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CIMdata News

Model-Based Structures: Enabling Digitalization's Future - engineering.com

21 October 2022

In this edition of Peter Bilello's series in engineering.com he discusses the use of Model-Based Structures, an essential element of digital transformation. To read how these data constructs fit into digital transformation read the full article here: <https://www.engineering.com/story/model-based-structures-enabling-digitalizations-future>

Acquisitions

Addnode Group acquirers JBL's Dassault Systemès Business

24 October 2022

Addnode Group announces that it has acquired the Dassault Systemès Business from JBL Technologies in USA (JBL) with expected annual net sales of SEK 15 million.

The JBL team will be merging with Addnode Group's subsidiary TECHNIA's North America Simulation Division. JBL will be a welcome addition in both resources and industry expertise into the TECHNIA North America team and the Global Simulation Division. The new consultants are particularly knowledgeable within oil and gas, infrastructure and renewable energy. With the acquisition, TECHNIA improves its capacity to both develop existing client relationships, as well as strengthening its position as a Dassault Systemès partner in the US market.

"The acquisition of JBL demonstrates TECHNIA's commitment to grow our presence in North America. It bolsters our simulation's offering as a global provider of premium simulation software, services, training, and support while expanding the local presence for new and existing customers," says Magnus Falkman, CEO of TECHNIA and Division President Product Lifecycle Management, Addnode Group.

AspenTech Strengthens Ability to Help Customers Realize Maximum Business Value from Industrial Data with Acquisition of inmation Software

24 October 2022

Aspen Technology, Inc. announced that it has acquired inmation Software GmbH, a market leader in industrial real-time information management. With this acquisition, AspenTech is uniquely positioned to help capital-intensive organizations integrate, manage, and contextualize their industrial data in order to make critical business decisions that bring customers closer to meeting their profitability and sustainability goals.

Scalable software from inmation adapts to the needs of its customers by connecting an organization's industrial data from various data sources, from plant-level historians to enterprise systems, to create a real-time industrial data infrastructure. Combined with AspenTech's existing portfolio, including plant-level solutions and AspenTech's connectivity and artificial intelligence (AI) capabilities, the integration of inmation's technology creates an unrivaled enterprise-wide data infrastructure. Equipped with secure access and connectivity, customers can bring order to their data and gain true business insight from their industrial data safely and cost-effectively.

inmation will become the cornerstone of AspenTech's industrial data and connectivity business unit,

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AIoT. The combined offering furthers the company's position as an industrial software powerhouse driving digital transformation and supporting our customers' sustainability and profitability goals.

"Capital-intensive industries are critically in need of a scalable solution to harness their huge amounts of industrial data to become efficient and sustainable in every area of their operations," said Nicole Rennalls, VP and General Manager, AspenTech's industrial data business unit,

AIoT. "With connected, actionable industrial data, information and AspenTech customers can pursue digitalization journeys that help them address the dual challenge of meeting the resource demands of a growing population with an increasing standard of living, in a sustainable way."

"IT/OT collaboration is top of mind for our customers' digital transformation strategies," said Timo Klingenmeier, founder, information. "By joining AspenTech, we can deliver the technology, scale, and resources to help capital-intensive industries bring both functions together to elevate OT data to the enterprise-level and unlock meaningful insights across the organization. Having a solid foundation that collects, organizes, contextualizes, and securely transports massive amounts of data will be a significant competitive differentiator for customers."

Founded in 2013, information is headquartered in Cologne, Germany. As one of the world's leading technology companies in the field of industrial real-time information management, information's global customer base is comprised of leading companies operating in different industry sectors including pharmaceuticals, chemical, manufacturing, oil & gas, and others.

Atos Statement

24 October 2022

Following rumors in the French press, Atos confirms that, since the presentation of its separation plan at the CMD on June 14, the company has been approached by several players interested in a potential acquisition of its Tech Foundations business. The possibility that such a mark of interest results in a transaction is very uncertain.

Atos recalls that the Company and its Board of Directors examine all received expressions of interest in light of the company's corporate interest and in particular the creation of value for its shareholders, employees, and customers.

Today, Atos and its teams are fully mobilized on the advancement of the separation plan communicated to the market on June 14, according to the planned schedule, which is the Group's priority.

Stratasys Acquires Software Company Riven to Streamline Quality Assurance for Production-Scale Additive Manufacturing

25 October 2022

Stratasys Ltd., a leader in polymer 3D printing solutions, announced the acquisition of quality assurance software company Riven. The Berkeley, Calif.,-based start-up has been a Stratasys connectivity software partner and its cloud-based software solution will now be fully integrated into Stratasys' GrabCAD® Additive Manufacturing Platform, benefiting customers using any Stratasys 3D printer running GrabCAD Print software.

"We believe that by identifying state of the art technology platforms and cultivating them under the Stratasys umbrella, companies like Riven can add incremental growth engines to our platform. By integrating Riven's offerings into our GrabCAD software platform, we will enable more manufacturing customers to adopt Stratasys solutions for end-use parts production," said Stratasys Vice President of

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Global Software Shaul Samara. “This important functionality will help ensure production-scale parts are 3D printed accurately and can be inspected quickly within a closed-loop additive manufacturing process. The acquisition of Riven is another example of how we are working to ensure we are providing our customers with complete solutions across the entire additive manufacturing digital thread.”

Riven’s cloud-based software helps customers quickly inspect, diagnose, and automatically correct deviations between CAD files and actual printed parts, resulting in more accurate parts at a lower overall cost. A new version in testing uses artificial intelligence to pre-adjust the models automatically. Parts inspection in particular can be a significant bottleneck in the production process, in many cases creating delays of weeks or months. By integrating Riven’s software into a closed-loop 3D printing process, Stratasys will be able to help its customers scale their shipments of 3D printed end-use parts while reducing waste through fewer iterations to improve sustainability.

“It’s been clear to us for some time how much quality is in Stratasys’ DNA, so we knew joining them would be a great fit,” said Riven founder James Page, who will now be a software vice president at Stratasys. “Our combined mission is to ensure that users’ 3D printed reality matches the CAD file each time. By enabling even higher accuracy, we can open new markets and applications.”

Stratasys’ GrabCAD AM Platform enables two-way connectivity between 3D printers, additive manufacturing and enterprise applications, and broader Industry 4.0 infrastructure. The open and enterprise-ready platform brings together GrabCAD applications and functionality from GrabCAD Software Partners. This allows manufacturers to manage their production-scale additive manufacturing operations across the entire digital thread, from design through production.

The acquisition, which closed in October 2022, included all intellectual property associated with Warp Adaptive Modeling (WAM) and Predictive WAM (PWAM). Members of the Riven team will be integrated into the Stratasys Software business unit.

Company News

Altair Names ACFYD Análisis Data Analytics Channel Partner for Spain

26 October 2022

Altair, a global leader in computational science and artificial intelligence (AI), announced that ACFYD Análisis has joined Altair’s growing channel partner network. ACFYD, which has offices in Madrid, Spain, will offer all of Altair’s data analytics solutions to its customers in Spain, particularly those in the retail, consumer, banking, and industrial sectors and offers expertise, consulting, and training focused on data.

“We are very pleased to add ACFYD to our channel partner community,” said Stefano Deiana, vice president, Altair France and Spain. “The team’s knowledge and experience with Altair’s data analytics portfolio will further Altair’s efforts to help companies conduct repeatable, successful, and efficient data analytics projects to drive greater business insights.”

“ACFYD specializes in conducting mass audits of contracts and expenses to help our customers uncover hidden benefits, achieve extraordinary income, and exceed performance expectations,” said David Hernández, chief executive officer, ACFYD. “We aim to streamline our clients’ operations through the combination of our services with world-class technology like Altair’s data analytics solutions. Together with a global leader like Altair, we are proud to offer our customers the most effective software solutions and support.”

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Altair works with a global network of channel and technology partners.

Docaposte, Dassault Systèmes, Bouygues Telecom and Banque des Territoires sign alliance to offer the reference solution for trusted cloud services

26 October 2022

Docaposte (digital subsidiary of La Poste group, and project leader), Dassault Systèmes, Bouygues Telecom and Banque des Territoires have signed an alliance uniting their expertise and strengths at the core of a French industrial consortium in order to create NUMSPOT, a company dedicated to the development of a full offering of sovereign and trusted cloud services in Europe.

NUMSPOT primarily targets French economic and institutional organizations that currently lack solutions meeting their needs : the financial sector (banks, insurance), the health sector (hospitals), and the public sector (state and local authorities, operators).

Available in 2023 in France, NUMSPOT is targeting commercial development in the European marketplace with the ambition to become the benchmark in trusted cloud offerings.

NUMSPOT will provide a technologically and commercially competitive, reliable and secure solution that responds to needs for regulated hosting in accordance with SecNumCloud (certification from ANSSI, the French cyber-security agency), Health Data Hosting and the future European cybersecurity schema EUCS standards. For this, NUMSPOT will rely on the synergy of the technological expertise and investment capabilities of the four French consortium partners.

The company will offer services having the highest standards in the marketplace in terms of performance, scalability, security, cost and environmental responsibility. It will rely on the sovereign cloud infrastructure of OUTSCALE from Dassault Systèmes, which benefits from SecNumCloud certification and guarantees the highest level of industrial reliability and security with data operations exclusively in France.

Beyond infrastructure services (IaaS), the aim of NUMSPOT is to offer a sovereign technological platform (PaaS) providing software solutions and services (SaaS), based on the trusted solutions of Docaposte in particular, which meet core business needs.

In addition to responding to three main challenges of cloud computing (data sovereignty, digital architecture security and data portability), NUMSPOT will represent a European pillar for building cloud standards by offering an open and sustainable approach guaranteeing customers long-term solution maintenance, balanced economic conditions and the reversibility of their commitment.

Lastly, NUMSPOT will develop a European ecosystem of reference, positioned at the highest global level, that includes software companies, digital service companies and startups. NUMSPOT will work jointly with research laboratories, notably Inria, to accelerate French and European technological innovation.

Olivier Vallet, CEO, Docaposte :

“Docaposte is leading this ambitious trusted cloud project based on the complementarity of four major French players. Docaposte will help drive the success of NUMSPOT through its precise understanding of the needs of the public and health sectors and its ability to support the transformation of organizations as well as its recognized expertise in trusted digital services.”

Bernard Charlès, Vice Chairman and CEO, Dassault Systèmes:

“We are just at the beginning of the experiential transformation of society. In this context, the NUMSPOT alliance creates a decisive coupling between public and industrial organizations. It opens a

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new leadership that will benefit the transformation of local authorities, hospitals and administrations. This project responds to strong marketplace and citizen expectations. It's made possible by our extensive technological expertise, thanks to the proven technological assets of OUTSCALE infrastructure and the 3DEXPERIENCE platform from Dassault Systèmes over the last 10 years. In a new geopolitical context, this alliance will bring together a sovereign ecosystem having the ambition to become a digital pillar for citizens in Europe."

Benoit Torloting, Managing Director, Bouygues Telecom :

"Bouygues Telecom has reached a strategic milestone with NUMSPOT' It's the recognition of our large expertise in communication networks, and this announcement supports our strategy to become the telecom operator of reference that helps public and private organizations in their digital transformation. With NUMSPOT, our ambition is to serve the needs of public and health sectors by offering them a trusted cloud solution that meets their expectations."

Olivier Sichel, Director, Banque des Territoires :

"Collaboration between strong industrial and financial partners enables us to build the sovereign cloud of tomorrow. Banque des Territoires is convinced of the need to address this crucial challenge to accelerate the digital transformation of territories, and wanted to take part in this ambitious project that makes sovereignty and trust possible."

¹ The transaction is subject to the prior approval of the appropriate competition regulatory authorities if needed, as well as employee representatives.

Infor Picks Singaporean Terry Smagh to Helm Asia Pacific and Japan

26 October 2022

Infor[®], the industry cloud company, announced the appointment of Terry Smagh as senior vice president and general manager for Asia Pacific and Japan. Based in Singapore, Smagh will be responsible for growing Infor's business and driving customer success across key markets in the region, including Australia and New Zealand, Greater China, Japan, India, Southeast Asia and Korea.

"Terry is a seasoned expert in the Asia Pacific enterprise software market and comes armed with over 20 years of international experience in driving exponential revenue and market growth," said Wolfgang Kobek, executive vice president and general manager for international business at Infor. "We are thrilled to have him onboard to lead our fast-growing APJ region, which is rife with opportunity. As Asia's businesses seek to scale their investments in technology, they are looking for software that will help drive greater agility, efficiencies, resilience, and innovation across their operations, at speed and scale. With Terry's passion for people and unyielding devotion to driving exceptional customer-centric outcomes, I am confident he will lead our team and customers into the next stage of growth, and further strengthen Infor's roots in the APJ region."

Smagh brings deep industry expertise in SaaS and data analytics to his role at Infor, and has a proven track record in helping customers transform and grow their businesses across the region. He joins Infor following senior leadership roles at BlackLine, IBM, and Qlik, where he played an instrumental role in driving revenue growth opportunities and profitability.

A Singaporean at heart, Smagh also has an extensive understanding of local and regional market nuances and growth opportunities, having worked in regional roles for most of his career.

With a background in entrepreneurship, Smagh is passionate about scaling businesses and grooming leaders, and a huge believer of "get the right team, and the rest will follow." "We are in a people business — empathy, humility and respect are the attributes I look for in a leader," Smagh said. "It's

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about developing and motivating a high-performing team that's collaborative, thrives under pressure and enjoys coming to work every day. I believe we can foster success and commitment through culture and constant reinforcements on holistic customer engagements and experiences. My goal for talent retention and recruitment is simple: we must continue to stay interested and vested in our people, and create a best place to work in the process."

"Businesses have moved past the point of merely navigating economic recovery and uncertainty. They are doubling down and investing aggressively in building the competencies, technologies and skillsets that will truly position them to thrive in a new era of business — and fast. Cloud will continue to play a crucial role in that," said Smagh. "I am honored to be joining the Infor family, and I believe that Infor's unique, purpose-built CloudSuites for industry position us well to deliver on these demands, and to accelerate greater time-to-value for businesses. This is an increasingly crucial competitive differentiator for organizations, and I look forward to working closely with my team to deliver on that crucial difference for our customers."

Smagh will be responsible for spearheading growth for Infor across a broad range of sectors in APJ, including industrial manufacturing, food and beverage, automotive, high tech, distribution and logistics.

Velo3D Appoints Jessie Lockhart as Chief People Officer

25 October 2022

Velo3D, Inc., a leading metal additive manufacturing technology company for mission-critical parts, announced it has appointed Jessie Lockhart as Chief People Officer. Lockhart brings more than 20 years of experience in human resources and people operations to the company. She holds a Ph.D. in global leadership and change from Pepperdine University and most recently oversaw global talent management at Lam Research, a Fortune 300 supplier of semiconductor wafer fabrication equipment.

Velo3D has experienced extensive growth in its workforce over the past year since becoming a publicly listed company, including rapid expansion in Europe and Asia-Pacific. Lockhart will help continue that growth, overseeing all aspects of the company's people operations, including global talent management, leadership and organizational development, talent acquisition, total rewards, engagement, and culture.

"To meet our growth goals as a company, we need strong organizational infrastructure to ensure we can continue to hire and retain top talent around the world and help them grow in their careers as we scale our business," said Benny Buller, Velo3D Founder and CEO. "Jessie brings with her an amazing background of working with high-growth, innovative companies that have successfully undergone periods of rapid expansion. Our team has always placed a high value on our company culture and with Jessie overseeing people operations, and helping bolster our internal best practices, I'm confident we can continue growing without losing the culture we've worked so hard to build."

Prior to her nearly 9-year employment at Lam Research, which included a variety of leadership roles and global responsibilities, Lockhart was director of human resources at CPP, a provider of workforce development solutions. She was also a human resources leader at Novellus Systems, a semiconductor equipment manufacturer that was acquired by Lam Research in 2011.

"Velo3D is at a big inflection point and I believe there is endless potential for the company due to its innovative technology, growth across new industries, and extensive adoption with some of the most innovative companies in the world," said Lockhart. "I have already met with many Velo3D employees across various levels and their excitement and optimism is felt across the entire company. I am excited to be part of the team and work with every employee around the world to ensure their unique needs are met, we all stay true to our company values, and succeed as an organization."

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In addition to her Doctor of Philosophy, Global Leadership and Change degree from Pepperdine University Graduate School of Education and Psychology, Lockhart also holds a Master of Business Administration and Bachelor of Arts in Communications from San Jose State University.

Event News

CGS, Whole Foods Market and Inkling to Offer Insights on Reducing Costs and Driving Operational Efficiency at Inkling Illuminate 2022

21 October 2022

CGS, a global provider of business applications, enterprise learning and outsourcing services, announced its participation as a panelist and sponsor of the upcoming Inkling Illuminate 2022 user conference being held October 23-26, 2022 at Encore at Wynn Las Vegas.

The customer breakout session, “Unifying Whole Foods Daily Operations Data Using New Inkling Technology,” will be held on Monday, October 24, 2022 @ 10 a.m. PT. The session will spotlight how to reduce labor costs and drive better operational efficiency using CGS’s Enterprise Learning services and Inkling.

Panelists include Jason Ferguson, a Whole Foods Product Owner, Margaret Flynn from Inkling and Drew Kenning, project manager at CGS. The session will discuss the use of employee data to bring efficiency to operations, health and safety directives, ensure best practice communication, deliver better customer experiences, and help front-line workers understand what is expected to achieve company goals. Additionally, the panelists will explore transforming data analytics to align with business strategy while evolving and scaling operations for the future.

“Addressing the needs of the distributed, deskless workforce has become increasingly complex. To get ahead of the current changes being driven by external forces and internal challenges is one of the primary drivers behind our participation at Inkling Illuminate 2022,” said Doug Stephen, president of the learning division, CGS. “We look forward to connecting with the Inkling community and providing real world insight from our experiences with Whole Foods Market that can be applied across a variety of industries.”

As the leading Operational Learning platform designed to enable workers to perform their best anywhere, anytime, on any device, the Inkling Digital Learning platform puts knowledge to work on the job with accessible, engaging content that delivers business results. Inkling Illuminate 2022 connects like-minded professionals who have implemented Inkling technology to help drive better training and business results. The comprehensive program includes in-depth training, peer insights, ideas, strategies, and best practices ensuring customer success with Habitat, Knowledge, Library, Learning Pathways, and Inkforms.

Schneider Electric Experts Offer Insight into Industrial Cybersecurity, Smarter Factories & Reaching Net-Zero Goals at PACK EXPO 2022

23 October 2022

Schneider Electric, the global leader in the digital transformation of energy management and automation, will present four expert sessions at [2022 PACK EXPO, October 23-26 in Chicago](#). These sessions will take a deep dive into developing operational sustainability, including the company’s path towards net-zero carbon emissions, building sustainable factories, and navigating cybersecurity in an

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increasingly connected world.

These thought leadership sessions are critically timed to the current state and needs of the Consumer Packaged Goods (CPG) industry. Over the past decade, the CPG space has been struggling to create paths towards greener, smarter, and more efficient factories. To make matters even more challenging, cybersecurity threats are becoming increasingly advanced and more difficult to detect. As Schneider Electric solutions evolve through digitalization, organizations can meet difficult-to-reach goals while becoming safer facilities by taking steps to future-proof their business.

“While the path to a more sustainable future is critical for any business, the Consumer Packaged Goods industry is facing both unique challenges and opportunities as companies explore ways to drive a more efficient, digital and greener future,” said Jon Olson, Senior Vice President, Industrial Automation USA, Schneider Electric. “We are excited to partner with CPG companies as they embrace next-generation technologies to drive greater efficiency, sustainability, resiliency into their operations to benefit their operations and the environment over the long term.”

Schneider Electric experts will be joined by customers and partnerships in sharing their insights in thought leadership sessions during Pack Expo:

[The Path to Green, Smart Factories](#)

Innovation Stage 2 (N4580)

Monday, October 24, 10:00 AM – 10:30 AM CT

Plant operators today are tasked with driving greater operational efficiency through digitalization while achieving ambitious corporate sustainability targets. Thankfully, these outcomes are not mutually exclusive. Join **Mauricio Casares**, Smart Factory Improvement Manager at Schneider Electric, during this session for an opportunity to learn from Schneider Electric’s Smart Factory journey and the step-by-step approach the company took to convert its 60-year-old brownfield site in Lexington, KY into the world’s first [Sustainability Lighthouse Smart Factory](#) as designated by the World Economic Forum.

Low Carbon Muffins with GreenStruxure & Bimbo Bakeries

Innovation Stage 2 (N4580)

Monday, October 24, 12:00 PM – 12:30 PM CT

To support reach its [Net Zero Carbon by 2050](#) ambition, Grupo Bimbo [announced](#) an innovative Energy-as-a-Service (EaaS) partnership between Bimbo Bakeries USA and GreenStruxure, a Schneider Electric joint-venture company. With the agreement, GreenStruxure will design, build, own, operate, and maintain on-site renewable energy microgrids on behalf of Bimbo Bakeries USA across six of its key manufacturing sites in California. Join **Martin Hanna**, Head of Communications at GreenStruxure, where he will explore details of the project and gain inspiration on how you can take advantage of outcome-based, long-term energy service agreements with no upfront capital investment.

[Cybersecurity Best Practices in a Connected IIoT World](#)

Innovation Stage 2 (N4580)

Wednesday, October 26, 10:00 AM – 10:30 AM CT

Interconnectivity drives productivity, but it also increases cybersecurity exposure. Staying cyber secure in an increasingly digital, connected industrial world requires aggressive, proactive approaches with full organizational collaboration. The risks to an operations and brand reputation are rising as threats become more advanced and difficult to detect. As regulations come into play, the path to security becomes even more complicated. Join **Paula Mott**, Cybersecurity Business Consultant at Schneider Electric,

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and **Grant Geyer**, Chief Product Officer at Claroty, who will provide best practices to establish a strong cybersecurity foundation and address your organization's most critical issues:

- What should you do to proactively defend your operation and ensure ongoing vigilance?
- What standards and best practices apply to your business?
- Who is responsible for ensuring cybersecurity at your organization?

TRACE SOFTWARE TAKES PART IN BIM WORLD MUNICH 2022

25 October 2022

Trace Software takes part in the 6th [BIM World MUNICH](#), major trade fair for **construction, real estate and urban development industries**, which will be held in the **International Congress Center München (ICM) from 22 to 23 November 2022**. The team will welcome you on **booth 216**, in the **hall B0**.

BIM World MUNICH is a leading platform for all stakeholders working in the **construction, real estate and urban development industries**. With **thousands of participants and hundreds of expert speakers**, BIM World trade fair has quickly created one of the most important "BIM ecosystems". In 2022, the focus is put on providing a precise insight on the latest digital methods, services and technologies according a well-defined approach: contributing to a sustainable growth of the AEC* industry.

**Architecture, Engineering and Construction*

Where are we?

📍 Hall B0, booth 216

Our software for BIM electrical design

During these two days, Trace Software will be showcasing its **design** and **calculation** software for **electrical installations** in an **Open BIM** process.

elec calc™ BIM

[elec calc™ BIM](#) is a software solution that integrates **electrical calculation** in an **Open BIM process**. Based on the IFC and BCF collaboration formats, this software enables designing an electrical installation with a **digital BIM model**. The different project members can this way collaborate on a common project.

Learn more about our software solutions

elec calc™

[elec calc™](#) is the **design** and **calculation** software for **low and high voltage installations**. This polyvalent and intuitive tool enables drawing **single-line diagrams**, carrying out **electrotechnical calculations** such as short-circuit current or voltage drop and creating **project outputs** as well as **calculation reports**. Current **international and/or national standards** are applied during the whole design process.

archelios™ Suite

[archelios™ Suite](#) helps you design the entirety of a photovoltaic installation project from the feasibility study, bankability, 3D design, to the compliance and calculation notes, right up to the operation and maintenance management, with the **utmost precision**.

archelios™ Suite is composed of [archelios™ PRO](#) and [archelios™ CALC](#).

Financial News

AECOM to announce fourth quarter and full year fiscal 2022 earnings results on November 14th

25 October 2022

AECOM, the world's trusted infrastructure consulting firm, announced that it intends to issue its fourth quarter and full year fiscal 2022 earnings results before the U.S. market opens on November 14, 2022. The Company also intends to hold a conference call and webcast with analysts and investors at noon Eastern Time that morning, during which management will present the Company's financial results and outlook, strategic accomplishments, and market and business trends.

The webcast and a replay will be available online at <https://investors.aecom.com>. The press release and presentation slides will be available on the Company's website the day of the call and will contain additional financial information.

The conference call can be accessed directly by dialing 844-200-6205 (U.S.) or 929-526-1599 (international) and entering passcode 479350.

Altair Announces Date of Third Quarter 2022 Financial Results Conference Call

20 October 2022

[Altair](#), a global leader in computational science and artificial intelligence, will release its financial results for the third quarter ended September 30, 2022, after the market close on Thursday, November 3, 2022. On that day, management will hold a conference call and webcast at 5 p.m. ET to review and discuss the Company's third quarter results and fourth quarter and full year 2022 outlook. A recorded version of this webcast will be available after the call and accessible at <http://investor.altair.com>.

What: Altair's Third Quarter 2022 Financial Results Conference Call

When: Thursday, November 3, 2022

Time: 5 p.m. ET

Webcast: <http://investor.altair.com> (live and replay)

Aspen Technology Announces Financial Results for the First Quarter of Fiscal 2023

26 October 2022

Aspen Technology, Inc. (AspenTech), a global leader in industrial software, announced financial results for its first-quarter fiscal 2023, ended September 30, 2022.

"AspenTech delivered a strong start to fiscal 2023 as demand trends remained positive across geographies and end markets. In addition, we made substantial progress bringing together the OSI and SSE businesses with heritage AspenTech to capitalize on our unique position as one of the world's leading industrial software companies," said Antonio Pietri, President and Chief Executive Officer of AspenTech.

Pietri added, "Now more than ever, customers rely on AspenTech for software that enables their assets to operate more efficiently and sustainably. While we are focused on the evolving economic environment around the world, we remain confident in our ability to deliver on our financial objectives

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for fiscal 2023 and beyond.”

First Quarter and Fiscal Year 2023 Recent Business Highlights

- Annual contract value, which we define as the estimate of the annual value of our portfolio of term license and software maintenance and support, or SMS, contracts, the annual value of SMS agreements purchased with perpetual licenses and the annual value of standalone SMS agreements purchased with certain legacy term license agreements, which have become an immaterial part of our business, was \$810 million at the end of the first quarter of fiscal 2023, which increased 7.7% compared to the first quarter of fiscal 2022.
- Annual spend for heritage AspenTech, which the company defines as the annualized value of all term license and maintenance contracts at the end of the quarter for the businesses other than OSI and SSE, was \$682.3 million at the end of the first quarter of fiscal 2023, which increased 8.3% compared to the first quarter of fiscal 2022 and 1.2% sequentially.

Summary of First Quarter Fiscal Year 2023 Financial Results

As a result of the transaction between AspenTech and Emerson Electric Co., EmerSubCX, the subsidiary Emerson created as part of the transaction, became the surviving entity when the transaction closed on May 16th, 2022. The comparable periods shown in the financial statements below for fiscal year 2022 reflect only the historical results of the OSI and SSE businesses that were contributed to new AspenTech.

AspenTech’s total revenue of \$250.8 million included:

- **License and solutions revenue**, which represents the portion of a term license agreement allocated to the initial license and OSI revenue recognized on a percentage of completion basis, was \$160.2 million in the first quarter of fiscal 2023, compared to \$44.2 million in the first quarter of fiscal 2022.
- **Maintenance revenue**, which represents the portion of customer agreements related to ongoing support and the right to future product enhancements, was \$78.4 million in the first quarter of fiscal 2023, compared to \$24.5 million in the first quarter of fiscal 2022.
- **Services and other revenue** was \$12.2 million in the first quarter of fiscal 2023, compared to \$8.3 million in the first quarter of fiscal 2022.

For the quarter ended September 30, 2022, AspenTech reported loss from operations of \$51.2 million, compared to loss from operations of \$13.9 million in the first quarter of fiscal 2022.

Net loss was \$11.2 million for the quarter ended September 30, 2022, leading to net loss per share of \$0.17 compared to net loss per share of \$0.31 in the same period last fiscal year.

Non-GAAP income from operations was \$92.6 million for the first quarter of fiscal 2023. Non-GAAP net income was \$142.0 million, or \$2.20 per share, for the first quarter of fiscal 2023. These non-GAAP results add back the impact of stock-based compensation expense, amortization of intangibles, fees related to acquisitions and integration planning and unrealized loss on derivatives associated with acquisitions. A reconciliation of GAAP to non-GAAP results is presented in the financial tables included in this press release.

AspenTech had cash and cash equivalents of \$382.5 million and total borrowings of \$270.0 million at September 30, 2022.

During the first quarter, AspenTech generated \$5.1 million in cash flow from operations and generated \$10.7 million in free cash flow. Free cash flow is calculated as net cash provided by operating activities adjusted for the net impact of: purchases of property, equipment and leasehold

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improvements; payments for capitalized computer software development costs; and other nonrecurring items, such as payments related to acquisitions and integration planning.

Business Outlook

Based on information as of today, October 26, 2022, AspenTech is issuing the following guidance for fiscal year 2023. Please note this guidance does not include any contribution from the pending acquisition of Micromine, which is currently expected to close in the second fiscal quarter of 2023, subject to regulatory approvals.

- Annual Contract Value (“ACV”) growth of 10.5-13.5% year-over-year. The company defines ACV as the estimate of the annual value of our portfolio of term license and software maintenance and support (SMS) agreements
- Free cash flow of \$347 to \$362 million
- Total bookings of \$1.07 to \$1.17 billion
- Total revenue of \$1.14 to \$1.20 billion
- GAAP total expense of \$1.197 to \$1.207 billion
- Non-GAAP total expense of \$637 to \$647 million
- GAAP operating loss of \$57 to \$5 million
- Non-GAAP operating income of \$503 to \$555 million
- GAAP net loss of \$32.5 to \$22.5 million
- Non-GAAP net income of \$446 to \$456 million
- GAAP net loss per share of \$0.49 to \$0.34
- Non-GAAP net income per share of \$6.76 to \$6.91

These statements are forward-looking and actual results may differ materially. Refer to the Forward-Looking Statements safe harbor below for information on the factors that could cause AspenTech’s actual results to differ materially from these forward-looking statements.

Conference Call and Webcast

AspenTech will host a conference call and webcast presentation on October 26, 2022 at 4:30 p.m. (Eastern Time) to discuss the company's financial results, business outlook, and related corporate and financial matters. A live webcast of the call will be available on the Investor Relations section of AspenTech’s website, <http://ir.aspentech.com/>, and clicking on the “webcast” link. To access the call by phone, please go to this link ([registration link](#)) and you will be provided with dial in details. To avoid delays, we encourage participants to dial into the conference call fifteen minutes ahead of the scheduled start time. A replay of the webcast will also be available for a limited time at <http://ir.aspentech.com/>.

Atos: Third quarter of 2022: transformation in motion

26 October 2022

Atos, a global leader in digital transformation, high-performance computing and information technology infrastructure, announces its revenue for the third quarter of 2022.

Atos’ leadership team, Nouridine Bihmane, Diane Galbe and Philippe Oliva, declared: *“In Q3, we remained fully focused on continuously improving the business performance: revenue growth at constant currency turned positive, with an earlier-than-anticipated stabilization at Tech Foundations, while Evidian continued to grow despite fluctuations in the HPC business, and is set to accelerate in Q4.*

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Based on this robust performance, we confirm our full-year objectives, with revenue growth now expected in the upper half of the previously indicated range. In the meantime, we achieved important milestones in Q3 towards the envisioned separation. We finalized a €2.7 billion financing providing the means to execute our transformation until separation while ensuring the Group's liquidity. We launched the works councils consultation process and made tangible progress in carve-out preparation workstreams. The separation project is well on track to be completed in H2 2023 as initially planned. Atos is resolutely pursuing its in-depth transformation: the whole organization is mobilized and committed to the successful execution of our strategic plan, which we are convinced will create significant value for all Atos' stakeholders."

<i>In € million</i>	Q3 2022	Q3 2021	Change	Change at constant currency
Evidian Perimeter revenue	1,278	1,191	+7.3%	+2.1%
Tech Foundations perimeter revenue	1,540	1,475	+4.4%	+0.3%
Group revenue	2,818	2,666	+5.7%	+1.1%

Revenue growth at constant currency turning positive in Q3

Group revenue was €2,818 million in Q3 2022, up +5.7% year-on-year. Growth at constant currency turned positive in Q3, at +1.1%, while organic growth stabilized, at -0.1%, showing a strong sequential improvement compared to previous quarters (-1.9% in Q2 and -2.4% in Q1). This positive momentum reflects the continued improvement in operational performance brought by the Group's new organization and management team. Acquisitions contributed +1.2% to the Group's revenue growth. Foreign exchange contributed +4.6%, mainly reflecting the appreciation of the US Dollar against the Euro over the period.

Evidian's revenue was up +2.1% at constant currency in Q3. Digital recorded a solid growth, driven by buoyant trends on digital transformation markets, as well as by the contribution from recent acquisitions. Q3 activity was supported by a good level of fertilization of existing customers. Cybersecurity continued to benefit from market leadership and strong customer demand. Revenue growth was affected by Advanced Computing, with a low level of HPC revenue, expected to ramp up from Q4 onwards based on the very high order entry recorded in Q2.

Tech Foundations' revenue stabilized in Q3, at +0.3% at constant currency (+0.5% excluding UCC). This positive top line momentum is a clear sign of an earlier-than-anticipated improvement of the business line's performance, resulting from renewed management focus under the Group's new organization and strategic project. The core infrastructure business reported a much more contained decline than in 2021, while professional services grew strongly. Digital workplace services and UCC recorded a slight contraction due to persisting supply chain tensions.

Significant progress achieved in separation project

The Group is making significant progress in its separation project and confirms that it is well on track to complete it within the previously announced 12 to 18 months timeline [\[1\]](#).

The Group successfully signed a **new €2.7 billion bank debt financing** on July 29, 2022, ensuring the interim period leading to the envisioned separation is fully financed. The syndication of this new debt package was finalized in a short timeframe and received very strong support from the Group's historical lenders. This unsecured debt package includes a €1.5 billion term loan with very satisfactory tenure and pricing conditions, a €0.9bn revolving credit facility supporting the Group's liquidity, and a €0.3 billion bridge loan to be repaid out of the expected proceeds from the Group's non-core businesses disposal program. Financial covenant was reset to 3.75x net debt to OMDA [\[2\]](#), tested at year-end.

On September 7, 2022, the **information and consultation process of Atos European works council** (SEC), regarding the Group's envisioned separation into two listed entities, was launched in line with the project timetable. In parallel, social dialogue has also started at country level.

All **separation workstreams are mobilized and progressing according to plan**, across four pillars: (i) go-to-market and commercial continuity, (ii) carve-out operations covering tax and legal structuring, strategic agreements and preparation of carve-out financial statements, as well as Day-1 operational readiness, (iii) operating model and support functions set-up and (iv) program coordination.

Atos is convinced that this project is the most value-creating for all its stakeholders. Evidian will emerge as a global digital pure player fully focused on growing markets and combining a unique set of highly synergistic areas of expertise. Tech Foundations' turnaround is already underway and showing encouraging signs of earlier-than-anticipated recovery. Once turned-around, Tech Foundations will take a fresh start as an end-to-end orchestrator of digital infrastructure, leveraging its core operations to deliver solid margins and cash generation.

Moving ahead with disposal program

On June 14, 2022, Atos announced a disposal program of non-core businesses representing €700 million of expected proceeds, as part of the financing of its transformation plan. On the same day, the Group completed the sale of its remaining 2.5% stake in Worldline, for net proceeds of c. €220 million. The remaining €480 million expected proceeds pertain to the disposal of non-core businesses mostly within the Evidian perimeter.

This disposal program is progressing as planned, with several disposal processes currently ongoing, including 2 small-sized transactions already signed, indicating market interest for the businesses selected by Atos as part of its disposal program, as well as the Group's ability to execute swiftly, only four months after the disposal program was set up.

CSR: outstanding external recognition

In September 2022, for the third year in a row, Atos was awarded the **EcoVadis Platinum Award** for its Corporate Social Responsibility performance, with the highest score ever received by the Group, at 84 points out of 100. Atos therefore confirms its position in the top 1% companies assessed by EcoVadis within its sector.

In October 2022, Atos was upgraded to the highest rating available (the **AAA rating**) in the **Morgan Stanley Capital International (MSCI) ESG rating 2022**, ranking it among the top 7% of companies in the "Software and Service" industry with a good performance in Sustainability measured through the Environmental, Social and Governance dimensions. MSCI highlighted Atos' leadership in clean technology initiatives, as well as the Group's strengthened governance. Since the beginning of the year, Atos' Board of directors has welcomed five new members: René Proglío, Astrid Stange, Elizabeth

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Tinkham, Caroline Ruellan and Katrina Hopkins, who collectively bring a wealth of experience in digital, finance, human resources and corporate governance.

Commercial activity

Order entry was € 2.0 billion in Q3 2022, representing a book-to-bill ratio of 71%.

For the **Evidian** perimeter, the book-to-bill ratio was 85%, impacted by fluctuations in the HPC deal flow, following a very high order intake in Q2, as well as a lower number of large application management services contracts.

On the **Tech Foundations** perimeter, the book-to-bill ratio was 58%, while Tech Foundations is in the process of gradually re-building a strong commercial pipeline and enhancing its sales capabilities. However, positive evolutions were noted in Q3, with a significant increase in order entry from new logos, and the benefits from a higher contract selectivity.

Book-to-bill ratio is expected to recover significantly across both perimeters in Q4.

At the end of September 2022, the Group's **full backlog** reached € 21.8 billion, down €0.8 billion compared to the end of June 2022. It represented 1.9 year of revenue.

The **full qualified pipeline** amounted to € 7.1 billion at the end of September 2022, stable compared to the end of June 2022, representing 7.5 months of revenue.

Human resources

Total headcount was 112,344 at the end of September 2022, broadly stable compared to the end of June 2022 (112,180).

In Q3 2022, Atos **hired 8,367 new employees** (gross), of which 64% are located in offshore and nearshore countries.

In September 2022, Atos was listed for the first time by Great Place to Work® as one of 'Europe's Best Workplaces' in the 2022 annual list. It is ranked 21st position in the multinational company category.

2022 full-year objectives confirmed and refined

Based on its robust Q3 performance, Atos refines its revenue growth objective for the full year, while operating margin and free cash flow objectives are unchanged. For the full year, the Group expects:

- Revenue growth at constant currency in the upper half of the -0.5% to +1.5% range;
- Operating margin at the lower end of the 3% to 5% range;
- Free cash flow at the lower end of the €-150 million to €200 million range excluding additional impacts of the envisioned transformation plan. Such additional impacts are estimated around €-250 million, including the cost of financing, in line with information communicated at Atos Capital Markets Day in June.

Marks of interest received

As indicated on September 29, 2022, Atos received, on September 27, an unsolicited letter of intent from Onepoint, in association with private equity firm ICG, related to the potential acquisition of the Evidian perimeter, for an indicative enterprise value of €4.2 billion. Following the thorough examination of this preliminary and non-binding mark of interest, and upon the recommendation of its ad hoc committee, the Board of Directors convened and unanimously concluded that it was not in the interest of the Company and its stakeholders, and therefore decided not to proceed.

In addition, as indicated on October 24, 2022, since the presentation of its separation project at the CMD on June 14, Atos has been approached by several players interested in the Tech Foundations business. The Board of Directors reiterates that it is its duty to examine all marks of interest, and it will do so for

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the Tech Foundations business with regard to the Company's corporate interest and value creation for its stakeholders.

Atos is fully mobilized on the progress of the separation project within the planned timetable, which remains the Group's priority.

Analyst and investor conference call

Atos Management invites analysts and investors to a conference call on the Group 2022 third quarter revenue, on **Wednesday, October 26, 2022, at 08:00 am** (CET – Paris).

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

- via the following link: <https://edge.media-server.com/mmc/p/nh2xut9f>
- by telephone with the dial-in, 10 minutes prior the starting time. Please note that if you want to join the webcast by telephone, **you must register in advance of the conference** using the following link:

<https://register.vevent.com/register/BIcddb3828aa844c69ac846f1b0d03d6f9>

Upon registration, you will be provided with Participant Dial-In Numbers, a Direct Event Passcode and a unique Registrant ID.

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

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

Cadence Reports Third Quarter 2022 Financial Results

24 October 2022

Cadence Design Systems, Inc. announced results for the third quarter of 2022.

Cadence reported third quarter 2022 revenue of \$903 million, compared to revenue of \$751 million for the same period in 2021. On a GAAP basis, Cadence achieved operating margin of 29 percent and recognized net income of \$186 million, or \$0.68 per share on a diluted basis, in the third quarter of 2022, compared to operating margin of 26 percent and net income of \$176 million, or \$0.63 per share on a diluted basis, for the same period in 2021.

Using the non-GAAP measures defined below, operating margin for the third quarter of 2022 was 39 percent and net income was \$290 million, or \$1.06 per share on a diluted basis, compared to operating margin of 36 percent and net income of \$222 million, or \$0.80 per share on a diluted basis, for the same period in 2021.

“I'm pleased with our excellent results for Q3 driven by our technology leadership, strong execution, diversified customer base and resilient business model,” said Anirudh Devgan, president and chief executive officer. “Generational industry trends are driving continued investment by semiconductor and system companies, and our broad, differentiated portfolio positions us extremely well to help our customers accelerate their next generation innovation.”

“We delivered another quarter of strong financial results,” said John Wall, senior vice president and chief financial officer. “I am pleased that we exceeded all key operating metrics for the quarter, allowing us to raise our full year outlook.”

CFO Commentary

Commentary on the third quarter 2022 financial results by John Wall, senior vice president and chief

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financial officer, is available at www.cadence.com/cadence/investor_relations.

Business Outlook

For the fourth quarter of 2022, the company expects total revenue in the range of \$870 million to \$890 million. Fourth quarter GAAP operating margin is expected to be approximately 24 percent and GAAP net income per diluted share is expected to be in the range of \$0.50 to \$0.54. Using the non-GAAP measures defined below, operating margin is expected to be approximately 35 percent and net income per diluted share is expected to be in the range of \$0.89 to \$0.93.

For fiscal year 2022, the company expects total revenue in the range of \$3.532 billion to \$3.552 billion. On a GAAP basis, operating margin for 2022 is expected to be in the range of 29.7 percent to 30.7 percent and GAAP net income per diluted share for 2022 is expected to be in the range of \$2.71 to \$2.75. Using the non-GAAP measures defined below, operating margin for 2022 is expected to be in the range of 39.7 percent to 40.7 percent and net income per diluted share for 2022 is expected to be in the range of \$4.20 to \$4.24.

The company utilizes a long-term projected non-GAAP tax rate, which reflects currently available information, as well as other factors and assumptions. The non-GAAP tax rate could be subject to change for a variety of reasons, including the rapidly evolving global tax environment, significant changes in the company's geographic earnings mix, or other changes to the company's strategy or business operations. The company expects to use this normalized non-GAAP tax rate through fiscal 2025 but will re-evaluate this rate periodically for significant items that may materially affect its projections.

A schedule showing reconciliations of the business outlook from GAAP operating margin, GAAP net income and GAAP diluted net income per share to non-GAAP operating margin, non-GAAP net income and non-GAAP diluted net income per share, respectively, is included in this release.

Audio Webcast Scheduled

Anirudh Devgan, president and chief executive officer, and John Wall, senior vice president and chief financial officer, will host the third quarter 2022 financial results audio webcast today, October 24, 2022, at 2 p.m. (Pacific) / 5 p.m. (Eastern). Attendees are asked to register at the website at least 10 minutes prior to the scheduled webcast. An archive of the webcast will be available starting October 24, 2022 at 5 p.m. (Pacific) and ending December 16, 2022 at 5 p.m. (Pacific). Webcast access is available at www.cadence.com/cadence/investor_relations.

Dassault Systèmes Delivers Solid Third Quarter Driven By Accelerating Recurring Revenue Growth, Reaffirms 2022 Objectives

26 October 2022

Dassault Systèmes announced IFRS unaudited financial results for the third quarter and nine months ended September 30, 2022. The Group's Board of Directors approved these results on October 25, 2022. This press release also includes financial information on a non-IFRS basis and reconciliations with IFRS figures in the Appendix to this communication.

Summary Highlights

(unaudited, all revenue growth rates in constant currencies)

- 3Q22 IFRS diluted EPS increased 20% to €0.16 as reported. Non-IFRS diluted EPS grew 17% to €0.26 as reported, outperforming our objectives.
- 3Q22 total revenue and software revenue increased 8% (IFRS and non-IFRS), driven by strong

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subscription & support revenue growth of 10% (IFRS and non-IFRS). Licenses & other software revenue declined (2)% (IFRS and non-IFRS) due to our focus on increasing the mix of subscription versus license revenue

- 3Q22 3DEXPERIENCE software revenue rose 15% (IFRS and non-IFRS). Cloud software revenue increased 21% (IFRS and non-IFRS).
- FY2022 non-IFRS objectives: reaffirming total revenue growth of 9%-10%, in constant currencies. Raising non-IFRS diluted EPS target to 18%-19% growth to €1.12-€1.14, and on track to be fully deleveraged by year-end.

ESI Group - Third quarter and 9-month revenues 2022

24 October 2022

ESI Group releases its sales for the third quarter of 2022 (period from July 1st to September 30th). The proforma figures consider the July divestitures and the cessation of sales in Russia. Note that there was still €0.6m linked to these divestitures and Russia in Q3, and €2.7m Year to date (9 months).

The first nine months of the year show strong growth in our recurring revenues at +7,3%, as well as a decline in perpetual software licenses and services. Our decisions to divest non-core activities, stop operations in Russia and rigorously manage costs bode well for the execution of our 3-year plan “One ESI 2024 – Focus to Grow”, aiming for considerable improvements in both profit and growth. These figures align with our messages at last month’s Investor Conference and illustrate our business’s strengthened health and resiliency. We are moving in the right direction to ensure the sustainability of our company and to fulfill the expectations of all our stakeholders.

Cristel de Rouvray

Chief Executive Officer of ESI Group

Third-quarter year-over-year and proforma comparison

In Q3 2022, ESI Group generated sales of €21.8m (+0.1%, -1.3% cer) driven by licenses at €17.6m (+4.0%, +2.3% cer). The New Business activity is stable year to date.

9-month, year-over-year and proforma comparison

ESI Group's sales for the first 9-months of 2022 amounted to €104.0m (+4.1%, +2.7% cer) compared to €99.9m for the same period last year, driven by licenses +5.0% at current rate. Recurring revenues increased by 7.3%, at current rate, at 93.2% compared to 91.0% in 2021.

The business grew across all geographies at a current (Americas at 16.0%) and constant rate. The 9-month 2022 sales geographical breakdown by region was as follows: EMEA represents 46.8% (vs 48.3%), Asia represents 37.2% (vs 37.1%) and the Americas represent 16.1% (vs. 14.4%).

All the industries of focus of the Group (Automotive, Aerospace, Energy, and Heavy Industry) grew during the first 9 months of the year. The main driver of ESI Group’s business, Automotive led that growth confirming the positioning of the company.

FARO to Announce Financial Results for the Third Quarter 2022 on November 2, 2022

21 October 2022

[FARO® Technologies, Inc.](#), a global leader in 4D digital reality solutions, announced that after market close on Wednesday, November 2, 2022, it will release its financial results for the third quarter

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ended September 30, 2022. In conjunction with the release, Michael D. Burger, President and Chief Executive Officer, and Allen Muhich, Chief Financial Officer, will host a conference call on Wednesday, November 2, 2022 at 5:00 p.m. ET.

Interested parties can access the conference call by dialing (800) 245-3047 (U.S.) or +1 (203) 518-9708 (International) and using the passcode FARO. A live webcast will be available in the Investor Relations section of FARO's website at: <https://www.faro.com/about-faro/investor-relations/events>

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

Hexagon Interim Report 1 January - 30 September 2022

27 October 2022

Third quarter

- Operating net sales increased by 23 per cent to 1,320.2 MEUR (1,077.2). Net sales including the reduction of acquired deferred revenue amounted to 1,316.6 (1,077.2). Using fixed exchange rates and a comparable group structure (organic growth), net sales increased by 7 per cent
- Adjusted operating earnings (EBIT1) increased by 24 per cent to 386.2 MEUR (310.6)
- Earnings before taxes, excluding adjustments, amounted to 377.3 MEUR (304.3)
- Net earnings, excluding adjustments, amounted to 309.4 MEUR (249.6)
- Earnings per share, excluding adjustments, amounted to 11.4 Euro cent (9.6)
- Operating cash flow increased to 232.6 MEUR (179.6)

This is information that Hexagon AB is obliged to make public pursuant to the EU Market Abuse Regulation. The information was submitted for publication, through the agency of the contact person set out above, at 08:00 CET on 27 October 2022.

IFS continues to deliver strong 2022 financial performance with Q3 Year-to-Date results

27 October 2022

[IFS](#), the global cloud enterprise software company, reported its financial results for Q3 year-to-date (YTD) ending September 30, 2022. IFS posted strong financial performance with Annual Recurring Revenue (ARR) increasing by 38 percent year on year (YOY) and cloud revenue growth of 104 percent Vs. 2021 Q3 YTD. The company attributes its continued success to its dogmatic commitment to delivering a frictionless experience to its customers and a product strategy that meets real market demand, and provides the capabilities business leaders are looking for today to mitigate risk, and tomorrow, to future proof their business.

IFS also posted an increase in Software revenue of 26 percent versus Q3 YTD 2021: the increase in bookings has been driven by a combination of new customer names accounting for 44 percent of new ACV, and existing customers upgrading to IFS Cloud at an increased pace with the IFS Momentum upgrade program.

The company's ability to differentiate by providing embedded innovation such as AI, ML, IoT, automation and advanced analytics across ERP, EAM, and FSM in a composable way means companies

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have a real choice when it comes to their business and digital transformation requirements and the pace at which they execute on this, without having to compromise on functionality; a value proposition that is resonating in the company's target industries.

These differentiators have also earned IFS unrivaled recognition by leading analyst firms such as IDC, Gartner and Forrester over the years. More recently, IFS was listed as #1, per Gartner's "Global EAM Market Share 2021 by Revenue" report, and named the "Leader for the seventh consecutive time in 2022 Gartner Magic Quadrant for Field Service Management. The company was also named a "Leader in IDC MarketScope for Worldwide SaaS and Cloud-Enabled Manufacturing ERP" for 2022.

Additionally, IFS has also been named as a Gartner Peer Insight Customers' Choice for EAM in 2022. These accolades speak to IFS's dedication in supporting its customers to meet their business goals and that IFS Cloud and IFS's Success Services are more relevant than ever.

Darren Roos, CEO of IFS, commented: "Our compelling proposition and genuine commitment to our customers continues to serve us well in driving growth for IFS. We are uniquely positioned in the industry with the best asset and service management capabilities". **Roos continued:** "We are seeing more and more companies recognize that the ability to orchestrate their assets, people and customers on a single, composable platform across EAM, FSM & ERP helps them to deliver amazing moments of service to their customers. This is a real differentiator." **Roos concluded:** "I am grateful to our extended team of partners and employees for staying true to our pledge to add value and continue to innovate and deliver our best to all our customers when it matters most to them."

Constance Minc, CFO of IFS, said: "Our performance over the first nine months of this year has been exceptional. ARR has increased by 38 percent compared to Q3 2021. This demonstrates the health and resilience of our business." **Minc added:** "Over the last few years, we have transformed our revenue model, which is not a simple undertaking but underpinned by IFS Cloud's leading capabilities, our teams have stayed focused on delivering quarter after quarter, and these latest results are evidence of this."

Following the [acquisition of Ultimo](#), now rebranded IFS Ultimo, IFS has further extended its share of the EAM market. IFS Ultimo is a flexible and easily deployed EAM solution that caters for companies looking for a best-of-breed, point solution for asset management.

Also, in Q3, IFS was proud to announce the winners of its [Change for Good Awards 2022](#). Now in their second year, the awards recognize and celebrate sustainability excellence throughout the IFS ecosystem. Winners included Volvo Group, Technogroup, Cape Air, and Tucson Electric Power. The initiative was complemented in October with new ESG functionality launched in the latest release of IFS Cloud.

Financial and Operational Highlights for Q3 2022 YTD (January-September 2022):

- Annual Recurring Revenue SEK 5.0bn, an increase of 38 percent YoY
- Q3 YTD 2022 Software Revenue SEK 4.5bn, an increase of 26 percent versus Q3 YTD 2021
- Q3 YTD 2022 Recurring Revenue SEK4.2bn, an increase of 46 percent versus Q3 YTD 2021
- Q3 YTD 2022 Cloud Revenue increased by 104 percent versus Q3 YTD 2021

*Note: all figures are based in Swedish Krona and reported in constant currency. Cloud includes all of IFS Cloud (including IFS Cloud Remote) and cloud deployment of other products.

In line with WorkWave establishing itself as a standalone business at the end of Q2 2021, the performance reported above excludes WorkWave's contribution to the IFS Group.

Learn more at <https://www.ifs.com/about/financial-information>

Nemetschek SE: Continued Double-Digit Growth in Q3 2022 Driven by High Demand for Subscription and SaaS

27 October 2022

The Nemetschek Group, a globally leading provider of software for digital transformation in the construction and media industries, maintained its double-digit percentage growth in revenue and earnings in the third quarter of 2022. The Group's revenue increased by 19.8% between July and September, while its EBITDA went up by 15.7%. Recurring revenue was again the main driver of growth and reached a new record level as a result of the strong demand for subscription-based and SaaS models in particular.

In order to present the future growth dynamics and the success more transparently in the ongoing transition of the business to subscription and SaaS models and therefore in view of the total recurring revenues, the Nemetschek Group is introducing the key figure ARR (Annual Recurring Revenue). At 29.2%, the ARR growth in Q3 was significantly higher than the overall Group's revenue growth (19.8%), which is a strong indication of the continued high growth potential over the next 12 months.

"The industry's efficiency shortcomings are becoming even more visible in the currently changing environment in the construction and real estate sectors. Digitalization and the usage of intelligent software solutions across a building's life cycle are essential requirements for making construction more efficient, less resource-consuming, and more cost-effective. This success factor for our customers leads to a continued strong demand for our solutions. On top of that, we continue to expand in the Media segment which is just at the start of a long period of growth and high demand," said Yves Padrines, CEO of the Nemetschek Group. "The successful transition to subscriptions and SaaS, which will lead to a strong increase in recurring revenues and make our business even more resilient. The same is true for our strong innovation pipeline. For example, this includes the new Bluebeam Cloud offering and our open cloud-based Digital Twin platform. Following the first nine months of the year, we are very confident that we will achieve our guidance for 2022," continued Yves Padrines.

Group's Key Performance Indicators in Q3 and in the First Nine Months of 2022

- The Group's revenue maintained its double-digit percentage growth, climbing by 19.8% (adjusted for currency effects: 11.8%) to €202.8 million. During the first nine months of 2022, the Group's revenue increased to €598.9 million, equivalent to year-over-year growth of 21.3% (adjusted for currency effects: 15.2%).
- The ARR (annual recurring revenue) increased by 29.2% in Q3 (adjusted for currency effects: 21.7%) to €550.6 million, which was significantly stronger than the total revenue growth. This new indicator is an important measure of the Group's future potential for revenue and cash flow growth.
- Growth drivers were the revenues from subscription-based and SaaS models, as was the case in previous quarters. They grew by 57.5% (adjusted for currency effects: 47.1%) to a new record of €54.4 million in Q3, making an outsize contribution to the increase in recurring revenues. Accordingly, the share of recurring revenues, an important strategic indicator that includes subscription/SaaS as well as revenues from service contracts, grew further in Q3 and accounted for 68% of the Group's revenues (same quarter previous year: 63%). In the first nine months of the year, revenue from subscriptions/SaaS increased to €146.8 million, representing growth of 57.8% compared to the corresponding previous-year period (adjusted for currency effects: 49.5%).

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- The Group's earnings before interest, taxes, depreciation, and amortization (EBITDA) increased by 15.7% to €62.9 million in Q3 which corresponds to an EBITDA margin of 31.0% (previous year: 32.1%). Viewed on a nine-month basis, EBITDA increased to €201.3 million, and the EBITDA margin expanded to 33.6% (previous year: 32.5%).
- The quarterly net income (Group shares) saw a growth of 13.3% to €38.8 million in Q3. Accordingly, the earnings per share increased to €0.34 (previous-year period: €0.30). Net income in the first nine months of the year also rose by a significant 32.1% to €127.9 million, resulting in earnings per share of €1.11.

Strategic Highlights & Diversification

- In addition to the successful subscription and SaaS transition and the increase in the share of recurring revenues, the Group's strategic focus continued to be on the ongoing internationalization of its business. The result can be seen in the over-proportional increase in revenues abroad (Q3: +25%), with North America in particular showing strong growth. The increase in recurring revenues and regional diversification further boost the quality, plannability, and resilience of the Nemetschek business model.
- As part of its ongoing developments in its solution portfolio, Nemetschek has driven initiatives in its innovation focus areas of Cloud and Digital Twins.
 - The US brand Bluebeam has reached a milestone in its corporate history with the rollout of its Bluebeam Cloud. This new product is a suite of mobile and browser-based solutions that makes it possible for teams on construction sites to access important data and work from anywhere, including from their mobile devices. The cloud features also ensure an optimized data availability and therefore further improve the cooperation and work processes of Bluebeam's existing desktop solutions.
 - With the appointment of César Flores Rodríguez as Chief Division Officer (CDO) for Operate & Manage, Nemetschek significantly strengthened its segment. A particular focus of Mr. Rodríguez will be on the go-to-market strategy, growth acceleration, and cross-selling. Additionally, he will also oversee the new business unit for Digital Twins and drive the development of an open, cloud-based Digital Twin platform.

Segment Developments

- In the Design segment, revenue in Q3 2022 grew by 11.4% (adjusted for currency effects: 6.4%) to €96.9 million. After the first nine months of 2022, revenue was €287.4 million (+11.5%, adjusted for currency effects: +7.7%). The strong growth in subscription revenues (constant currency growth: Q3: +50.8%, 9M: +51.5%) is a testament to the success of the segment's strategy of offering subscriptions and licenses in parallel. The EBITDA margin in Q3 2022 was 31.8% and almost at the previous year's level (32.2%). During the first nine months of the year, EBITDA margin improved to 33.0% (previous-year period: 32.6%).
- The Build segment has achieved strong growth again: Its revenue increased by 31.4% (adjusted for currency effects: 17.4%) to €71.0 million in Q3. Customer demand remained high at Bluebeam, which also began its business transition to subscription and cloud products during the third quarter as planned. In the first nine months of the year, the segment's revenue increased by 32.8% (adjusted for currency effects: 22.1%) to €208.8 million. The EBITDA margin in Q3 was 37.9% (same quarter previous year: 39.9%). The margin was 42.1% for the first nine months of the year and therefore almost at the previous year's level (42.6%).

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- Revenue in the Media segment increased by 36.7% (adjusted for currency effects: 27.6%) to €25.8 million in Q3. Growth in the first nine months of the year was even higher with 51.4% (adjusted for currency effects: 43.5%), climbing to €75.8 million. In addition to the strong organic growth, the Media segment also profited from the acquisition of the business operations of Pixologic, Inc. at the end of 2021. The EBITDA margin in Q3 2022 was 41.8% and on the same level as the previous year (42.0%). During the first nine months of 2022, it expanded to 42.8% (previous year: 37.5%).
- In the Manage segment, revenue in Q3 2022 increased by 2.9% (adjusted for currency effects: 3.2%) to €11.3 million. It had 2.9% (adjusted for currency effects: 3.0%) growth when viewed on a nine-month basis. The EBITDA margin in Q3 2022 was 4.8% and down year over year (11.6%).

Full-Year Guidance for 2022 Confirmed

Based on the excellent developments in the first nine months of 2022, the continued long-term growth trends in relevant markets, the ever-increasing proportion of recurring revenues, and the broad diversification of regional and market risks, the Executive Board is very confident that it will achieve the targets for 2022. The Executive Board therefore continues to expect a revenue growth at constant exchange rates in the range of 12% to 14% for the Group. The EBITDA margin is expected to be between 32% and 33%.

The guidance incorporates the currently increasing uncertainty in the global economic environment caused by Russia's invasion of Ukraine and the ongoing Covid-19 pandemic, which is being accompanied by supply shortages in all industries, increased inflation, and rising costs of procurement, financing, and energy. The guidance does not reflect potential negative effects due to any escalation of this war or severe macroeconomic distortions.

Overview of quarterly key figures (Q3-22)

In EUR million	Q3 2022	Q3 2021	Δ in %	Δ in % FX-adj
Revenues	202.8	169.3	+19.8%	+11.8%
- thereof software licenses	56.9	55.7	+2.2%	-6.2%
- thereof recurring revenues	137.7	106.5	+29.2%	+21.0%
- Subscription & SaaS (part of recurring revenue)	54.4	34.5	+57.5%	+47.1%
ARR (Annual recurring revenues)	550.6	426.1	+29.2%	+21.7%
EBITDA	62.9	54.4	+15.7%	
Margin	31.0%	32.1%		
EBIT	48.0	42.0	+14.2%	

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Margin	23.7%	24.8%	
Net income (Group shares)	38.8	34.2	+13.3%
Earnings per share in EUR	0.34	0.30	+13.3%
Net income (Group shares) before amortization of purchase price allocation (PPA)	45.5	39.3	+15.7%
Earnings per share before PPA in EUR	0.39	0.34	+15.7%

Overview of 9-month key figures (9M-22)

In EUR million	9M 2022	9M 2021	Δ in %	Δ in % FX-adj
Revenues	598.9	493.6	+21.3%	+15.2%
- thereof software licenses	187.1	169.0	+10.7%	+4.3%
- thereof recurring revenues	387.2	302.6	+28.0%	+21.6%
- Subscription & SaaS (part of recurring revenue)	146.8	93.0	+57.8%	+49.5%
ARR (Annual recurring revenues)	550.6	426.1	+29.2%	+21.7%
EBITDA	201.3	160.3	+25.6%	
Margin	33.6%	32.5%		
EBIT	157.6	123.0	+28,1%	
Margin	26.3%	24.9%		
Net income (Group shares)	127.9	96.8	+32.1%	
Earnings per share in EUR	1.11	0.84	+32.1%	
Net income (Group shares) before amortization of purchase price allocation (PPA)	147.5	111.8	+32.0%	
Earnings per share before PPA in EUR	1.28	0.97	+32.0%	

*As a result of the strategic reorganization of brands between the Design and Build segments, prior year

figures were
adjusted for comparable reasons.

SAP Announces Third Quarter 2022 Results

25 October 2022

[SAP SE](#) announced its financial results for the third quarter ended September 30, 2022.

SAP Announces Q3 2022 Results

- Cloud momentum continues to accelerate
- Cloud revenue up 38% and up 25% at constant currencies
- Current cloud backlog up 38% and up 26% at constant currencies
- SAP S/4HANA current cloud backlog up 108% and up 90% at constant currencies
- IFRS cloud gross profit up 44%, non-IFRS cloud gross profit up 42% and up 30% at constant currencies
- IFRS operating profit down 1%, non-IFRS operating profit flat and down 8% at constant currencies

“Our cloud solutions are the answer, as customers turn to us to help them future-proof their businesses. This trust in SAP is reflected in our accelerating cloud momentum. With a recurring revenue share of more than 80%, it’s clear that our transformation has reached an important inflection point, paving the way for continued growth in the future.”

Christian Klein, CEO

“We have delivered a strong cloud quarter with accelerating momentum across all key cloud indicators. We’re at an important inflection point in our transformation which we anticipate will lead to accelerating revenue growth and double-digit operating profit growth in 2023.”

Luka Mucic, CFO

[Read the Quarterly Statement](#)

Stratasys Conference Call to Discuss Third Quarter 2022 Financial Results

27 October 2022

[Stratasys Ltd.](#) will release financial results for the third quarter ended September 30, 2022, on Thursday, November 10, 2022. The Company plans to hold the conference call to discuss its third quarter 2022 financial results on Thursday, November 10, 2022, at 8:30 a.m. (ET).

The investor conference call will be available via live webcast on the Stratasys Web site at investors.stratasys.com; or directly at the following web address:

<https://event.choruscall.com/mediaframe/webcast.html?webcastid=Aau6uFJK>

To participate by telephone, the U.S. toll-free number is 877-407-0619 and the international dial-in is +1-412-902-1012. Investors are advised to dial into the call at least ten minutes prior to the call to register. The webcast will be available for 6 months at investors.stratasys.com, or by accessing the above-provided web address.

Implementation Investments

707 INTERNATIONAL CHOOSE OPTITEX TO PROVIDE APPAREL CAD SOLUTIONS

25 October 2022

Optitex®, a global provider of integrated 2D-3D software solutions for mass-market retailers in fashion & apparel, transportation interiors, and furniture industries, today announced its agreement with 707 International. A leading sourcing company for apparel, handbags & accessories, 707 International purchased Optitex PDS (Pattern Design Software) platform and complementary Marker tools to enhance their development to production process.

Known as a hub for building brands, 707 International has experienced a post-Covid rise in demand for sourcing, 707 sought to streamline their garment creation process across apparel and accessories, through digitisation of their workflow, and chose Optitex 2D CAD solution to address this challenge.

Optitex's 2D solutions combine feature-rich, flexible and highly-intuitive patternmaking tools with automatic nesting. The uniquely integrated PDS 2D/3D platform encompasses the potential to easily move to a seamless 2D/3D workflow, and add collaboration tools that work across the entire supply chain.

Amir Lehr, Optitex CEO, said "I'm excited to announce our newest partnership with 707 International. 707 International will make great use of Optitex's fit capabilities to streamline the production chain and, ultimately, reduce returns and secure brand loyalty for their customers."

Sean Coxall, Chairman of 707 International, stated "Speed and accuracy is the name of the game, which is why we've joined forces with Optitex in order to use their 2D software solution, acknowledged as the best in market today, and renowned for its ease of use and comprehensive toolkit for mass-market brands and vendors." A former Li & Fung president, Coxall went on to say "Being able to efficiently pare down our process will result in our clients being able to make their decisions as close to the season as possible, creating a flexibility advantageous for everyone we work alongside."

Altair and Mazagon Dock Shipbuilders Ltd. Announce Collaboration

21 October 2022

Altair, a global leader in computational science and artificial intelligence (AI), signed an agreement with Mazagon Dock Shipbuilders Ltd. (MDL) to collaborate in multiple simulation areas. In this collaboration, MDL will utilize Altair solutions for simulation-driven design and validation, structural fidelity calculations, shock and vibration assessments, hydrodynamic loading, electromagnetic simulation, and more.

The collaboration agreement strengthens the relationship between the two companies, as MDL already utilizes various Altair solutions to develop its robust ship design and engineering offerings. Altair solutions are used extensively in the marine and maritime industries. Altair helps naval architects address complex engineering challenges and mitigate environmental risks associated with seagoing loads including structural, hydro, dynamic, thermal, and fatigue, as well as above surface and underwater weapon threats for the military and homeland security.

"We're thrilled to continue our work with MDL," said Panduranga Rao Chirala, senior vice president of strategic initiatives, Altair India. "Further and more extensive collaboration between Altair and MDL will lead to breakthroughs in marine and defense technology that make vessels safer and more efficient

for their crews.”

Ansys Simulation Helps Accelerate Next-Gen Wireless Communication for Murata Manufacturing

27 October 2022

As part of a new multiyear agreement, Ansys’ industry-leading simulation tools will help Murata Manufacturing Co., Ltd. (Murata) develop electronic components for efficient, next-generation wireless communication and mobility products.

Leveraging Ansys’ expansive simulation portfolio will help Murata improve the efficiency, performance and quality of its electronic components, which include radio frequency (RF) modules, multilayer resin substrates known as MetroCirc, and multilayer ceramic capacitors (MLCC). These components are essential in expanding high-frequency communications to support new-age connectivity demands while upholding sustainability initiatives.

The new multiyear agreement builds on Ansys’ existing relationship with Murata. Ansys HFSS 3D high-frequency electromagnetic simulation software helped enable the development of an efficient direct-current-resonance method for wireless power transfer systems, which have the potential to charge more devices than batteries or wired systems have the capacity to power.

“Murata is leading innovation in wireless connectivity components and working toward a better environment by advancing technology for an Internet of Things (IoT) connected society,” said Norio “Nick” Yoshida, general manager of the computer-aided design (CAD)/computer-aided engineering (CAE) department at Murata. “Through this agreement, Ansys’ simulation solutions will support our design and development initiatives while enabling us to meet our sustainability goals and help expand our global market.”

The team will implement Ansys’ electronics system design tools to develop high-frequency devices and communications modules for the future that feature low-power consumption, high-power performance, and improved reliability. With the ability to model phenomena such as electromagnetic interference (EMI), electromagnetic compatibility (EMC), and radio frequency interference (RFI), Ansys tools will help to solve complex and large-scale electronics engineering challenges.

“With wireless networks based on the technology of 5G and beyond, the demands of connectivity modules and components increase significantly,” said John Lee, vice president and general manager of the electronics, semiconductor, and optics business unit at Ansys. “Ansys’ simulation solutions not only meet today’s rising demands but remain ahead of them, and we are confident that Ansys’ electronics system design tools will equip Murata to develop the wireless connectivity possibilities of tomorrow.”

Boehringer Ingelheim Extends the Use of Medidata Rave for Electronic Data Capture in Clinical Trials

27 October 2022

Medidata, a Dassault Systèmes company, and Boehringer Ingelheim announced a five-year renewal of their collaboration in the wider area of electronic data capture. The new agreement extends the use of Rave EDC for Boehringer Ingelheim’s clinical trials worldwide and includes myMedidata, Medidata’s suite of innovative patient-facing technologies focused on enhancing patient centricity and diversity in decentralized clinical trials (DCTs).

The agreement adds to Boehringer Ingelheim’s focus on engaging patients in a meaningful way by

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providing Medidata's scalable patient-centered capabilities. This includes the myMedidata patient portal, a single-destination web-based platform, which provides access to electronic consent, electronic Clinical Outcome Assessment (eCOA), and myMedidata LIVE video investigator/patient visits.

“As industry leaders, Boehringer Ingelheim and Medidata have a responsibility to innovate for the benefit of patients,” said Anthony Costello, CEO Patient Cloud at Medidata. “Boehringer Ingelheim’s global reach across therapeutic areas is a perfect match for the scalable capabilities of myMedidata and the rest of the Medidata Clinical Cloud platform. Together, we will be able to quickly improve access and diversity of participation in a wide range of clinical programs.”

The Medidata Decentralized Clinical Trials Program – the industry’s only scalable, end-to-end offering – is helping to revolutionize how individuals provide data, how drugs are shipped to patients, and how clinical trial data are managed and monitored. Most importantly, these remote technologies create opportunities to improve patient access, inclusion, and engagement across geographies, and improve patient diversity in clinical trials.

Boehringer Ingelheim has built on Medidata technologies, including Rave EDC (electronic data capture), Coder, TSDV (targeted source data verification), and Safety Gateway. Boehringer Ingelheim is also exploring Medidata AI Intelligent Trials to provide advanced analytics to improve the speed, success, and quality of clinical trials, and is benefitting from Medidata Rave Imaging technology via services contracted with the company’s imaging suppliers.

Medidata is a wholly owned subsidiary of Dassault Systèmes, which with its 3DEXPERIENCE platform is positioned to lead the digital transformation of life sciences in the age of personalized medicine with the first end-to-end scientific and business platform, from research to commercialization.

Dassault Systèmes and Verkor Sign MoU to Advance Next-Generation Low-Carbon Battery Development and Manufacturing

21 October 2022

Dassault Systèmes announced it has signed a Memorandum of Understanding (MoU) with Verkor, a European pioneer in electric vehicle and stationary batteries, to accelerate the development of next-generation lithium-ion batteries and the first gigafactory that will produce them. Together, the two companies aim to nurture a European battery ecosystem that supports Europe’s efforts to achieve climate neutrality by 2050.

Under the MoU, the two companies will establish best practices for virtual, end-to-end development of products and manufacturing processes that improve innovation and efficiency, and mitigate technical risks throughout the product lifecycle. Dassault Systèmes’ 3DEXPERIENCE platform and transformative knowledge and know-how across the high-tech, transportation and mobility, and energy and materials industries will be the catalysts for establishing new methodologies and ways to innovate sustainably in areas such as product, process and flow simulation, supplier collaboration and total quality management.

Verkor can benefit from long-term support from Dassault Systèmes’ technical teams while developing its expertise on the 3DEXPERIENCE platform, to drive unprecedented levels of virtualization when it builds its first gigafactory in Dunkirk, France. Verkor will use the 3DEXPERIENCE platform to build the virtual twins of its batteries and the manufacturing process, including the gigafactory operations.

“Our collaboration with Dassault Systèmes will enable us to address the end-to-end product lifecycle process with the 3DEXPERIENCE platform,” said Christopher Raj, Head of Digital, Verkor.

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Once built, Verkor's first gigafactory will produce low-carbon battery cells designed to support Europe's net-zero goals, as well as create a European battery value chain of players and solutions. As part of this roadmap, Verkor is deploying Dassault Systèmes' "High Performance Battery" and "High-Tech Smart Factory" industry solution experiences based on the 3DEXPERIENCE platform for seamless collaboration, modeling and simulation in one virtual environment.

"Batteries are a cornerstone of a more sustainable Europe. Our 3DEXPERIENCE platform and our battery sector solutions empower battery innovation, from their chemistry definition to the design and engineering of the most advanced gigafactory," said Stéphane Sireau, Vice President, High-Tech Industry, Dassault Systèmes. "As Verkor leads the way in this sector with its ambitious gigafactory project, we can help them leverage virtual twin experiences to accelerate innovation in the development and production of sustainable and high performance battery cells."

Dassault Systèmes Partners with Sanofi to Optimize Tech Transfer and Industrialization at Its Future "EVolute Facilities"

26 October 2022

Dassault Systèmes and Sanofi announced their partnership to optimize "EVolute Facility" production at Sanofi's future state-of-the-art modular manufacturing facilities in France and Singapore. The partnership, which expands their long-standing collaboration in life sciences and healthcare, will leverage virtual twin experiences to enable agile and flexible operations that advance Sanofi's ambition to secure its product portfolio.

Sanofi will use Dassault Systèmes' "Made to Cure for BioPharma" industry solution experience based on the 3DEXPERIENCE platform to design, implement, qualify and operate modular production lines at the two "EVolute Facilities." These will rely on single-use technology and mobile equipment to manufacture up to four products simultaneously and sustainably by selecting the most advanced technologies to reduce their energy consumption. The platform provides a virtual environment for collaborative innovation and end-to-end data management across the life cycle. Sanofi can experience the manufacturing systems under development and their operation virtually and optimize scale up and industrialization processes before deploying them.

"We want to improve people's lives by giving them faster access to vaccines and treatments while minimizing the environmental impacts of our activities," said Ana Alves, EVolute Facility Global Project Head & Site Head of Neuville sur Saone, Sanofi. "Dassault Systèmes delivers the technology we need to accelerate the introduction of new products in the facility by supporting the collaborative works of our teams and by strengthening the standardization of designs and models. It will also bring capabilities to reach our objective to produce several products in the EVF in an optimized schedule, thanks to the digital twin. Then, the 3DEXPERIENCE platform will help us to address the complexity of the product lifecycle management in a highly regulated environment and for the benefit of our patients."

Pharmaceutical manufacturers must qualify facilities, equipment and processes before production to ensure safety and quality. This can take weeks or months depending on the equipment configurations and process parameters for different product recipes. Virtual twins enable manufacturers to standardize modules, reduce this timeframe, and boost their ability to quickly and massively produce crucial therapies.

With a virtual twin, Sanofi can visualize and simulate the recipe, equipment and consumables that a particular process requires, as well as the flow and activity of the modules and operators in the

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“ballroom” – a flexible and adaptable area that enables manufacturers to quickly switch between processes. Sanofi can add, remove and replace functional elements and process steps as needed in a seamless way, and reconfigure the production lines for a fast changeover from one product to another one. It can also accelerate the main activities of the life cycle of new modules, processes and facilities more quickly and catalog them into its product life cycle management for reuse and faster product changeover.

“The pandemic made it clear: BioPharmas must be able to maximize efficiency and quickly provide high-quality, innovative therapeutics to patients worldwide,” said Claire Biot, Vice President, Life Sciences & Healthcare Industry, Dassault Systèmes. “Sanofi is responding to this challenge with next generation modular manufacturing that can transform the speed at which products reach patients. Thanks to the 3DEXPERIENCE platform, Sanofi will implement new products right the first time, with faster production ramp-ups and concurrent process production for built-in flexibility. Ergonomics on the shop floor can be simulated and improved.”

Infor and Methodist Hospitals Partner to Create Clinically Connected Cloud Healthcare Platform

19 October 2022

Infor®, the industry cloud company, announced that Methodist Hospitals — a community-based, not-for-profit health system with two full-service acute care facilities in Gary and Merrillville, Indiana — has selected Infor to achieve its goal of a clinically connected healthcare platform in the cloud. By automating key business processes, including its supply chain, HR and finance functions, and moving operations to a more modern cloud architecture solution, Methodist will standardize and optimize across its health system to achieve strategic business goals and visions of providing the best possible care to the communities it serves.

“Our organization is a healthcare leader in Northwest Indiana, and with that comes the responsibility to consistently evaluate our own internal processes to ensure we are providing our teams and communities with the best possible systems and solutions, which can directly impact how care is delivered. We have grown throughout the years, and it was essential that we work with a partner who understands our business and is able to help us seamlessly consolidate siloed systems and third-party applications into one single voice, in order to achieve our goals,” said Matthew Doyle, chief executive officer for Methodist Hospitals. “Infor's proven cloud-based model will be able to provide us with the tools we need to glean more analytics from our data, simplify future upgrades, and keep us current with modern technology needs across multiple departments.”

An Infor customer for more than 20 years, Methodist Hospitals knew that Infor was the right partner to help the organization navigate through this transition and get it up and running quickly. With Infor, the organization will be able to consolidate information across the network and deliver financial data to decision makers that will improve budget management, cost reduction strategies and forecast accuracy. In addition, they will be able to reduce reporting and custom interfaces, which will allow teams to be more productive and strategic and obtain valuable analytics without the use of consultants to build custom reports.

With a combined medical staff of more than 400 physicians, representing nearly 60 medical specialties, and more than 2,500 staff members, key applications for human capital management will empower teams to deliver streamlined processes and create significant value by eliminating complex processes, workflows and systems. Teams will also be able to increase clinical supply chain efficiency by

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leveraging clinically integrated healthcare supply chain software and embedded costing for greater return on investment (ROI), combine clinical and nonclinical analytics data, and keep communication lines between the supply chain team and the clinical team always open.

“We know the needs are immense for the healthcare industry, which is under increasing pressure to deliver for patients and customers with an infrastructure that captures and manages complex data sets, stays on top of regulations, and keeps teams organized,” said Matt Breslin, Infor executive vice president and general manager. “Our analytics, supply chain, scheduling and clinical data solutions consistently deliver on that need, ensuring relevant information is accessible the moment it is needed most. By replacing outdated and inefficient systems with proven solutions that empower teams and give them seamless access to critical information, we help customers significantly improve their bottom lines and results.”

Infosys to Modernize CIRCOR’s IT Infrastructure Landscape for Efficient and Agile Operations

20 October 2022

Infosys, a global leader in next-generation digital services and consulting, announced its collaboration with CIRCOR International, one of the world’s leading providers of mission critical flow control products and services for the Industrial and Aerospace & Defense markets, to transform its IT infrastructure, service desk, and user support applications. As part of this strategic engagement, Infosys will work on transforming CIRCOR’s IT landscape and modernize its IT infrastructure.

CIRCOR selected Infosys for its strong system integration and automation capabilities, extensive partner network, and ability to effectively address client requirements. Through this collaboration, Infosys will transform IT services for CIRCOR’s business users by deploying SLA-based managed IT services, improve processes, bring in agility into operations and will also modernize the local data centers and cloud landscapes.

Infosys will additionally provide integrated services and use ServiceNow as an IT service management platform (ITSM) to support CIRCOR’s infrastructure, applications, and operations. Further, Infosys will modernize CIRCOR’s cybersecurity landscape, leveraging its Cyber Next platform and helping CIRCOR improve its cybersecurity capability maturity model (CMMC) compliance. The engagement aims to ensure significant cost savings through the duration of the program and enable year-on-year productivity improvements.

Speaking about the collaboration, **Pete Sattler, Chief Information Officer, CIRCOR**, said, “The goal of our alliance with Infosys is to offer all our customers – both internal and external – faster and more reliable service, enhance our cybersecurity, and provide 24x7 monitoring for our global IT environment.”

Jasmeet Singh, Executive Vice President and Global Head of Manufacturing, Infosys, said, “We are delighted to collaborate with CIRCOR to fulfill its strategic business goals and accelerate its IT infrastructure transformation journey. With an in-depth understanding of CIRCOR’s business priorities and challenges, Infosys will help improve IT service delivery and productivity through analytics, automation, and process maturity.”

Permoda’s Digital Transformation to Drive Innovation in the Retail Sector

24 October 2022

Permoda, a manufacturer and retailer of clothing and fashion accessories, has selected Centric

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Software®'s Product Lifecycle Management (PLM) and Centric Visual Concept Board solutions. Centric Software provides the most innovative business solutions to plan, design, develop, source and sell products such as apparel, footwear, sporting goods, furniture, décor, cosmetics, food & beverage and luxury to achieve strategic and operational goals of digital transformation goals.

Founded in 1983, Permoda (operating under the KOAJ brand) directly employs more than 8,000 people and has more than 500 points of sale in Colombia, Ecuador and Costa Rica, as well as an active presence in Mexico and Panama with operations in Asia. The company specializes in developing international fashion trends, generating unique shopping experiences with an optimal relationship between style, quality and price.

The Colombian multinational chose Centric PLM and Centric Visual Concept Boards to optimize the full end-to-end workflow—including all processes around the value chain— so they can fully focus on the end-consumer experience.

Although it wasn't the first PLM solution tested by the brand, Pierre Caliz, Director of Technology at Permoda states, "We need to intelligently manage inventory from the beginning, implement a unified and centralized database to feed other business processes in addition to digitalizing the overall life cycle management of our product, improving process times and optimizing profit margins." Liliana Díaz, Product Development and Innovation Manager adds, "We were looking for a solution that allows us to keep up with the speed of the market and the latest international trends—to quickly integrate the right resources to accelerate the development of innovative products. With Centric Visual Boards, we aim to increase the garment portfolio by 75% to 90% at our Colombian and Mexican factories."

Besides adopting Centric PLM and Centric Visual Boards, the company decided to leverage 3D integration. Permoda intends to manage all aspects of the product with digital samples and 3D visuals, as well as centralize the information necessary for commercialization. With both Centric solutions, Permoda will enable a full digital product creation workflow as they will have digital access to a virtual materials list, technical specs, sizes and colors, textile libraries and exact costs, to go directly to production without the need to use any samples.

Chris Groves, President and CEO of Centric Software says, "Permoda and Centric's strategic alliance focuses on three elements, all related to the value proposition and differentiators of PLM. First, Centric's foundation as a technology platform clearly stems from software expertise, unlike other vendors that were born from industrial hardware. The second is the reduction in cost of goods sold. And finally, the innovative integration between PLM and 3D toolsets that enable digital execution and agility to shorten the product life cycle, generate savings throughout the process of continuous portfolio development and enable strategic decision making."

Groves concludes, "We are very excited about this collaboration and look forward to partnering with Permoda not only on their goals of speed to market and innovation, but also in developing 3D prototypes to enter into the commercial metaverse. It is very rewarding to collaborate with our clients at the forefront of digital transformation and to see how Latin America is rapidly advancing in business digitalization with Centric solutions as the foundation."

Sainsbury's Partners with TCS to Accelerate Business Growth through a Cloud-First Strategy

21 October 2022

Tata Consultancy Services (TCS) has been selected as a transformation partner by Sainsbury's, a leading supermarket retailer in the UK, to accelerate the latter's business growth through a cloud-first strategy.

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TCS has been a strategic partner to Sainsbury's for over a decade, helping the retailer drive numerous business-critical transformation programmes. As a part of the new multi-year partnership, TCS will consolidate and modernise Sainsbury's IT infrastructure landscape into a modern hybrid cloud stack using TCS Enterprise Cloud™. By enabling an integrated cloud platform, TCS will build a scalable foundation for a digital core, enabling greater agility, flexibility, and resilience for Sainsbury's. Additionally, TCS will provide end-to-end managed services for modern workplace services, network connectivity, and security.

This is expected to help Sainsbury's speed up time to market, create new revenue streams, and enhance agility to respond in real time to emerging business scenarios. Sainsbury's plans to reinvest the savings to achieve its strategic priorities of offering value to customers through innovation and lower costs.

"This platform transformation underpinned by a cloud-first strategy is critical for our business. TCS was the partner of choice given their deep contextual knowledge and ability to align this transformation to our business strategy and vision," **Phil Jordan, Group CIO, Sainsbury's.**

"We are excited to expand our partnership with Sainsbury's and help them achieve their cloud-first strategy while setting up a solid foundation for future growth. With our domain knowledge, technology expertise, and experience in driving business transformations, we will enable Sainsbury's to achieve digital scale and realize benefits in their value chain," **Shankar Narayanan, President, Retail Cluster, TCS.**

Snellman Chooses Infor Cloud ERP System

25 October 2022

Infor®, the industry cloud company, announced that Snellman, the Finnish and Swedish ready-made food and meat processor, will implement Infor's cloud-based enterprise resource planning (ERP) system built on Amazon Web Services (AWS) to support its future growth and new business development. Infor CloudSuite Food & Beverage, a true multi-tenant cloud system, will help simplify Snellman's IT environment and improve the use of in-house resources.

The advantages of the new CloudSuite system include automated version updates, secure maintenance and scalability of the cloud environment, as well as, in accordance with composable ERP thinking, the ease and straightforward ability to add modular extensions as needed.

It was the industry-specific ERP system for the food industry and the advantages brought by a genuine multi-tenant cloud solution that helped Snellman chose to move from Infor M3 on-premises to the Infor cloud.

With the introduction of Infor CloudSuite, Snellman will also use the Infor Factory Track functionality for logistics automation and the Infor Birst BI solution that comes with the Infor OS platform for presenting and analyzing operational data.

Snellman and Infor are committed to long-term cooperation, and Infor will provide full support during the transition period before the full use of the new CloudSuite.

"We are grateful for Snellman's long-term commitment to Infor and the opportunity to support the renewal and growth of our customer's business with the world's most modern food & beverage solution and our extensive Nordic ecosystem," says Juha Levo, Infor's country director for Finland.

John Aspnäs, Snellman's IT manager, said: "We are happy to apply Infor's solution to Snellman's operations. Our goal is to have continuous service processes, and with the help of Infor, we now have a clear plan to continue moving from on-prem Infor M3 solutions to the cloud and Infor CloudSuite

solution. We are very familiar with the basic features of the Infor CloudSuite Food & Beverage solutions, which will be crucial for our long-term business needs. Infor is a long-term, important partner for us, and we believe they will continue to be that in the future, as well.”

Infor CloudSuite Food & Beverage is particularly well known as the choice of companies in the Finnish food industry.

TES-EUROPE chooses BricsCAD to design mission-critical routes for transporting wind turbines

26 October 2022

Bricsys®, a leading provider of CAD technology, is announcing TES-EUROPE, a specialist in the planning, engineering and execution of exceptional transportation, has chosen BricsCAD® to power its logistics projects in France.

The height of wind turbines has become increasingly taller to deliver higher megawatts and meet the growing demand of clean-energy solutions. This has resulted in the length of the transportation convoys growing from the current average of 60m to 90m. Moving a vehicle convoy of this size requires a detailed survey of the planned route, with detailed attention to the arrival point at the site of installation, so the blade can be offloaded in the best position for assembly.

TES-EUROPE needed to bolster its approach to designing the most practical routes which ensure the turbines arrive at the installation sites without incidence or damage. TES-EUROPE AutoTURN, powered by BricsCAD®, to support the successful maneuver of turbine convoys across roadways and landscapes.

AutoTURN is the leading swept-path analysis and turning-simulation software for vehicles; TES-EUROPE uses AutoTURN to optimize its mission-critical routes and itineraries, identify the need for bypasses or temporary road developments, and define the exact path followed at the installation site.

BricsCAD®, is the Computer Aided Design (CAD) engine that powers AutoTURN; it is also the ideal tool for TES-Europe to design bypasses, custom road developments or landscaping at the site of installation.

Jimmy Hoarau, Project Manager, TES-EUROPE comments: *“By choosing AutoTURN and BricsCAD, we have significantly reduced the risks and costs involved with transporting huge wind-turbine blades. Moving anything of the scale of a wind turbine is a complex task and meticulous planning is needed to ensure the impact on other people and the environment is minimal. That is why we’ve chosen BricsCAD design software to take care of the route so we can focus on delivering services of incredible value to our wind energy clients.”*

Benoit Fouchard, Business Development Manager, Bricsys comments: *“It’s an honor to be chosen as a trusted delivery partner for TES-EUROPE, a business with a true commitment to sustainability at its core. As clean energy solutions become increasingly sophisticated, so does the construction and transportation of those solutions and our accurate, open-source software takes some of the headache out of that process.”*

TES-EUROPE purchased AutoTURN and BricsCAD®, from Graph Land, a reseller for both brands in the French market in October 2021.

WellSpan Taps Oracle Fusion Cloud Applications as it Reimagines the Future of Healthcare

20 October 2022

WellSpan Health, a leading integrated healthcare system, has selected Oracle Fusion Cloud Applications Suite to unify operations and improve business visibility. With Oracle Fusion Applications, WellSpan will be able to integrate its finance, supply chain, and HR processes to improve operational insights, reduce costs, enhance the team member experience, and support its future expansion.

WellSpan is an integrated healthcare delivery system focused on value-based care that operates in 220 locations, runs eight award-winning hospitals that offer a wide range of services, and employs more than 20,000 people. As the company grew, it accumulated multiple disparate business systems which limited maximum operational efficiency. To address this challenge and support future growth, WellSpan decided to replace its legacy on-premises business systems with Oracle Fusion Applications, an integrated suite of finance, supply chain, and HR applications.

“At WellSpan, we are relentless in our pursuit of discovering better ways to serve our communities. As we expanded, we knew we needed to eliminate complex systems and find a solution that would streamline business processes to better support our growing workforce,” said Laura Buczkowski, WellSpan Executive Vice President and Chief Financial Officer. “Partnering with Oracle will allow us to leverage best-in-class cloud applications to help our team members work and collaborate more efficiently so that they can deliver unparalleled care to the communities we operate in.”

WellSpan will implement Oracle Fusion Cloud Enterprise Resource Planning (ERP), Oracle Fusion Cloud Enterprise Performance Management (EPM), Oracle Fusion Cloud Supply Chain & Manufacturing (SCM), and Oracle Fusion Cloud Human Capital Management (HCM). With Oracle Fusion Applications, WellSpan will be able to take advantage of the cloud to break down organizational silos, standardize processes, and manage financial, supply chain, and HR data on a single integrated cloud platform. With quarterly update cycles, Oracle Fusion Applications will also give the WellSpan team access to continuous innovation, as new features are added every 90 days, without downtime or business disruption.

“WellSpan is helping reimagine the future of healthcare through the delivery of comprehensive and equitable health and wellness solutions,” said Steve Miranda, executive vice president of applications development, Oracle. “With Oracle Fusion Applications, WellSpan will be able to take advantage of an integrated suite of cloud applications to optimize its core business operations and ultimately deliver the highest quality of care possible to patients across its network.”

ZeroAvia Reduces Greenhouse Gases and Drives Toward More Sustainable Air Transport with Ansys

19 October 2022

ZeroAvia is leveraging Ansys simulation solutions in the development of its new, sustainable hydrogen-electric powertrain developed to reduce aircraft emissions. Hydrogen-electric propulsion technology can produce 90% less lifecycle emissions than jet fuel-powered turbines, and ZeroAvia predicts its powertrain will result in substantially lower operating costs.

A leader in sustainable aviation, ZeroAvia demonstrated the potential for zero-emission flight through flying the world’s largest hydrogen-electric powered aircraft, a Piper Malibu. ZeroAvia engineers leveraged Ansys multiphysics simulations — including structural analysis, fluid dynamics, FSI,

electromagnetic, and electromechanical analysis — to help make this electric-powered plane a reality. The ZeroAvia system uses electricity generated by a solar panel to run an air compression pump. When combined with hydrogen stored in an on-board tank, oxygen from the compressed air reacts with hydrogen in the fuel cell to produce electricity to power an electric airplane motor. Water is the only emission from this process — no carbon-based greenhouse gases.

The ZeroAvia team used Ansys® SCADE® to automatically generate the code controlling the motor, which helps reduce human error and costly coding mistakes. ZeroAvia also leveraged Ansys® medini analyze software to validate the safety of the aircraft's hydro-electric systems – supporting and accelerating the stringent certification process.

“Without Ansys, we would still be writing code for high-level application, which would have increased the development and verification,” said Youcef Abdelli, chief technology officer and chief engineer of electric propulsion systems at ZeroAvia. “For system certification, we use Ansys simulation to support the critical aspects of hydrogen-electric engine design - including thermal, safety, certification, stress, fatigue, and lifting.”

ZeroAvia will soon fly a retrofitted Dornier 228 aircraft to flight test its market-entry product - a 600kW hydrogen-electric powertrain designed for 9-19 seat aircraft to be commercialized by 2024. ZeroAvia is also already working on developing a 2-5MW powertrain capable of flying 40-80 seat aircraft by 2026. For these two certified-intent systems, ZeroAvia is working with Ansys software.

“Ansys simulation has long been used for aircraft control code, so we are excited to see that startup companies with new ideas like ZeroAvia are turning to Ansys to accelerate development of their hydrogen fuel cell aircraft,” said Walt Hearn, vice president of global sales and customer excellence at Ansys. “By reducing aviation emissions, their hydrogen-electric powertrains will support global efforts to halt climate change.”

Product News

Ansys 3D-IC Power Integrity and Thermal Solutions Certified for TSMC 3Dblox Reference Flow

26 October 2022

Ansys has collaborated with TSMC to certify that Ansys RedHawk-SC™ and Ansys® Redhawk-SC Electrothermal™ are compliant with TSMC's 3Dblox™ standard for the exchange of design data between different tools in a 3D-IC design flow. The TSMC 3Dblox™ standard unifies its Open Innovation Platform® (OIP) design ecosystem with qualified EDA tools and flows for TSMC 3DFabric™, the world's most comprehensive family of 3D silicon stacking and advanced packaging technologies. RedHawk-SC and Redhawk-SC Electrothermal are also included in TSMC's Reference Flow for 3Dblox.

Many of the world's most advanced silicon systems for high performance computing, artificial intelligence, machine learning, and graphic processing are made possible thanks to 3D-IC. Both TSMC's 3Dblox standard and the reference flow will make it easier and more efficient for Ansys 3D-IC Multiphysics Power Integrity and Thermal solutions to interoperate seamlessly with tools from other vendors when designing multi-chip systems for TSMC 3DFabric™ technologies.

“TSMC's advanced 3DFabric technologies and manufacturing expertise have been on the forefront of enabling the industry-wide trend toward multi-chip 3D-IC semiconductor systems,” said Dan Kochpatcharin, head of Design Infrastructure Management Division at TSMC. “3D-IC systems

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represent a significant leap in complexity and more multiphysics challenges that we are helping to address with our 3Dblox standard and a reference flow of certified tools. This joint effort with our ecosystem partners makes the system-level design using 3DFabric technologies easier and more efficient.”

3Dblox is designed to make modular top-down design of complex 2.5D and 3D systems easier and also to promote chiplet reuse. As a standardized interface format for design data, it makes it easier for TSMC’s customers to take full advantage of the many technology configurations available under TSMC’s 3DFabric technologies, including CoWoS[®], InFO, TSMC-SoIC[™], and more. The reference flow provides strong guidance on multiphysics solutions like RedHawk-SC that are certified to address real design challenges in an open platform approach.

Ansys RedHawk-SC ElectroThermal is integrated within the high-capacity cloud-native SeaScape platform and supports multi-chip 2.5D/3D-IC packages thermal integrity analysis. It can be used for early-design exploration, post-layout design verification, and silicon signoff of multi-die systems.

"Designers taking on the multiphysics challenges of 3D-IC design have looked to Ansys for its unparalleled breadth and depth of analysis and simulation capabilities that provide proven solutions at both the chip level and the system level," said John Lee, vice president and general manager of the semiconductor, electronics, and optics business unit at Ansys. "Our partnership with TSMC keeps Ansys products at the forefront of silicon technology and helps designers realize the greatest possible benefit from the latest process and 3DFabric innovations."

Ansys Multiphysics Solutions Achieve Certification for TSMC N4 Process and TSMC FINFLEX[™] Architecture

28 October 2022

Ansys and TSMC continued their long-standing technology collaboration to announce certification of Ansys’ power integrity software for TSMC’s FINFLEX[™] innovation as well as the TSMC N4 process. TSMC’s FINFLEX[™] architecture allows Ansys RedHawk-SC and Totem customers to make fine-grained speed-power tradeoffs which reduce a chip’s power footprint without sacrificing performance. This is important for lowering the environmental impact of many semiconductor applications, including machine learning, 5G mobile, and high-performance computing (HPC). This latest collaboration builds on the recent certification of the Ansys platform for TSMC’s N3E process.

“The unparalleled flexibility of our FINFLEX[™] innovation provides tremendous chip design advantage and flexibility to optimize for high performance, low power, or a balance between the two,” said Dan Kochpatcharin, head of Design Infrastructure Management Division at TSMC. “Our latest collaboration with Ansys on TSMC’s 3nm technology makes it easy for our mutual customers to take advantage of FINFLEX's benefits with full confidence in the power integrity and reliability signoff verification results from RedHawk-SC and Totem.”

Based on TSMC’s N3E process technology, TSMC FINFLEX architecture allows chip designers to choose from three options of FIN configurations for each standard cell implementation: One for highest performance and fastest clock frequencies, one for balanced efficient performance, and an ultra-power efficiency for the lowest leakage and highest density. This combination of characteristics enables chip designers to choose the best speed-performance option for each of the key functional blocks on a chip using the same design toolset.

"Ansys has developed an integrated software platform of multiphysics simulation and analysis tools with an emphasis on power management to minimize the design and operating costs of semiconductors," said

John Lee, vice president and general manager of the electronics, semiconductor and optics business unit at Ansys. “Our ongoing collaboration with TSMC aligns with our efforts to enable a sustainable technology future, enabling mutual customers to improve chip performance while reducing power consumption.”

Cadence Accelerates RF Design with Delivery of New TSMC N16 mmWave Reference Flow

26 October 2022

Cadence Design Systems, Inc. announced that Cadence® RFIC solutions support TSMC’s N16RF Design Reference Flow and process design kit (PDK) to help accelerate the next generation of mobile, 5G and automotive applications. The continued collaboration between Cadence and TSMC allows mutual customers to design with Cadence solutions for TSMC’s N16RF mmWave semiconductor technology.

The Cadence RFIC solutions support the Cadence Intelligent System Design™ strategy, enabling system-on-chip (SoC) design excellence.

The complete RF Design Reference Flow includes passive device modeling, block-level optimization, sensitive layout routing nets EM parasitics signoff, EM-IR analysis with custom passives, and self-heating. The reference flow features several products optimized for TSMC’s N16RF mmWave process technology, including the Cadence Virtuoso® Schematic Editor, Virtuoso ADE Product Suite, and integrated Spectre® X Simulator and RF option. Additionally, the flow features high capacity electromagnetic (EM) model generation using the Cadence EMX® 3D Planar Solver for seamless back-annotation of S-parameter models into golden schematic and EM-IR analysis with self-heating with the Voltus™-Fi Custom Power Integrity Solution, allowing automatic management of EM and RCX models for RF-accurate results. The flow enables users to effectively manage corner simulations and achieve design robustness.

The EMX Planar 3D Solver and Quantus™ Parasitic Extraction are integrated into the Virtuoso platform, enabling layered extraction of coupling effects and guaranteeing full-design EM parasitic signoff. The Cadence RFIC full flow offers an efficient methodology that lets engineers achieve design goals—performance, power efficiency and reliability—in a single, tightly integrated design environment.

“Through our continued collaboration with Cadence, we’re enabling customers to improve productivity using Cadence-certified flows and our advanced N16 mmWave process technology,” said Dan Kochpatcharin, head of the Design Infrastructure Management Division at TSMC. “With the new reference flow, we’re making it easier for those creating next-generation mobile, automotive, 5G, healthcare, and aerospace designs to adopt our technologies quickly, and we’ve already seen customers leverage our technologies to advance innovation.”

“By working closely with TSMC, our customers have access to the most sophisticated capabilities to create competitive designs with TSMC’s N16 mmWave process technology and our comprehensive RF and RFIC flows,” said Tom Beckley, senior vice president and general manager in the Custom IC & PCB Group at Cadence. “Cadence strives to provide our mutual customers with the best flows, and we constantly listen to feedback to gain an understanding of their real-world design requirements. This feedback allows us to tailor our flows accordingly so customers can focus on their designs, rather than integrations.”

Cadence Integrity 3D-IC Platform Certified for TSMC 3DFabric Offerings

26 October 2022

Cadence Design Systems, Inc. announced the leading Cadence® Integrity™ 3D-IC platform has achieved certification for and met all reference design flow criteria for TSMC's 3DFabric™ offerings, including Integrated Fan-Out (InFO), Chip-on-Wafer-on-Substrate (CoWoS®) and System-on-Integrated-Chips (TSMC-SoIC™) technologies. As part of the collaboration, the companies worked together to enable Cadence's support of the TSMC 3Dblox™ standard to help customers accelerate advanced multi-die package design across 5G, AI, mobile, hyperscale computing and IoT applications.

The Cadence Integrity 3D-IC platform combines system planning, implementation, Cadence Allegro® X packaging technologies and system-level analysis and is the industry's leading full-flow platform enabled for TSMC's new 3Dblox standard, which speeds 3D front-end design partitioning in complex systems. 3Dblox streamlines key aspects of design methodologies and allows chiplet reuse, providing a seamless interface for Cadence system analysis tools for early power delivery network (PDN) and thermal analysis via the Cadence Voltus™ IC Power Integrity Solution and Celsius™ Thermal Solver, extraction and static timing analysis via the Cadence Quantus™ Extraction Solution and Tempus™ Timing Signoff Solution and system-level layout versus schematic (LVS) checks via the Cadence Pegasus™ Verification System. Cadence's new Allegro Substrate Router (ASR) technology is integrated with Allegro X packaging technologies for ultra-high density die-to-die and die-to-package RDL auto-routing.

"In today's electronics market, customers need every advantage they can get when developing the highly sophisticated 3D-ICs that power emerging application areas," said Dan Kochpatcharin, head of the Design Infrastructure Management Division at TSMC. "By working to ensure the Cadence Integrity 3D-IC platform is certified for use with TSMC 3DFabric technologies, our mutual customers can enjoy significant gains in design efficiency that will help them get advanced, multi-chip solutions to market quickly."

"Our Integrity 3D-IC platform offers system planning, packaging and system-level analysis in a single platform, which provides customers with seamless design creation capabilities and a comprehensive signoff flow that supports TSMC's 3DFabric offerings," said Dr. Chin-Chi Teng, senior vice president and general manager in the Digital & Signoff Group at Cadence. "By continuing to collaborate with TSMC, we're giving our customers an efficient way to leverage the latest developments in 3D chip and multi-die technologies without compromising on time to market."

The Cadence Integrity 3D-IC platform is part of the company's broader 3D-IC offering and aligns with the Cadence Intelligent System Design™ strategy, enabling system-on-chip (SoC) design excellence.

Cadence Joins Intel Foundry Services USMAG Alliance to Accelerate Chip Design Development

24 October 2022

Cadence Design Systems, Inc. announced it has joined the new Intel Foundry Services (IFS) U.S. Military, Aerospace and Government (USMAG) Alliance to support mutual customers with the domestic development and delivery of system-on-chip (SoC) designs. By participating in the alliance, Cadence is advancing the adoption of Intel's secure manufacturing processes in conjunction with Cadence's secure EDA tools and IP, ensuring that military, aerospace and government customers meet stringent national security requirements.

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As an IFS USMAG Alliance member, Cadence benefits from early access to process roadmaps, process design kits (PDKs), technical training and multi-purpose-wafer (MPW) shuttles. In addition, the Cadence and IFS teams can create tailored, joint solutions that address design goals.

“Earlier this year, we launched the IFS Accelerator Design Ecosystem with Cadence as a member in EDA, IP, and Cloud alliances,” said Dr. Randhir Thakur, president of Intel Foundry Services. “By broadening our collaboration with Cadence to serve the military, aerospace and government sectors, we’re accelerating silicon innovation by providing mutual customers with secure access to Cadence’s innovative EDA solutions and IP and our advanced manufacturing capacity.”

“By joining the IFS USMAG Alliance, we’re embarking on a collaboration that ensures domestic customers creating our nation’s critical military, aerospace and government applications can achieve design and manufacturing objectives using Cadence’s EDA solutions and IP that are optimized for Intel’s advanced process technologies,” said Dr. Anirudh Devgan, president and CEO of Cadence. “We are committed to providing secure design solutions and flows optimized for MAG requirements, and through our expanded collaboration, our mutual customers can innovate with confidence.”

Cadence® advanced-node EDA solutions and IP support the company’s Intelligent System Design™ strategy, enabling customers to achieve SoC design excellence.

Cadence’s New Flow Automates Custom/Analog Design Migration on TSMC Advanced Technologies

26 October 2022

Cadence Design Systems, Inc. collaborated with TSMC to develop a node-to-node design migration flow built upon the Cadence® Virtuoso® design platform for custom/analog IC blocks that use TSMC’s advanced process technologies. The Cadence and TSMC R&D teams worked together to ensure the Virtuoso Schematic Editor and Layout Editor automatically migrate a source design on TSMC N5 and N4 process technologies to a new design on TSMC N3E process technology. Early analog design IP trials of the new migration flow showed that design time on common analog blocks was more than 2.5X faster compared with manual migration.

The Virtuoso Application Library Environment schematic migration solution, which is integrated into the Virtuoso design platform, automatically migrates a source schematic’s cells, parameters, pins and wiring from one process node to another technology. The target schematic is then tuned and optimized using the Virtuoso ADE Product Suite’s simulation environment and circuit optimization technology to verify the new schematic meets all necessary measurement targets.

The Virtuoso Layout Suite supports the reuse of existing layouts on a given process technology to quickly recreate a migrated layout on a new process technology, using custom place and route automation. Thanks to Virtuoso Layout Suite templates, TSMC’s analog-mapping technology and the routing technology in the Virtuoso design platform, designers can automatically recognize and extract groups of devices in an existing layout and apply templates to similar groups in the new layout.

“Through our continued collaboration with Cadence, we’re enabling our customers to improve productivity and accelerate design closure when performing node-to-node design migration of analog blocks within the Virtuoso design platform,” said Dan Kochpatcharin, Head of Design Infrastructure Management Division at TSMC. “Through the availability of our enhanced PDKs, we’re making it easy for our customers to easily migrate custom/analog blocks from one of our widely used processes to another and benefit from the power, performance, and area improvements of our latest technologies.”

“By working closely with TSMC, our customers now have access to the most sophisticated migration

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and custom/analog place and route automation capabilities within the Virtuoso design platform,” said Tom Beckley, senior vice president and general manager in the Custom IC, IC Packaging, PCB and System Analysis Group. “We’ve continuously collaborated with our mutual customers to understand their real-world design requirements. This new easy-to-use, node-to-node design migration technology addresses a key requirement for our customers’ most challenging custom analog designs.”

The Cadence Virtuoso design platform supports the Cadence Intelligent System Design™ strategy, enabling system-on-chip (SoC) design excellence.

Dassault Systèmes Announces Its New OUTSCALE Brand as the Leading Sovereign and Sustainable Operator of Trusted Business Experience as a Service

26 October 2022

Dassault Systèmes announced its ambition to become the leading sovereign and sustainable operator of trusted cloud services.

Dassault Systèmes’ cloud brand OUTSCALE is expanding its offering from trusted hyper-scalable infrastructure as a service to sovereign environments for trusted business experience as a service. Through this transition, Dassault Systèmes will strengthen the position of OUTSCALE as the strategic, sovereign cloud partner for governments and companies in all industries, thereby driving digital autonomy with three levels of experience cloud: dedicated cloud for sovereign collaboration in a customer’s space; private cloud for trusted collaboration in a common legal and fiscal space; and international cloud for secured collaboration.

OUTSCALE will deliver business experience twins that empower all business users to excel in their role by benefiting from data science, breaking down silos, and capturing knowledge and know-how within their organization and ecosystem – from market intelligence and cost optimization to talent management, innovation acceleration, asset intelligence, and in-service quality enforcement. Dassault Systèmes will execute this ambition by relying on its 40 years of expertise across multiple industry verticals. The OUTSCALE portfolio leverages the company’s extensive knowledge and know-how to host all its own platforms on a scalable cloud and accelerate the move-to-cloud.

OUTSCALE is building its cloud ecosystem to develop business experiences as well as to address cyber governance. Today, Dassault Systèmes announced the first alliance for a European sovereign cloud responding to country-specific governance. This will be supported by a joint venture with Banque des Territoires, Docaposte (digital subsidiary of La Poste group), and Bouygues Telecom.

Laurent Seror, founder of OUTSCALE, will continue to lead as board member of OUTSCALE. Philippe Miltin has been named CEO of OUTSCALE, with more than 20 years of experience in the digital industry, most recently at Atos. He will focus on the development and sale of OUTSCALE’s portfolio of ready-to-use cloud solutions. Arnaud Bertrand joins OUTSCALE as Senior Vice President, Research and Development. With more than 20 years of experience in big data and high performance computing experience, most recently at Bull, Arnaud Bertrand will manage OUTSCALE’s research and development teams.

“Our strategy for OUTSCALE and its offering are unique in the industry. We are applying 40 years of expertise at an industrial level to deliver an end-to-end sovereign cloud offering that is intricately linked to each customer’s core business and enables them to create value from data at multiple levels,” said Pascal Daloz, COO, Dassault Systèmes. “With its dedicated and experienced leadership team, OUTSCALE will become the trusted partner of choice for our customers.”

DXC Technology Expands Global Partnership with Dynatrace, Accelerating Business Transformation for Customers

27 October 2022

DXC Technology, a leading Fortune 500 global technology services company, announced an expanded partnership with Dynatrace in which the Dynatrace® Software Intelligence Platform will become the preferred DXC Platform X™ software for observability and artificial intelligence-powered automated management of a customer's IT estate.

DXC Platform X is a data-driven, intelligent automation platform that proactively helps detect, prevent, and resolve issues to achieve resilient, self-healing IT. The platform continuously evolves to bring DXC customers best-in-class solutions that meet their rapidly changing technology needs and help them be future ready with capabilities to deliver their desired business outcomes.

Dynatrace provides AI-powered observability, which enhances proactive and intelligent automation. The enhanced partnership will deliver more efficient operations and improved performance across today's dynamic and complex hybrid and multicloud environments. With hundreds of DXC colleagues trained and certified on Dynatrace, the company can provide the needed expertise and services to deliver breakthrough digital experiences for its customers.

“DXC customers depend on us to be a safe pair of hands, running their mission critical systems reliably and silently,” said Chris Drumgoole, DXC's Executive Vice President and Chief Operating Officer. “The addition of Dynatrace, with its unified and intelligent view across software products and technologies, helps us strengthen our predictive AIOps capabilities and drive cost optimization. This is another proof point in the ongoing progression of Platform X, on the heels of forming our ServiceNow Strategic Business Group, which was announced earlier this year. DXC is committed to continuously innovating, augmenting DXC proprietary capabilities with market-leading solution providers.”

Underscoring the significance of this partnership, Dynatrace recognized DXC as the 2022 Partner of the Year in North America and 2022 Service Provider of the year in APAC and EMEA. To cement our successful partnership, DXC and Dynatrace have agreed to launch a joint strategic go-to-market program globally to bring an enhanced, intelligent, cross-service-line solution to customers worldwide. This will entail joint development, co-marketing and co-selling, events, and customer engagement.

“This expanded partnership with DXC reflects an aligned vision for our customers of what is critical to achieving digital transformation at scale,” said Rick McConnell, CEO at Dynatrace. “The combination of DXC's deep experience running and transforming mission-critical hybrid and multicloud systems for thousands of clients worldwide with the Dynatrace platform shortens the time between cloud decisions and successful cloud deployments. This is enabled by reducing complexity, delivering precise answers from the immense amount of data coming from modern clouds, and freeing up time through continuous, intelligent automation.”

DXC has been providing Zurich, a leading provider of commercial property-casualty insurance solutions and services, with advanced monitoring-as-a-service, built around the Dynatrace Software Intelligence Platform, for over five years.

“DXC's service proactively monitors our critical applications ensuring maximum reliability and resiliency,” said Paul Ruskusky - Vice President, Head of IT Infrastructure & Operations for Zurich North America. “This has helped to achieve our goals of simplifying operations, freeing up time for innovation, and delivering improved customer experiences.”

Today's enterprise customers need agile partners who continuously evolve to support them on their

transformation journey, ensuring maximum performance and business outcomes from their existing and new IT investments. Enhancing DXC Platform X with the Dynatrace platform's full-stack, intelligent observability takes our solution to the next level, delivering increased operational efficiencies, and accelerated growth to drive greater customer impact.

GibbsCAM and Sandvik collaboration delivers productivity boost for Version 2023

25 October 2022

CAMBRIO are pleased to announce the new release GibbsCAM 2023. New developments continue the focus on core capability, while introducing new technology in collaboration with Sandvik Coromant. GibbsCAM continues to lead the industry in the programming of advanced machining centers for end-user productivity, underpinning the GibbsCAM promise of Powerfully Simple, Simply Powerful.

Power Up with GibbsCAM 2023

GibbsCAM 2023 features a number of significant Turning enhancements including the highly effective implementation of Sandvik Coromant's PrimeTurning™ strategies. These new cutting methodologies permit turning and facing in all directions, delivering dramatic increases in high volume production. PrimeTurning™ has proven to deliver cycle time reductions of up to 50%, and more than 500% increase for insert tool life. PrimeTurning™ uses the slope of the insert for chip thinning to allow you to make heavy cuts and spread cutting forces and heat over a larger portion of the cutting edge, which in turn contributes to longer tool life. In addition, PrimeTurning™ adapts the feed rate (excellent for cutting on a taper) to constantly manage chip thickness which is ideal for high-volume and unattended environments. PrimeTurning™ supports two new tool types (CoroTurn® Prime Type-A with three 35° corners for finishing and fine roughing / getting into grooves etc, and CoroTurn® Prime Type-B with two strong corners for bulk roughing / heavy cutting) that both utilize a low lead angle to improve surface finish.

Commenting on the latest development, Åke Nilsson, Global Product application manager for Turning tools at Sandvik Coromant AB says, *"we have now extensively tested the PrimeTurning™ cycle in GibbsCAM, and it's really good. The team have taken an innovative approach and I must say that they've made a tremendous job with the technology implementation"*.

Other enhancements include a new option in most Turning processes to control Cutting Load Variation in order to suppress resonance-induced chatter and improve chip breaking for CNC machines. This machine capability is also called variable spindle speed by Okuma, and low frequency vibration by Citizen. VoluTurn functionality has also been extended to manage the active control of chip thickness during the cut by varying the feed rate instantaneously with any changes in cut depth.

Thread Turning operations have been expanded with Face Threading, Variable Pitch Threading, Multi-pitch, and Position Tool Front options. Users can produce a spiral thread on the face of a part, vary pitch threads incrementally per revolution, or generate different pitches on a continuous thread, with easy control of exact start/end specs in the tool dialog.

Alongside many other Turning enhancements, it is now possible to specify Rake and Back Relief for tool inserts to more accurately define the 3D geometry of the tool inserts to provide a tool representation that perfectly matches what the customer is experiencing. Also, the Elliptical Contour process may now be used for elliptical bores inside of solid parts, and supports a radial (Xr) stock offset, for both inner diameter (ID) and outer diameter (OD) machining.

Cylindrical milling in GibbsCAM 2023 is easier with direct selection of a "Slice" in the CS depth axis -- select a closed profile to machine a cylindrical boss or pocket, or select two loops to machine a groove

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or ring without the need to extract edge geometry and unwrap the shape. New Spiral Boring functionality cuts a spiral out to the full diameter at each Z step, which substantially increases cutting feed rate and depth due to a more consistent tool load. In addition, Mill Roughing can now omit cavity areas to support high-speed mill tools that cannot plunge or ramp.

GibbsCAM 2023 extends the default drill cycle types to include five more: gun drilling, variable peck (full out and chip breaker), and peck tap (full out and chip breaker). In addition, a new Multifunction Insert Drill type is supported which can be used to perform both turning and drilling/boring operations (such as the Sandvik Coromant CoroDrill® 880 series). The Multifunction Insert Drill tool type can seamlessly switch between turning, lathe drilling, and mill drilling without retraction or tool change motions. Also included is a new option for Lathe Drilling with counter-rotating tools that instructs the live tooling spindle to turn in the opposite direction at a specified RPM to effectively increase spindle speed and significantly boost material removal rates.

A number of new features for machine support include the ability to set tool changes from alternate origins. This now includes the ability to set the tool change home location based on Part (as in previous versions), Part Station, Machine, or Tool Group. In addition, it is also possible to flag tool motions with abnormally high feedrates and provide a safety warning to the operator. Alongside new simulation modes such as Fixture Visibility, GibbsCAM 2023 significantly boosts its simulation feature set.

Lastly, organizing parts is easier than ever to match the way you work. GibbsCAM 2023 lets you categorize and organize workgroups and coordinate systems within a part, and specify active and inactive operations which significantly helps users to part information throughout the CAM workflow, especially with large complex machining processes. To improve ease of use, new tabs have been added to allow the setting of work areas limits on a part-by-part basis and assign to new toolpath operations. In addition, the Work Fixtures tab within the Post Processor dialog can now group offsets in use by operation coordinate system. This increases visibility and program safety when multiple coordinate systems are used on a single fixture offset.

Hexagon's Asset Lifecycle Intelligence Division Expands Portfolio in Asia Pacific with Leading Enterprise Asset Management Solution

27 October 2022

Hexagon's Asset Lifecycle Intelligence division announced it has expanded its portfolio in Asia Pacific and can support customers in their digital asset transformation and maintenance journey with the addition of HxGN EAM.

HxGN EAM (formerly Infor EAM) was recently named a leader in the enterprise asset management market in the Green Quadrant: Enterprise Asset Management Software 2022 report from Verdantix, an independent research and advisory firm with expertise in digital strategies for Operational Excellence, Smart Buildings, Environment, Health & Safety and ESG & Sustainability.

According to Verdantix, the global spending on enterprise asset management (EAM) software will reach US\$5.4 billion in 2026, compared to US\$3.6 billion in 2021, and that acquisitions and funding are reshaping the EAM market.

This growth is spurred on by initiatives for digital transformation and a need to improve asset reliability and maintenance in a standardised and cost-efficient manner with the sustainability goals of corporations in mind.

"HxGN EAM is the world's best-rated solution for maximising asset performance in any industry, with unique capabilities for managing risks and sustainability, and we're excited to be able to bring HxGN

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EAM to our Korean customers and help them with their digital asset transformation journey to achieve the ever-changing and ever-challenging business outcomes," said Supratim Mukhopadhyay, APAC Director of Sales – EAM, Hexagon's Asset Lifecycle Intelligence division. "We have more than 3,250 customers in industries such as manufacturing, power and energy, transportation and more, globally utilising HxGN EAM to monitor and track assets, digitalise maintenance throughout their enterprise-wide operations and extract more value from their assets."

"HxGN EAM is a best-in-class next generation asset management solution with unparalleled user-friendliness from a management level all the way to the end user's fingertips with native mobile capability. Leading customers worldwide, including one of Australasia's leading transport companies, Singapore's healthcare organisations, Korea's largest eCommerce and logistics company and an energy company in Japan, are utilising HxGN EAM to optimise asset utilisation for higher production output and therefore increased revenue, achieve decarbonisation targets through compliant and auditable operations, and digitalising their assets to harness the data for safe operations," said Mr Mukhopadhyay.

Built upon 36 years of experience and continuous innovation, HxGN EAM provides all the tools needed to help solve critical asset performance challenges. HxGN EAM is a strategic, asset management solution that empowers customers to increase efficiency of their assets – today and tomorrow.

Honeywell Partners With Microsoft to Support Mobile Workers Through Software

24 October 2022

Honeywell announced a new integration with Microsoft to help highly mobile workers by providing a set of digital tools enabling enhanced communication and collaboration, all on one platform.

Users of select Honeywell mobile computers in the warehousing, logistics, healthcare and retail fields can download the popular and optimized Microsoft Teams for frontline workers application. Through Teams, workers can turn Honeywell devices into a walkie talkie with a dedicated button. This push-to-talk solution enables clear, instant and secure voice communication over the cloud, allowing employees to better serve customers or patients on demand.

"A customer- or patient-centric approach can be improved through technology-led productivity and mobility solutions," said Karen Bomber, senior director of Marketing at Honeywell Productivity Solutions and Services. "As mobile workers are being challenged to know more at a moment's notice than ever before, the combination of Honeywell's rugged, versatile mobile computers with Microsoft Teams gives workers access to the answers they need by connecting with each other to coordinate the right outcomes."

Despite their essential role in every industry, mobile workers have been traditionally underserved by technology. According to Microsoft's Work Trend Index,¹ 46 percent of frontline workers reported they value tech tools over mental health and wellness benefits at their job to help reduce work-related stress, just behind better pay and vacation time. Empowering them with the right technology makes their job easier and allows efficient collaboration between coworkers.

"We're thrilled to add Honeywell to our purpose-built devices integrated with Microsoft Teams," said Kristina Behr, Vice President of Product, Frontline and Workflows at Microsoft. "Frontline workers are the backbone of many organizations, and this solution empowers the frontline workforce to deliver agility in responsiveness and optimize productivity, all on a single, secure enterprise platform."

The addition of Microsoft Teams for frontline workers to Honeywell's software ecosystem allows employees to communicate and collaborate with each other effectively using one powerful mobile computer without the need to carry separate bulky radios.

Honeywell Productivity Solutions and Services develops and deploys an innovative range of solutions, software and services that help keep workers and workplaces safer and more productive, and supply chains and assets more efficient, accurate and reliable.

Informatica Launches Intelligent Data Management Cloud for Higher Education

25 October 2022

Informatica[®], the enterprise cloud data management leader, announced the launch of the Intelligent Data Management Cloud (IDMC) for higher education at Educause, an annual conference focused on higher education technology. IDMC for higher education will enable institutions to modernize their data infrastructure with an AI-powered, secure, and scalable solution to connect the academic community better, make data-led decisions, and support innovative teaching and learning.

According to a research study released by Educause, data integration has been a challenge since the introduction of student success technologies. Schools have data distributed across decentralized units and need better ways of integrating it all from disparate systems into a cohesive structure so they can draw insights from student success data.

“Simply moving data to the cloud may achieve efficiency, but more is needed to get value. Our partnership with Informatica brings best-in-class data management capabilities for the cloud while allowing us to integrate our on-premise data environments. We need reliable and timely data to achieve efficient operations, effectuation of our strategic plan, and ultimately student success,” said Jimmy Patel, Director of Business Intelligence & Data Analytics, Information Technology Services, Old Dominion University.

“Informatica’s Customer 360 powered by the IDMC platform enables us to have a single source of truth, a holistic 360-degree view of data we can trust from across our organization for data analytics and insights,” said Anthony Perera, Director of Data & Analytics at La Trobe University. “We can have greater peace of mind and not have to worry about data, and that frees up our time to deal with more strategic tasks. Furthermore, having high quality, trusted data allows us to optimize our marketing campaign efforts and become even more successful in engaging our students in every stage of their journey with us – from student recruitment, enrolment right through to graduation and beyond. This underpins La Trobe’s belief in pursuing sustainable practices and innovation.”

IDMC for higher education offers a strong data foundation to allow educational institutions to provide digital experiences that drive business outcomes, including:

Deliver an exceptional student experience with a 360-degree view of students:

- Create customized curricula to drive engagement, improve graduation rates, and provide self-paced courses to facilitate student success and boost university rankings.
- Enable students to access digital assets online easily, view a class schedule, contact an academic advisor, or check financial aid details.
- Identify potential issues, such as checking in on a student who stops badging into the cafeteria and enable university staff to respond proactively.

Streamline admission and recruitment with advanced cloud data management:

Universities today, much like enterprises, are challenged with hundreds of data silos dispersed across multiple clouds and systems on-premises. IDMC offers cloud-first, cloud-native data management to build a single source of truth on student data, a critical foundation for enhancing the student experience. IDMC for higher education helps:

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- Scale data management efforts with advanced capabilities such as mass ingestion, high performance ELT, and sophisticated workload orchestrations.
- Support high-performance, scalable analytics with advanced transformations.
- Offer no-code tools that provide intelligent recommendations to scale and lower the total cost of ownership.

Ensure security, privacy, and compliance:

- Deliver governed, protected, and trusted data across the entire institution.
- Identify and protect sensitive information to ensure consent and ethical data processing.
- Provide a secure cloud-based platform with comprehensive technical safeguards covering access, encryption, auditing, and other stringent controls.
- Protect student data and facilitate compliance with state, federal, and global regulations with data privacy.

“With many siloed business systems generating vast volumes of data in various formats, educational institutions struggle to get a clear, complete view at every stage of the student lifecycle,” said Michael Anderson, Chief Strategist, Public Sector at Informatica. “Delivering the right digital services requires high-quality data that provides a 360-degree view of the educational lifecycle of each student. With our IDMC for higher education, we’re able to analyze data across departments and functions — from recruitment to academic studies as well as on-campus and off-campus life to provide an ideal campus experience.”

Lantek presents its new 2022 version with significant advances in flexibility and manual processes automation

24 October 2022

Lantek, a multinational pioneer in the digital transformation of the sheet metal and metal cutting and processing industry, has presented over 80 new improvements and advances in its latest software version, **Lantek Global Release 2022**.

This new update of its product family incorporates significant improvements in **flexibility**, making it adaptable to the different circumstances of all types of company; **usability**, for a better user experience and process visibility; and **efficiency** and **automation**, to accelerate the speed of the tasks, reducing manual steps.

Several months of intense work, thousands of hours of development, with almost a dozen teams involved, **has resulted in more than 80 new functionalities** within its portfolio, as well as other internal and architectural improvements that will allow the company to continue guaranteeing the evolution of its products.

Juan José Colás, Lantek’s Chief of Sales and Marketing Officer says, "After more than 36 years of history, at Lantek we continue to move forward and learn with the aim of improving our customers’ experience. With this new version, we aim to have a greater impact on the productivity and visibility of companies, accompanying them on their journey towards digital transformation."

Lantek Expert

The Lantek Expert nesting software solution incorporates **multiple improvements**, so that its users can use them on a daily basis from different areas of the system. It also has **a redesigned module that allows automatic tagging technology to be applied**, this provides improved configuration options to

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adapt to any part geometry or cutting quality, thus avoiding possible imperfections in the final result.

The new version also facilitates the **native interpretation of bending line technology** from the import stage, as well as the **automatic import of nests created by external systems including the automatic detection of repeated parts**. Additionally, new options have been added for the **semi-automatic generation and modification of scraps**.

Lantek Flex3d

The market for machining structural tubes and profiles continues to grow strongly, as does the number of new machines, devices and technologies designed to cut these types of part. Lantek's new update reflects the latest industry demands as scenarios for greater digital maturity evolve.

To meet these requirements, the **new machine configuration module has been completely redesigned** for faster system start-up on any type of machine where it is implemented.

Additionally, its **innovative process automation module allows you to easily create unattended or guided workflows**, and even use the entire Flex3d architecture as a big "black box", with countless possibilities.

Furthermore, Lantek's **new advanced milling technology management** supports different tooling and cutting strategies for machines that incorporate this technology, expanding the available machining possibilities.

Lantek MES and Lantek Integra

Lantek MES and Lantek Integra handle workshop management, accurately track resource loading, orders, delivery dates, quality and stock levels, maintaining traceability and flexibility to react to changing circumstances.

To improve traceability, **the capabilities for recording information on downtime and reasons for parts scrapped during production has been improved** optimising their subsequent analysis.

The operator will also have the **ability to record changes made to the sheet format** ultimately used during the production of a nest, maintaining traceability for any change within the software system.

In this new version, **multiple improvements have been made to the *Power Sync* integration engine**, in order to **export production information from your MES to external systems**, both for cutting processes and for any type of operation.

Quoting has become **one of the key processes for many of Lantek's customers**, with new needs as their businesses evolve. Better integration of Lantek MES and Lantek Integra with Lantek Flex3D allows new options for importing, nesting, and time and cost calculation in the **tube/profile parts quoting** module. Support for **assembly quoting** has also been improved, thanks to a new, intuitive ability to browse the entire assembly structure of components and the operations involved in the calculation of costs and prices for a quote.

Finally, Lantek Integra **perfects material planning**, thanks to the ability to **"pre-reserve" sheets or profiles** in sales orders. This is fully **integrated with the Warehouse and Purchasing modules**, so the right material can be used later during the nesting process.

Lantek Analytics

The commercial launch of Lantek Analytics in 2021 saw the incorporation of the first SaaS (**Software as a Service**) application to Lantek's product portfolio. This business intelligence application collects relevant business data every day. It can be accessed from any device at any time and allows users to see what is happening in the factory with more than 70 predefined KPIs and dozens of metrics and

dimensions available. It has never been easier to transparently observe the data of any business, all aggregated into meaningful *KPIs*.

In recent months, Lantek has incorporated numerous improvements into this Cloud-based Business Intelligence module. These allow the **creation and visualisation of customised widgets and KPIs**, as well as stability and performance improvements.

All these innovations and additions will allow Lantek to position its products at a new level, with the aim of providing its customers with great visibility and control, facilitating and speeding up production.

Mastercam Mill Solutions Target a Streamlined Manufacturing Process

18 October 2022

Mastercam Mill offers expanded machining flexibility and an increased emphasis on speed and automation. Multiaxis features, 3D enhancements, and 2D high-speed toolpaths combine with dozens of additional new enhancements in a software package intended to improve shop floor productivity.

Here are some significant highlights and new functionality in Mastercam Mill:

Multiaxis Improvements

Morph, Parallel, Along Curve, and Project Curve are no longer individual toolpaths. Instead, users can now find the same functionality inside the Multiaxis Unified toolpath, which allows for more flexibility in cut pattern when programming multiaxis, all within a new advanced feature set and consolidated, easy-to-use interface. A new Feed Rate Control page consolidates the feed rate control options, making the options easier to find and simplifying your workflow.

3D Enhancements

The Dynamic OptiRough and Area Roughing toolpaths can now be aware of undercut stock conditions, resulting in improvements to the toolpath motion, including less air cutting. Equal Scallop is now a fully stock-aware, semi-finishing toolpath that now identifies material left in corners and will machine with a single pass or with multiple passes to ease into the material. With the new linking parameters in OptiRough toolpaths, you can control and optimize your air cuts which allows for greater efficiency in roughing toolpaths when transitioning between passes or when in air.

2D Enhancements

The Slot Mill toolpath no longer requires two parallel walls when selecting the machining geometry. You are now able to select any closed chain. 2D Contour Profile Ramp now supports the Override feed rate option which allows you to specify a feed rate for the entry or exit move, allowing you to slow down feed rates as you are engaging material. When you drag and drop items in the Toolpath Hole Definition panel, Mastercam now provides visual cues for the drop location. Also, the drag-and-drop icon now indicates whether you are dragging a single item or multiple items.

Additional Improvements in Mastercam Mill that benefit efficiency include:

- The Tool page and Toolpath parameters tab for milling toolpaths have been redesigned to provide a better, user-friendly layout.
- Automatically Detecting and Including Stock for Z depths is now included for 3D high-speed toolpaths.
- New Feed Rate Control page for Multiaxis toolpaths which consolidates the feed rate control options, making them easier to find and simplifying your workflow.
- And much more.

New Region for Oracle Interconnect for Microsoft Azure Opens in South Africa

24 October 2022

Oracle announced the opening of a new Oracle Interconnect for Microsoft Azure location in Johannesburg, South Africa, providing direct connectivity between the Oracle Cloud Johannesburg region and the Microsoft Azure South Africa North region. With the latest Oracle Interconnect for Microsoft Azure, customers across Africa can now use the Oracle Database Service for Microsoft Azure. This Oracle service builds upon the core capabilities of Oracle Interconnect for Microsoft Azure and enables customers to easily integrate workloads on Azure with Oracle Database services on Oracle Cloud Infrastructure (OCI). Customers can also easily provision, access, and monitor enterprise-grade Oracle Database services in OCI.

Since 2019, Oracle and Microsoft have partnered to deliver 12 Oracle Interconnect for Microsoft Azure locations around the world, including San Jose, Phoenix, Ashburn, Toronto, Vinhedo, Amsterdam, London, Frankfurt, Tokyo, Seoul, Singapore, and Johannesburg. These locations offer customers multicloud capabilities to run their business-critical applications. For example, customers using Oracle Autonomous Database on OCI can connect to Azure analytics tools and AI workloads without copying data. Customers can also run applications like Oracle E-Business Suite on Azure or OCI and integrate as part of a single solution.

“Our longstanding collaboration with Microsoft Azure gives our joint customers the flexibility and choice to innovate using the best of both our clouds. With growing customer demand for multicloud capabilities across Africa, we look forward to helping Microsoft Azure customers migrate their workloads to the cloud without the need for complicated re-platforming, while giving them seamless access to Oracle Database services on OCI,” said Nick Redshaw, senior vice president, Technology Cloud, Middle East and Africa, Oracle.

“Microsoft and Oracle share a long-standing history of delivering excellence on behalf of our mutual customers and supporting their evolving needs,” said Colin Erasmus, COO, Microsoft South Africa. “Expanding the Oracle Interconnect for Microsoft Azure to Johannesburg ensures our valued customers in this region can benefit from the choice to deploy multicloud solutions.”

Expanding Multicloud Opportunities in Africa

With Oracle Interconnect for Microsoft Azure, customers in Africa can now migrate and run mission-critical enterprise workloads across their Azure and OCI environments with a private, dedicated low-latency connection and identity federation. Customers also receive a collaborative, comprehensive service support model. Pricing is port-based with no additional charges for bandwidth consumed.

Customers can use the Oracle Interconnect for Microsoft Azure to connect components of one or more applications that require frequent communication, running some parts on OCI and others on Azure, thus benefitting from a “best-of-both-clouds” experience. They can also use either OCI Identity and Access Management or Azure Active Directory (Azure AD) for single sign-on to the two clouds and the respective applications. Customers can build high availability architectures within the regions and disaster recovery capabilities with another pair of interconnected regions using architectures published in the Cloud Adoption Frameworks for OCI and Azure.

“Cloud has become the foundational technology for organizations to modernize their critical IT infrastructure and leverage the benefits of emerging technologies such as AI/ML, analytics, IoT, security, and automation. The continuous investment in cloud data center space in South Africa by the global cloud providers has accelerated the adoption of public cloud services across industries, including some highly regulated sectors such as government, healthcare, and banking,” said Mark Walker,

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associate vice president, Sub-Saharan Africa, IDC.

“The total spending on public cloud services in South Africa is forecast to grow at a five-year CAGR of 24.6% between 2021 to 2026. The Oracle Interconnect for Microsoft Azure in South Africa will boost options available to local and global enterprises in the country. Given the availability of multiple in-country cloud providers, customers will be adopting a multicloud strategy based on price, functionalities, SLA, QoS, interoperability and innovation that, in turn, benefits the overall market,” added Walker.

“Because our platform was developed on the Microsoft .NET Framework and runs on Oracle Database, Oracle Interconnect for Microsoft Azure provides us with the best of both clouds. As Soho Media operates internationally, the fact that Oracle Interconnect for Microsoft Azure continues to rapidly expand into new regions allows us to accompany our customers wherever they are. The low latency connectivity of the interconnect helps ensure our platform runs seamlessly, better serving customers across the globe,” said Guillaume Delannoy, CEO, Soho Media Solutions.

“Oracle and Microsoft, together, enable us to realize our multicloud freedom and we’re glad to see these two leading cloud providers continue to make multicloud deployments seamless, safe, and cost-effective. With Oracle Interconnect for Microsoft Azure, we have been able to significantly expand our reporting and advanced data analytics capabilities, which allows us to better serve the needs of our customers and patients,” said Peter Gawroniak, senior director, IT Infrastructure and Operations (I&O), Integra LifeSciences.

OPENCLM WITH ENHANCED IMPACT ANALYSIS AND MATURITY MONITORING

28 October 2022

PROSTEP is launching the new version 1.2 of its OpenCLM solution for end-to-end digitalization and traceability. In addition to enhanced capabilities for cross-domain impact analysis, automated baselining and maturity monitoring, it provides even better support for the cross-enterprise exchange of structural and metadata for simulation. The new version is now available.

An important new feature in OpenCLM, suggested by a number of different customers, is predefined impact analyses. Users can now determine which artifacts and information objects are being used in which projects with just a few clicks of the mouse. It also makes it easier to analyze which objects are affected by a change and which changes have an impact on which objects.

PROSTEP has significantly improved the ability to visualize cross-domain relationships between artifacts and illustrate their level of maturity. Project-specific dashboards are available to help users keep track of project activities. Gantt charts support maturity monitoring. Further improvements have also been made to the user interface to make it even easier for users to tailor it to meet their specific needs.

The credible simulation process (CSP) for the trustworthy exchange of simulation data, which PROSTEP mapped in OpenCLM as part of the SETLevel joint project, has also been improved: Workflow and access rights can now also be applied to individual information objects.

The solution also supports the export and import of simulation data in the data formats SSP (System Structure and Parametrization) and STMD (Simulation Task Meta Data). This new feature is an important step on the way to a CSP "round trip", which involves sending packages back to the OEMs once the suppliers have completed their simulation.

Among other things, OpenCLM is used to "freeze" the development versions of the different domains at

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certain milestones as baselines with the aim of ensuring that their development history can be traced. This process has been extended in the new version to include the option of creating baselines automatically when the status of the work steps changes or when a milestone has been achieved. Automation helps further improve the traceability of the development processes and deliverables.

OpenCLM can be used to link information from all enterprise applications, which can also be connected to the OpenPDM integration platform. PROSTEP has rounded out its portfolio of connectors with the launch of the new version.

Thanks to the enhancements and improvements, the current OpenCLM version can now be used productively, as Product Manager Rainer Zeifang points out: "The solution makes sure that the development of smart products that include a high proportion of electronics and software is managed more efficiently, while at the same time also ensuring cross-domain traceability."

Polarion ALM 22 R2 – What’s New and Noteworthy

20 October 2022

Radek Krotil posted to the Siemens blog on October 20th to outline the newest release of Siemens Polarion ALM software. Updates were made to REST API, navigation, table editing, and the diagram editor. To read the full story please go to the Siemens blog.

<https://blogs.sw.siemens.com/polarion/polarion-alm-22-r2-whats-new-and-noteworthy/>

RedTeam adds powerful new collaboration features to its flagship software solution, now renamed RedTeam Flex

18 October 2022

RedTeam Software, a leading construction management software platform provider, has added a powerful PDF markup function and Indicated Outcome Report as enhanced features to its flagship software solution, which it has renamed, RedTeam Flex.

The RedTeam Flex solution is designed to help mid- to enterprise-level contractors maximize communication, performance and productivity in the field. RedTeam Flex integrates with existing software platforms to offer users a convenient, accessible on-ramp to industry-leading jobsite management.

The RedTeam Flex PDF markup feature allows teams to annotate, publish and share drawing files on the web platform, as well as drawings and photos from the mobile application. With RedTeam Flex Indicated Outcome Report (IOR), contractors can aggregate data from construction management at risk (CMAR) projects. The feature enables the contractor to share the financial status of the project with clients in an easy, understandable format, offering full transparency throughout the life of the project.

"RedTeam Software continues to provide contractors with solutions that help them communicate changes, so they can minimize disruptions and keep their projects on track," said Betsie Hoyt, VP of Product of RedTeam Software. "We realize the value of helping teams stay connected, and that's why we are adding enhanced markup capability and the Indicated Outcome Report to the RedTeam Flex platform. We are committed to building great software so construction professionals can build great things."

In August, the company announced a similar PDF markup enhancement to Fieldlens by RedTeam, a dynamic, intuitive jobsite management software solution that keeps issues organized, documented, and appropriately escalated, and empowers effective collaboration among field, office, and trade workers.

These updates followed RedTeam Software's recent recapitalization and the acquisition of Paskr, now rebranded RedTeam Go, a commercial construction management solution for small to midsize contractors.

Siemens launches innovative cloud-native software for electrical design

25 October 2022

Siemens Digital Industries Software today announced the immediate availability of Siemens' Capital™ Electra™ X, a new cloud-native electrical design software as a service (SaaS) offering aimed at individual electrical designers or small teams that require an affordable yet powerful electrical design solution. Part of the Siemens Xcelerator™ portfolio of software and services, Capital Electra X offers users sophisticated electrical design capabilities with lower cost-of-ownership and shorter time-to-productivity than traditional on-premises solutions.

“Many products across multiple industries are differentiated via increasingly sophisticated electrical content, driving rapid adoption of commercial electrical design tools,” said Frances Evans, senior vice president, Integrated Electrical Systems, Siemens Digital Industries Software. “However, individual electrical engineers or small design teams often struggle with the higher cost-of-ownership and longer time-to-productivity of more complex enterprise-focused solutions. Instead, a browser-based SaaS solution designed for ease of use, rapid adoption and with minimal training requirements, will enable them to create electrical schematics easier and faster, using any device, for a low monthly cost.”

The new Capital Electra X offering is based on pioneering technology from the recently acquired Radica Software Sdn. Bhd., based in Ipoh, Malaysia.

“As a provider of cloud-native electrical CAD, with a proven digital go-to-market model, and over 300 customers across 50 countries, the Radica Software team are proud and excited to join Siemens,” said Thomas Yip, CEO, Radica Software. “The combination of the Electra Cloud technology from Radica, bolstered by Siemens' technology, development capacity and global reach, provides the opportunity to better serve the SMB electrical design market with the first fully cloud-native SaaS solution tailored towards individuals and small teams.”

“Siemens, with its broad and deep Capital product suite, is a leading solution provider in enterprise electrical design, especially in the automotive, aerospace and off-road vehicle industries,” said Chad Jackson, CEO and Chief Analyst, Lifecycle Insights. “Our research has shown that companies of many sizes are building out electrical design competencies to support the development of smart, connected products. With Capital Electra X, Siemens supports small and medium-sized businesses' efforts to incorporate electrical systems into their offerings with power and ease of access. More broadly, this acquisition bolsters the entire Capital suite, allowing Siemens to serve the right solution to those working on products of any complexity and in any stage of growth.”

The Capital Electra X offering is available immediately.

Siemens' acquisition of Radica Software closed on July 01, 2022. Terms of the transaction were not disclosed.

Siemens' Teamcenter now available on Google Cloud

27 October 2022

Siemens Digital Industries Software announced that the Teamcenter® software for Product Lifecycle Management (PLM) is now available on Google Cloud, enabling customers to implement one of the

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world's most widely used PLM systems more quickly, at lower total cost of ownership, and with the accessibility and scalability that today's forward-thinking manufacturers demand.

Teamcenter, from the Siemens Xcelerator portfolio of software and services, is a modern, adaptable PLM system that connects people and processes across functional silos with a digital thread for innovation. Teamcenter helps customers plan, develop and deliver products, while providing secure, controlled access to a company's most sensitive intellectual property throughout the lifecycle of the product, from conceptualization to end of life.

When implemented in an Infrastructure as a Service (IaaS) deployment model on Google Cloud, Teamcenter can help improve infrastructure performance, flexibly scale to meet project demands, and lower the total cost of ownership. Additionally, it enables customers to gain those benefits along with the speed, scale, security, and sustainability of Google Cloud. Bringing Siemens' Teamcenter to the cloud enables customers to more easily break down silos to combine the realms of Information Technology (IT) and Operational Technology (OT), enabling the fusion of data from the real world of automation with the digital world of information and engineering technology.

"Customers of all sizes and in all industries trust Teamcenter to help them develop and make the products of the future," said Joe Bohman, Senior Vice President Lifecycle Collaboration Software Siemens Digital Industries Software. "By bringing Teamcenter to Google Cloud, we are enabling more organizations to speed their adoption of PLM, getting them up, running, and productive with innovative capabilities more quickly."

"With Siemens' Teamcenter on Google Cloud, manufacturers will be able to combine Siemens' expertise and technical capabilities with Google Cloud's industry-leading security, compliance and manageability," said Hans Thalbauer, Managing Director, Supply Chain & Logistics Solutions, Google Cloud. "The collaboration will enable customers to respond quickly to changing business needs and easily scale-up to meet their PLM software demands."

In addition to the advantages of easy cloud access, Siemens has extended usability with preconfigured Teamcenter connector to Google Workspace. Docs, Sheets and Slides users can now manage these files in Teamcenter and edit in the browser.

Synopsys Advances Designs on TSMC N3E Process with Production-Proven EDA Flows and Broadest IP Portfolio for AI, Mobile and HPC Applications

24 October 2022

Building on a long-standing collaboration with TSMC to drive continued innovation on advanced process nodes, Synopsys, Inc. announced several key achievements on the TSMC N3E process technology. The Synopsys production-proven digital and custom design flows have achieved certification on the TSMC N3E process. In addition, the flows and Synopsys' broad Foundation and Interface IP portfolio have achieved multiple successful tapeouts on the TSMC N3E process, helping customers accelerate silicon success. The collaborative efforts on the advanced process technology also extend to analog design migration, AI-driven designs and physical verification scaling in the cloud.

"TSMC's and Synopsys' long history of collaboration to advance semiconductor innovation addresses the increasingly complex challenges of emerging applications," said Dan Kochpatcharin, Head of Design Infrastructure Management Division at TSMC. "Synopsys' latest achievements in EDA and IP on the TSMC N3E process technology provide our mutual customers with robust solutions that help them meet the stringent power, performance and area targets for their innovative designs."

"These recent achievements mark another significant milestone of the continuous, successful

collaboration between Synopsys and TSMC," said Sanjay Bali, vice president of Marketing and Strategy for the EDA Group at Synopsys. "Our substantial investment in providing certified EDA solutions and a silicon-proven IP portfolio for TSMC's most advanced processes gives designers a low-risk path to achieving their critical design requirements."

TSMC's N3E process extends its 3nm family with enhanced power, performance and yield, meeting the demands of workload-intensive applications like high-performance computing, AI and mobile. A joint effort on AI-driven design enablement with Synopsys DSO.ai™ technology and Synopsys Fusion Compiler has resulted in multiple validated N3E test cases with better PPA and faster design closure. Aside from the IP readiness and certified flows, Synopsys is working closely with TSMC to scale physical verification in the cloud, using the Synopsys IC Validator product for N3E on the Synopsys Cloud software-as-a-service offering. The effort highlights how access to unlimited CPU capacity in the cloud delivers faster physical verification iterations. The two companies are also enabling customers to seamlessly transition existing designs on earlier process nodes to the TSMC N3E process.

Synopsys, Ansys and Keysight Accelerate 5G/6G SoC Designs with New mmWave Reference Flow for TSMC Process Technology

26 October 2022

Addressing the stringent performance and power demands of 5G/6G SoCs, Synopsys, Inc., Ansys and Keysight Technologies, Inc. announced the availability of their new millimeter wave (mmWave) radio frequency (RF) design flow for TSMC's 16nm FinFET Compact (16FFC) technology. Mutual customers can take advantage of performance, power, cost and productivity benefits using the open, front-to-back design flow, which consists of modern, industry-leading tools for RFIC designs.

"Semiconductor industry megatrends for wireless communication are increasing RF and mmWave content in HPC, smartphone, automotive, and IoT applications," said Dan Kochpatcharin, Head of Design Infrastructure Management Division at TSMC. "Such complex designs require extensive ecosystem collaboration to help designers achieve silicon success with well-established solutions. The mmWave design reference flow that Synopsys, Ansys and Keysight have developed for TSMC's 16FFC process benefits from its superior performance and power consumption advantage for a tightly integrated solution that enhances productivity and quality-of-results for 5G/6G SoCs."

Why an Open, Modern Design Flow Is Needed for 5G/6G SoCs

Next-generation wireless communications systems must meet a range of requirements, including higher bandwidth, lower latency, better coverage and support for the proliferation of connected devices. High mmWave frequencies, the drive towards miniaturization and increasing design complexity are all creating new challenges for RFIC designers. At the same time, the market's older generation mmWave design solutions were not developed to address the needs of today's 5G/6G SoC designs and mmWave subsystem designs.

The new mmWave design reference flow from Synopsys, Ansys and Keysight was built for today's wireless communications requirements using TSMC's 16FFC technology. The flow takes full advantage of the process' ability to maximize die cost scaling by simultaneously incorporating optical shrink and process simplification. Key components of the flow include the Synopsys Custom Design Family, featuring the Synopsys PrimeSim™ continuum of circuit simulation solutions; multiphysics signoff analysis provided by Ansys Totem™ Power Integrity and Reliability Signoff, Ansys RaptorX™ Electromagnetic Modeling Family, Ansys Exalto™ Electromagnetic Modeling, and Ansys VeloceRF™ RF Device Synthesis; and Keysight Pathwave RFPro and RFIC Design (GoldenGate) solutions for

electromagnetic analysis and circuit simulation.

Industry Leaders Advance 5G/6G SoC Design

"Our modern, open custom design platform provides high-caliber RF and mmWave end-to-end solutions for the design of 5G/6G wireless communication systems, based on our strong partnerships with Ansys and Keysight, and in support of TSMC's Open Innovation Platform® (OIP)," said Aveek Sarkar, vice president of engineering for the Custom Design and Manufacturing Group at Synopsys. "Our mutual customers can use TSMC's 16nm, high-volume RF technology to streamline their circuit designs using the Synopsys Custom Design Family, featuring the RFIC SPICE simulator and the most productive layout capabilities, while leveraging Ansys' multi-physics expertise and Keysight's decades of experience pioneering RF design."

"Today's high-speed designs need to address an increasing range of multi-physics effects to optimize power, area, reliability and performance," said John Lee, vice president and general manager of the electronics, semiconductor, and optics business unit at Ansys. "Ansys is a strong supporter of open and extensible design platforms that enable our customers to use Ansys' signoff technology with all major best-in-class solutions. The collaborative mmWave design reference flow using TSMC's 16FFC technology is a successful example that streamlines access to advanced silicon design and manufacturing for 5G and wireless products by bringing together Synopsys' Custom Design Family with Keysight's premier RF design capabilities and Ansys' multiphysics signoff solutions for power integrity and electromagnetic analysis."

"The mmWave market forecast predicts strong growth over the next several years as 5G goes mainstream and we move into the early stages of 6G development," said Niels Faché, vice president and general manager of Pathwave Software Solutions at Keysight. "Our Pathwave RFPro electromagnetic and GoldenGate circuit simulation tools that have been enhanced to support TSMC process design kit operating directly in Synopsys' Custom Compiler environment provides our mutual customers a complete, fully integrated reference flow. Customers using our tools in this flow can confidently push the boundaries of mmWave design, knowing that actual on-wafer device measurements have confirmed the accuracy of simulation results for the important Error Vector Magnitude (EVM) figure of merit on the 28 GHz Power Amplifier (PA)."

Tecsys Launches Rapid Implementation for Order Management System; Signature to Deployment in Just Six Weeks

18 October 2022

Tecsys Inc., an industry-leading supply chain management software company, announces the launch of the industry's fastest path to unified commerce through its rapid implementation methodology for Omni™ OMS, its robust cloud-native order management system. The six-week implementation methodology takes advantage of out-of-the-box integrations, operational accelerators including education, training and templated customer/vendor collaboration.

Tecsys' Omni™ OMS is the all-in-one SaaS offering that enables unified commerce for some of the world's most preeminent brands. This software serves as the nucleus for omnichannel order orchestration and fulfillment capabilities such as in-store and curbside pickup, ship-from-store and ship-to-home, among other fulfillment channels, to create seamless buying experiences. As e-commerce and in-person retail continues to converge, brand owners are progressively adopting an end-to-end distribution management strategy that is capable of routing complex order management combinations. Tecsys' Omni™ OMS leverages industry-specific best practices so that it is now able to deliver this

value in a record six weeks.

“It’s pretty clear that siloed retail operations have an expiration date, and those that adopt a unified commerce approach have an edge on the digital orchestration holdouts,” says Adam Krajewski, vice president, Professional Services at Tecsys. “That said, we understand that digital transformation is, by its very nature, disruptive. We are very sensitive to that and have devised an implementation approach that delivers value faster and empowers the customer to operate at a more sophisticated level within a couple of months. When you buy Omni™ OMS, you’re buying into the depth of supply chain experience that Tecsys has around the world, attuned to the demands of modern retail.”

This rapid implementation methodology can be scaled according to customer requirements and resource allocation. The framework provides Tecsys customers with the confidence that their ecosystem can be up and running according to their business needs, taking advantage of each party’s expertise to accelerate value generation.

Omni™ OMS not only boasts the fastest implementation of its class of software, but it is also part of Tecsys’ solution suite, a portfolio squarely focused on supply chain execution. Advanced out-of-the-box functionality enables brand owners to gain a digital foothold of their logistics operation with a scalable, end-to-end unified commerce supply chain solution in quick order, and then grow that platform according to the scale and complexity that their evolving markets demand.

Trimble Access Software Version 2022.10: Improved Workflows, Collaboration & Control

28 October 2022

Trimble Access version 2022.10 software improves digital construction workflows, interoperability and delivers field-to-office enhancements to provide the flexibility to work the way you want in the formats you need for each project. To read the full details please go to the Trimble blog <https://geospatialresources.trimble.com/blog/what-s-new-in-trimble-access-2022-10-software>