has the possibility to extend specific use cases by adding configurations on top to fit any customer's needs.

TECHNIA Integration Framework solutions are built on modern technologies, standardized integration principles, and best practices to ensure efficient and manageable integrations between enterprise systems.

"This is a milestone for TECHNIA Software & Global Services as we take another step toward becoming the world's #1 systems integrator. We can now provide our customers with the best 3DEXPERIENCE and SAP integration tool on the market, with the assurance that it is authorized by Dassault Systèmes."

Magnus Falkman

Chief Executive Officer | TECHNIA

"We are thrilled to introduce our new Cloud software that enables seamless integration between 3DEXPERIENCE Cloud and SAP. By addressing the new challenge of integrating these two powerful platforms, we are empowering organizations to unlock new levels of efficiency, collaboration, and innovation. We are confident that this solution will deliver significant value to our customers."

Philippe Rinero

Product Manager | TECHNIA