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## CIMdata News

### ***CIMdata to Bring its Product Lifecycle Management Certificate Program to Northern California***

*CIMdata's education offerings will be available in Santa Clara in December 2022.*

CIMdata, Inc., the leading global strategic consulting and research firm focused on PLM and the digital transformation it enables, announces that it will offer its PLM Certificate Program in Santa Clara, CA, USA, from 5-9 December 2022.

This program prepares PLM professionals to address the challenges commonly faced in PLM strategy development and implementation, allowing them to help their organizations realize the benefits of PLM and the digital transformation it enables. The assessment-based program includes a personalized classroom experience, individual and team-based exercises, and evaluations of achievement. A team of CIMdata experts facilitates the program. Successful completion of the program and assessments leads to a Certificate of PLM Leadership.

Drawing on CIMdata's 40 years of experience guiding industrial companies in successfully defining and implementing best-in-class PLM strategies and tactics, the program is appropriate for those embarking on a PLM journey and those already implementing PLM.

According to CIMdata's president and CEO, Peter Bilello, "For the past two years, we have pivoted our in-person classes to a virtual platform, which the PLM community has received well. The time is right to return to an in-person education model that allows for essential networking between attendees and CIMdata faculty members."

Classes are available in a 3- or 5-day format. CIMdata's one-day Executive Short Course and two-day PLM Fundamentals for Solution Providers Short Course will also be offered.

For more information on CIMdata's PLM Certificate Program and short courses, visit our website at <https://www.cimdata.com/en/education/plm-certificate-program>.

### ***Key Sponsors for PLM Road Map and PDT EMEA Announced***

4 October 2022

*Leading solution providers to sponsor product lifecycle management (PLM) conference.*

CIMdata, Inc. and Eurostep AB announce the sponsors for the upcoming PLM Road Map and PDT EMEA 2022 event. The participating sponsors are Configit, DXP Services, ESI, Global Product Data Interoperability Summit, PDSVision, The Reuse Company, SAP, Share PLM, TECHNIA, Variantum, and XPLM. The event will take place at the Lindholmen Conference, Gothenburg, Sweden, on 18 & 19 October.

"We are excited to have these key solution providers choose to sponsor our PLM Road Map and PDT conference. In fact, sponsorship opportunities are sold out," stated Cheryl Peck, CIMdata's Director of Marketing. "We are excited to be back in person in the EMEA region and look forward to creating an environment where open collaboration and knowledge transfer can occur between all members of the PLM ecosystem." As part of the PLM Road Map/PDT experience, sponsors participate in an online PLM Collaboration Café™, where they showcase a selection of their solutions. For more information on the PLM Collaboration Café, visit <https://www.cimdata.com/en/education/plm-conferences/plmrm-pdt-emea-2022/sponsors>.

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PLM Road Map and PDT EMEA 2022 is a highly relevant event for PLM industry leaders and PLM professionals. It offers independent education and a collaborative networking environment where ideas, trends, experiences, and relationships critical to the industry germinate and take root.

For more details on the schedule and event registration, please visit <https://www.cimdata.com/en/education/plm-conferences/plmrm-pdt-emea-2022>.

## ***Siemens Support for Resilient Supply Chains - a CIMdata Commentary***

5 October 2022

*Key takeaways:*

- Issues caused by the pandemic, trade relationships, regulatory pressures, Environmental, Sustainability, and Governance (ESG), and economic circumstances have transformed the topic of supply chain from a manufacturing strategy element to a hot C-level business strategy issue.
- Digital transformation leaders need to balance strategic goals of cost, quality, and performance with a wide variety of risks as purchased items are acquired and incorporated into finished products.
- Digital logistics applies the use of digital technologies to improve supply chain efficiency, resiliency, and ESG support.
- Siemens uses the digital logistics capabilities of the Xcelerator cloud architecture to support digital twin use cases in product design, production, and operation to ensure required materials get where they need to be at the right time while optimizing cost and speed with transparency and minimum risk.

### Introduction

A common headline and topic of conversation over the past year is “Supply Chain Issue.” Manufacturers have always had supply chains, but consumers have learned about the consequences of supply chain issues over the past two or so years due to the scale of recent disruptions.<sup>[1]</sup>

A supply chain is a business strategy to get materials, components, and products from their point of origin to their point of use. An efficient supply chain approach helps companies improve their financial and time to market performance. Companies focus on their core supply chain processes and technologies, perfect them, and take advantage of partner companies (suppliers) working in a similar way. This operational method allows maximum investment to go into perfecting each supply chain participant’s core processes and products leading to higher quality, lower cost, and more innovative products.

As a key component of this strategy, companies have added another core process, supply chain management (including logistics). Product developers need to specify materials and components that meet their requirements and purchasing staff must find suppliers that can deliver the specified items on time, reliably, with the required quality. While conceptually simple, the complexity is in the details.

Each supply chain is a part of the global manufacturing economy that can be thought of as a massive, distributed network. Every company develops its unique supply chain (or has one emerge) with preferred suppliers that enable delivery of their products or services to the market. Each company’s supply chain is a subset of the global network.

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In general, supply chains are amazing. For example, the automotive industry has perhaps the largest, most complex supply chain in existence. At each automotive OEM thousands of suppliers deliver material, components, and sub-assemblies in color sequence, just-in-time to automotive assembly lines at globally distributed facilities every day using ships, rail, and trucking companies. Completed vehicles are distributed to dealers using similar transport options. Keeping this network running smoothly takes enormous effort.

## Coping When Things Go Wrong

The goal of supply chain organizations is to design a system that is robust enough to ensure uninterrupted production, yet reliably deliver products as needed at specified cost and quality. This strategy has a well proven business value over the years. While individual suppliers occasionally have issues and miss shipments, consumers have rarely been denied the products they want. The global disruptions that have hit supply chains over the past two or three years are unprecedented. The pandemic, the war in The Ukraine, and semiconductor shortages have each caused massive disruptions that have had measurable global economic impact.

In researching supply chain issues, three interesting examples were recently reviewed. A manufacturer who distributes in the local East European region and has a huge distribution warehouse in The Ukraine. In February the war broke, and so that warehouse is no longer accessible. The manufacturer must now scramble to find the best alternative distribution centers. The supply chain team used Microsoft Excel, the business Swiss army knife, to understand and evaluate the capacity of the distribution centers that are available locally and used their experience and expertise to determine an alternate solution. Imagine if, rather than crunching static data of marginal quality in Excel, simulation models of the distribution network that included the warehouse in The Ukraine or any other local facilities that were available, could be used to compare pallet handling capacity of the warehouses and run various real-time, what-if scenarios.

Within PLM we don't often get directly involved in demand planning, but demand is an input to manufacturing engineering and for people designing production lines, factories, and supply chains. Imagine a world where you can launch a predictive demand planning solution to better forecast demands of your customers. You are then able to simulate production according to this demand, and to ensure the availability of all necessary materials, i.e., what do we have in inventory available now (not reserved), what volumes are in-transit and will arrive on time, and what can we order at what time intervals—while looking into the future and checking against inventory levels, on-hand or in-transit, and then checking options to get the materials on time into the plant, either by standard replenishment orders or by sharing an express volume (via air freight to start production and later receiving the balance shipment as replenishment volumes by sea freight at lower cost).

Finally, imagine a world where in day-to-day operations of production we are able to, with the support of AI and other leading-edge technologies, determine the best production line configuration and sequences in real-time and to simulate new planning if any kind of changes or disruptions happen. Also, if materials are in-transit, alerts will show that a shipment will not arrive on time (as expected). A comprehensive digital twin involving supply chain simulation can help identify options to mitigate these kinds of problems. For example, if a specific part currently in transit on a ship is late, how can we get some parts into the plant on time (again, some air freight shipments, referral shipments from another plant, etc.)?

While types of disruption and potential remedies are virtually infinite, supply chain processes consist of several well-known elements that must be addressed to build and maintain the proper foundation required to address potential issues.

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## Supply Chain Processes

Proper architecture, design, and implementation of supply chain processes is critical to providing supply chain professionals with the visibility they need to address disruptions. Key elements of a supply chain strategy include:

- **Supplier management**—The overall process used to manage data and processes related to the interaction between an organization and its suppliers, which can include requests for proposal, information, or quotation (RFP, RFI, RFQ), supplier qualification, supplier quality management functions, overall supplier performance, and transactional data.
- **Sourcing and redundancy**—The process of managing RFI/RFP/RFQ, early sourcing, dual/multi-site sourcing, and strategic sourcing.
- **Quality**—The processes, such as audits, that ensure the supplier complies with regulatory and specified requirements, provides tracking, reporting, and traceability, and root cause analysis and corrective and preventative actions when quality issues occur.
- **Logistics**—Processes that enable a set of functions that determine an optimized distribution of material and product based on factors such as transportation capacity, warehouse capacity, transportation times, etc.
- **Integration**—This process includes the enablement of electronic data sharing, so information flows are synchronized to eliminate obstacles in information sharing in support of improved decision making while respecting data security.
- **Reporting**—The process of capturing, analyzing, and delivering information to stakeholders to enable the organization to make better supply chain-related business decisions more quickly.

## Digital Logistics

As with all aspects of modern business, logistics is being digitalized, connected to digital threads, and even incorporated into digital twin strategies. Customer orders need to be delivered by the best (e.g., fastest, most efficient, and cost effective) means possible, and can require using multiple modes of transportation—air, sea, rail, and a variety of trucking and local delivery options are used depending on product size, quantity, frequency, perishability, and many other parameters. Planning software is often used to guide companies in the best delivery strategy for a given set of parameters.

Once products are loaded for their journey from their point of manufacture or distribution center, customers and suppliers want to keep track of shipments so they are not surprised by delays or other issues. To carry out this task, manufacturers and shippers are adopting RFID and IoT to provide data on what is really happening within the distribution process. Connecting this data into the extended enterprise digital thread enables fast reaction and even proactive activities to ensure delivery happens as planned.

One area in which CIMdata has seen a lot of activity is the creation of digital twins of transportation systems and important devices such as tractor-trailers, rail cars, and pallets. Connecting these devices using telematics and IoT solutions provides shippers and manufacturers with the real-time data needed to manage the logistical flow of products along the distribution path. Beyond just reporting status, sensors on products or packaging can capture critical data such as exposure to environmental conditions, such as extreme temperature or a shock event (pallet drop, etc.), that could cause damage. Data from logistics operations enables the supply chain team to populate digital twins (sometimes called Supply Chain Control Tower) that can be used to predict the effects of supply chain changes or risks. Using this type of scenario modeling enables the design of more robust logistical systems.

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## Siemens Digital Logistics Solution

The Xcelerator portfolio from Siemens includes digital logistics capabilities via the AX4 and SCS solution brands. By connecting design, manufacturing and distribution, companies can enable greater transparency across their supply chains. Design and manufacturing decisions can be improved via visibility into logistics so that better part and sub-assembly decisions are made, minimizing cost and risk. By providing easy access to data in Xcelerator, companies can run a variety of scenarios to ensure optimal supply chain decisions are made.

ESG, the requirement to meeting customer expectations for ethical and sustainable operations, is a critical and growing necessity in supply chain reporting. For many products, the distribution process is a significant element of the ESG score. Decisions made up front during design and planning can impact logistics and therefore ESG scores. For example, material choice, supplier location, kitting concepts, and packaging affect weight and density (e.g., how many units fit on a pallet), thus impacting CO2 generation. Being able to run transportation scenarios during product development improves engineering design and manufacturing process decisions that impact transportation and distribution requirements. Beyond ESG, cost is a critical parameter to be minimized and the ability to run transportation scenarios during planning enables cost avoidance and overall execution excellence.

Perhaps the most interesting scenario addressable by digital logistics is disruption. Once an end-to-end plan is being executed, what happens when something goes wrong? Being able to model alternatives and avoid a trial-and-error approach is a dramatically more efficient method to identify and addressing disruptions. With data managed by Xcelerator's cloud architecture, it becomes possible to try out many more alternatives such as "can the product be manufactured differently (or in a different location) so it can take advantage of an alternative supplier or transportation route?"

Enterprises want end-to-end logistics processes with full transparency on cost, lead time, and CO2 emissions to enable fact-based decisions before committing to freight routes. Connecting to the digital thread to access up-to-date product and manufacturing information improves logistics decision quality. RFID and other IoT sensors (e.g., temperature, acceleration) supplies data during transportation to the manufacturer or end user that can be critical to the performance or quality of products. If a product was dropped or exposed to a temperature extreme, it may not perform as it is supposed to. Reporting this data can close the loop and kick off proper contingency activities to ensure manufacturer or end user satisfaction.

## Conclusion

Supply chains are a critical element of most businesses. Ensuring materials, parts, sub-assemblies, and finished products move across the lifecycle efficiently while providing the needed transparency for all relevant decisions (product performance, cost, delivery, quality, regulatory, ESG, etc.) is a requirement in today's competitive world.

Beyond the basic requirements, supply chains must be resilient, that is, they must withstand and work around major disruptions. Having a digital logistics solution linked to the rest of a digital enterprise connects an important element to the end-to-end digital thread. When a disruption happens, there are usually multiple solutions with different cost, quality, and timing impacts. Having the tools to provide high quality logistics information to decision makers is critical to solving the issues.

The digital logistics solutions as part of the Siemens Xcelerator portfolio helps enable proper logistics planning and execution and is fully connected to the digital thread created by Xcelerator's cloud architecture. Beyond planning, its modeling capabilities provide the tools needed to address supply chain disruptions helping logistics professionals react efficiently and effectively. Companies that need to

incorporate efficient logistics into their digital thread to support transportation planning and execution should review the digital logistics solutions from Siemens.

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

## Acquisitions

### ***Accenture Acquires Blackcomb Consultants to Help Insurance Carriers Accelerate Digital Transformation in the Cloud***

4 October 2022

Accenture has acquired Blackcomb Consultants, a leading independent Guidewire partner in North America. Terms of the transaction were not disclosed.

The acquisition enhances Accenture’s ability to deliver Guidewire solutions to insurers globally to help them become “cloud-first” businesses. Guidewire’s end-to-end technology platform combines digital, core analytics and artificial intelligence capabilities across the underwriting, billing, claims and customer relationship management functions, helping property and casualty (P&C) insurers reimagine their operations in the cloud.

Headquartered in Chicago, Illinois, Blackcomb Consultants is a specialist technology services provider to P&C insurance carriers, helping them improve operational agility and get their products and services to market more quickly. A Guidewire ‘Advantage’ partner, Blackcomb Consultants’ offerings include policy administration system implementations and upgrades, production support, cloud-hosted services, performance-improvement and organizational-change services. Blackcomb Consultants also has specialized capabilities in delivering Guidewire applications and services on Amazon Web Services and Microsoft Azure. Its 158 employees will join Accenture’s Industry & Function Platforms Group, where they will be focused on Guidewire project delivery.

“This acquisition strengthens our ability to help insurance carriers use technologies like artificial intelligence and analytics to improve productivity and provide hyper personalized offerings to their customers,” said John Koepke, Accenture’s Technology lead for Insurance in North America.

Jim Bramblet, who leads Accenture’s Insurance industry group in North America, added, “Blackcomb Consultants’ highly regarded Guidewire capabilities will allow us to deliver even greater agility and speed to market for our clients.”

Victor Voss, a co-founder of Blackcomb Consultants, said, “Amid market disruption and heightened consumer expectations, insurers are turning to platforms such as Guidewire to drive strategic digital and business transformation. Accenture and Blackcomb Consultants share a vision focused on delivering innovation to P&C carriers of all sizes, and by joining Accenture, we will be able to scale and expand our solutions for insurers worldwide, helping them create a sustained competitive advantage.”

### ***Accenture Completes Acquisition of Stellantis’ World Class Manufacturing Training & Consulting Business***

3 October 2022

Accenture has completed its acquisition of Stellantis’ World Class Manufacturing Training & Consulting business, a center of excellence that supports process optimization in manufacturing and the supply chain. Financial terms of the transaction previously announced on September 13, were not

disclosed.

The acquisition allows Accenture to integrate the World Class Manufacturing (WCM) methodology in its solutions that help clients transform their manufacturing process and supply chain networks to be more efficient, sustainable and resilient. Additionally, it brings WCM's training solutions for increasing the manufacturing skills of client's teams and building a culture of continuous improvement at plants

This acquisition is part of an overall growth strategy to expand critical skills and in rapidly expanding key markets, to help clients generate 360° value across their businesses.

## ***Cadmatic acquires Italian engineering software company CLA***

28 September 2022

*Cadmatic has acquired the entire share capital and product portfolio of Italian software company Computer Line Associates (CLA). The acquisition supports Cadmatic's growth goals, strengthens its market position in the process and power industries, and adds new solutions to the marine and building industries. CLA's SaaS-based material and construction management software and engineering data management solutions complement Cadmatic's CAD applications and information management solutions and will be offered as part of Cadmatic's integrated product offering.*

The acquisition is a further step in fulfilling Cadmatic's strong growth strategy, which sees the company more than tripling its size in coming years.

EPC contractors and plant owner-operators use CLA's software to manage piping materials and piping supports, construction sites, multidisciplinary engineering data, online tenders, project planning and plant welding. CLA was established in 2001 and employs 22 staff at its office in Piacenza, 70 km south of Milan.

*"CLA is a perfect strategic fit for us. They have impressive references, especially in the key area of multinational EPC companies and our offerings have no overlapping functionalities. By integrating CLA's materials and construction management products with Cadmatic's design, engineering, and information management solutions, we can offer integrated and advanced functionality and a one-stop-shop to benefit our customers from design to construction and beyond. In addition to the products and customer base, we also gain access to the extensive material and construction management knowledge they have developed over the years," says Cadmatic CEO Jukka Rantala.*

CLA COO and deputy CEO Gian Mario Tagliaretti also sees the acquisition as a win-win situation.

*"When you combine Cadmatic and CLA, you get something greater than the sum of its parts. Cadmatic has traditionally been strong in plant, marine and building design, CLA have general engineering data management applications. Together we form a comprehensive package. CLA have developed a very strong market position in Italy-based multinational industrial companies, but Cadmatic's large global network means that the integrated solution can be more successful internationally, we make the perfect team," says Tagliaretti.*

Cadmatic's growth strategy envisages a strong position in the European and Indian process and power industries, in the global marine business, and in the locally growing building industry. CLA is the fourth significant technology-based acquisition for Cadmatic in recent years. According to Rantala, organic growth and a high level of in-house R&D and competence, as well as mergers and acquisitions will assist the company in creating top value for its existing and new customers.

*"Last year, our Process and Industry segment grew by over 30%. We are growing organically, but strategic mergers and acquisitions, such as with CLA, are also a cornerstone of our strategy. We are*

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*continuously looking for companies that are good strategic fits for our offering and customers”.*

Rantala says that the acquisition is strategy-driven and the result of Cadmatic listening to its customers, being good partners, and providing customers with the software functionality they request.

*“When we see a clear customer need, we either develop the functionalities, products and services ourselves or look at acquiring it outside the company,” Rantala adds.*

## ***Idox announces acquisition of LandHawk: a GIS software and data business***

3 October 2022

Idox is pleased to announce the acquisition of LandHawk Software Services Limited, a UK-based, cloud-native land mapping software and geospatial information services (GIS) data business.

The acquisition of LandHawk brings impressive GIS-based technology as well as great skills and experience to build upon our core strengths as a growing and expanding player in the PlanTech and PropTech markets.

Together with recent acquisitions of Aligned Assets, thinkWhere and ExeGesIS, this further acquisition puts Idox in a very strong position to enhance its GIS software, cloud and data capabilities.

### **LandHawk**

Based in the UK, LandHawk allows clients to identify off-market land opportunities effectively and efficiently by bringing together geospatial intelligence in a user-friendly cloud-native software solution. Whilst allowing clients to complete development feasibility studies, LandHawk also provides GIS data directly to clients for use in their own applications, alongside a managed service to support clients in sourcing off-market land.

LandHawk’s client base provides new market opportunities for Idox and is a complimentary extension of its existing local authority land and property base. The business was established in early 2020 by GIS specialists and has made good progress in the renewable energy and civil engineering sectors.

Furthermore, LandHawk’s market offerings add to Idox’s existing GIS offerings across planning, address management, GIS data management, and management of public rights of way, historical sites, and environmentally protected areas.

“We have been in dialogue with LandHawk over the past 12 months and have been impressed with the quality of their software, market offerings and people. We are excited by the opportunity to combine LandHawk’s impressive technology with Idox’s deep expertise in UK Land & Property and GIS data. We collectively see a strong proposition for growth into commercial and public sector use-cases across land sourcing, assessment and management.

“The integration of LandHawk, coupled with the acquisitions of Aligned Assets, thinkWhere and ExeGesIS, places Idox in a strong position to capitalise on the growth of the UK’s location data market and lead the market in software solutions. This transaction will provide LandHawk with immediate support to its business and products to continue to expand its offerings and grow its customer base across both commercial and local authority markets.”

## ***Rockwell Automation Announces Intent to Acquire CUBIC***

3 October 2022

Rockwell Automation, Inc., the world’s largest company dedicated to industrial automation and digital transformation, announced that it has signed a definitive agreement to acquire CUBIC, a company that specializes in modular systems for the construction of electrical panels. CUBIC, founded in 1973, serves

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fast-growing industries, such as renewable energy, data centers, and infrastructure, and is headquartered in Brønderslev, Denmark.

CUBIC's efficient and flexible modular systems combined with Rockwell's intelligent devices and industry expertise will benefit customers by offering faster time to market, enabling broader plant-wide applications for intelligent motor control, and generating smart data to increase sustainability and productivity.

CUBIC's established partner model will allow Rockwell to build an expanded Partner Network for intelligent motor control offerings in Asia, Europe, and Latin America. The company will bring new customers and partners in hybrid and process industries. Additionally, CUBIC will broaden Rockwell's market access in renewable energy and data center solutions.

"CUBIC's innovative motor control solutions strengthen our portfolio of leading intelligent motor control technologies," said Bob Buttermore, vice president and general manager of Rockwell's Power Control Business. "We are pleased to welcome a talented team with specialized expertise in structural design, power systems, and global standards."

"Joining Rockwell will enable us to expand our relationships and accelerate our global growth," said Jacob Moller Knudsen, CEO of CUBIC. "This is a perfect match that will allow us to offer our customers the best solutions going forward."

At close, CUBIC will report to Rockwell's Power Control Business in the Intelligent Devices operating segment.

CUBIC is expected to report more than \$75 million in sales in fiscal year 2022, which ended Sept. 30. The transaction is subject to customary regulatory approval and is expected to close by the end of 2022.

## Company News

### ***AECOM appoints new leadership for its U.S. East & Latin America and U.S. West regions***

3 October 2022

AECOM, the world's trusted infrastructure consulting firm, announced it has appointed Bane Gaiser as regional chief executive of its U.S. East & Latin America business and Matthew Crane as regional chief executive of its U.S. West business.

With decades of industry experience, both Mr. Gaiser and Mr. Crane will be responsible for delivering on the Company's strategy, overseeing day-to-day operations and driving long-term growth for their respective regions.

"As the United States enters an infrastructure renaissance driven by the Infrastructure Investment and Jobs Act and greater long-term funding certainty, we are excited for Bane and Matt to take on these new leadership positions and help shape the next generation of infrastructure," said Lara Poloni, AECOM's president. "Our public and private sector clients are setting increasingly ambitious agendas to make a positive impact in their communities, and the combination of Bane and Matt's depth of experience with AECOM's leading global expertise positions us to deliver on our clients' most complex project demands."

Mr. Gaiser has nearly 30 years of experience in the industry, including more than eight years with AECOM. Most recently, he served as managing principal and senior vice president for the Company's U.S. West region Buildings + Places business leading the region's architecture, engineering, interiors,

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planning and consulting strategy practices.

Mr. Crane has served as the chief operating officer for AECOM's U.S. West region for the past two years following an additional two years as the chief operating officer of the Company's previous U.S. Central region. He brings more than 20 years of industry experience to his new role with a proven track-record of driving operational excellence.

Mr. Gaiser's and Mr. Crane's roles are effective immediately.

## ***Announcement of new Executive Leadership Team (NTT DATA, Inc.)***

3 October 2022

NTT DATA, Inc.'s new executive leadership team decided by resolution of the Board of Directors on October 1, 2022 is as follows:

New Structure of Execution

<b>Organizational Responsibilities</b>	<b>Name</b>	<b>Position(s)</b>
CEO (Chief Executive Officer)	Kazuhiro Nishihata	Representative Director, President
COO (Chief Operating Officer) CTO (Chief Transformation Officer)	Tsunehisa Okuno	Representative Director, Senior Executive Vice President
CBO (Chief Business Officer)	Abhijit Dubey* <sup>1</sup>	NTT Ltd. CEO Senior Vice President
—	Bob Pryor* <sup>1</sup>	NTT DATA Services CEO Senior Vice President
—	Friedrich Hoderlein Cabistany* <sup>1</sup>	NTT DATA Europe & Latam CEO Senior Vice President
—	Norbert Rotter* <sup>1</sup>	NTT DATA Business Solutions Senior Vice President
CAO (Chief Administration Officer) CRO (Chief Risk Officer)	Shuichi Sasakura	Senior Executive Vice President
CDSO (Chief Digital Strategy Officer)	Hideki Kurihara	Executive Vice President

## CIMdata PLM Industry Summary

CFO (Chief Financial Officer)	Chieri Kimura	Senior Vice President
CDAO (Chief Digital Assets Officer)	Noriyuki Kaya	Senior Vice President

- \*1Newly appointed as Senior Vice President

### New Structure of Board of Directors

Position(s)	Name
Representative Director, President and Chief Executive Officer	Kazuhiro Nishihata
Representative Director, Senior Executive Vice President and Chief Operating Officer and Chief Transformation Officer	Tsunehisa Okuno
Director	Patrizio Mapelli
Director	Marvin Mouchawar
Director	Robb Rasmussen
Director	Hideaki Ozaki
Director	Vab Goel
Director* <sup>2</sup>	Shinsuke Sugiyama
Director* <sup>2</sup>	Alejandro Ferreiro Yazigi
Company Auditor	Katsumi Nakata
Company Auditor	Kanae Takahashi
Company Auditor	Tomoko Hoshi

- \*2Shinsuke Sugiyama and Alejandro Ferreiro Yazigi are outside directors.

## ***David Mills to be appointed new Chief Financial Officer for Hexagon***

7 October 2022

Hexagon AB, a global leader in digital reality solutions, combining sensors, software and autonomous technologies, announced that David Mills will succeed Robert Belkic as Chief Financial Officer (CFO) for Hexagon AB, effective 1 July 2023.

**David Mills**, currently CFO of Hexagon's Manufacturing Intelligence (MI) division, will be appointed CFO for Hexagon AB as of 1 July 2023. In his role, David will lead Hexagon's finance functions, supporting Hexagon's newly appointed President and CEO Paolo Guglielmini. David has worked closely with Paolo since 2010, nurturing MI's organic growth and financial development, driving and integrating multiple successful acquisitions and consequently more than tripling the business in size during his CFO tenure.

David holds a Bachelor of Science in Economics and Accounting from the University of Hull, and as a Chartered Management Accountant has focused on complex global business reporting systems, performance analysis and ultimately delivering improvement in various industry sectors, across manufacturing, services and software. David has served Hexagon in multiple finance leadership roles since joining Hexagon in 1999, driving and developing improved financial performance across devices and software portfolios, proactively supporting Hexagon's M&A activities and leading and developing global teams.

David will continue in his current role as CFO for the MI division until a successor has been appointed.

**Charlotte Anderberg**, currently Head of Group Financial reporting, will become VP of Group Finance in recognition of her expertise and pivotal role in the performance and future evolution of Hexagon's finance organisation.

**Robert Belkic**, currently Hexagon's CFO and EVP, will leave Hexagon as of 30 June 2023. He will continue in his current role, reporting directly to Hexagon's President and CEO and remain a member of the executive management team until then.

"On behalf of the Board, we thank Robert Belkic for his impactful service through such a successful and defining period of growth since joining Hexagon in 2009", says Hexagon's President and CEO Ola Rollén.

## ***EAGLE POINT SOFTWARE PARTNERS WITH THE DIATEC GROUP***

29 September 2022

Eagle Point Software has announced a partnership with The Diatec Group, Ireland's largest Autodesk Platinum Partner and an Autodesk Elite Construction Partner that delivers solutions to the architecture, engineering, and construction (AEC) space.

"We are very excited to partner with Diatec and expand our reach in Europe," shared John Biver, President and CEO of Eagle Point Software. "Diatec is both a strong AEC technology partner and is also recognized as a leading provider of a wide range of solutions for thousands of Autodesk users. We fully expect that together Eagle Point and Diatec will drive the productivity and efficiency across key industries throughout Ireland."

Pinnacle Series by Eagle Point Software is an AEC & manufacturing e-learning solution that features a comprehensive library of videos, documents, and other manufacturing development resources that enable long-term employee training, on-demand problem-solving, and digital transformation.

“Pinnacle Series is an important tool for our customers to effectively upskill and empower staff through online learning and on-demand problem-solving. We are excited for this partnership, as it will integrate perfectly with our vision of continually evaluating and providing our clients with best-in-class services,” shared David Harpur, Managing Director of Diatec.

## ***ESTECO supports smart bees to pollinate the planet***

30 September 2022

**We’re excited to officially launch our first project with 3Bee, an Italian agri-tech startup developing intelligent monitoring and diagnostic systems for bee health.**

As a company, we want to be more respectful of the planet in all our activities: through our technology we help companies save time and money and optimize processes, but we also want to promote more and more corporate social responsibility initiatives in our day-to-day lives for and with our employees.

Because we care about sustainability and we know that one out of every three mouthfuls of our food depends on pollinators such as bees, **we have adopted a smart beehive called Luna.**

Through a unique technology developed by 3Bee, we can constantly and comprehensively monitor our hive. The beekeeper too can benefit from it to optimize production, save time and treat the bees by preventing problems and diseases.

We think global but we also want to act local: therefore we chose a business located near us. **Erikin vrt - Il giardino di Erika is our beekeeper in San Dorligo della Valle, nearby ESTECO Headquarters in Trieste.** In her garden, she cultivates medicinal herbs, which are extremely important for bees' health and good for local biodiversity. We’ll be in touch with her to know if our bees are in good health.

From a technological point of view, through an app directly linked to our bees, all our employees can have access to some data regarding general conditions in our hive like internal and external temperature, bees sound and weather conditions in order to be sure that they’re feeling well and they can produce honey.

A regular report sent by 3Bee will tell us a bit more about Erika’s activities in our Luna Beehive, keep us informed about potential threats and positive results thanks to the use of the technology installed, and by discovering more about this wonderful and interesting world.

We're looking forward to the happy ending after the first year of adoption: a delicious taste of our honey and more insights on the use of this sustainable technology.

## ***HCLTech And Google Cloud Expand Strategic Partnership To Accelerate Digital Transformation For Enterprises***

6 October 2022

HCLTech, a leading global technology company, and Google Cloud announced a significant expansion of their long-standing partnership, with new capabilities and service offerings to expedite enterprise migration to Google Cloud.

HCLTech, a strategic partner of Google Cloud, formed the dedicated Google Cloud Ecosystem Unit in 2019 to accelerate enterprise cloud adoption by helping enterprise customers plan and execute large-scale migrations. The two companies are now expanding their partnership to significantly scale HCLTech’s capacity to support digital transformation and deliver critical migration, legacy system modernizations and professional services for enterprise customers.

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The partnership will enable two new offerings to help enterprise customers migrate to Google Cloud more quickly and gain value from their cloud investments sooner. The new Google Cloud Global Migration and Modernization Factory—within HCLTech Google Cloud Ecosystem Unit—will combine experts, unique IP, migration frameworks and automation tools to help businesses bring critical workloads into Google Cloud faster, while enhancing their cybersecurity posture and ensuring compliance with evolving regulations. In addition, a new, dedicated HCLTech Cloud Acceleration Team will further speed customers’ time-to-value with Google Cloud products and solutions by providing architectural expertise and unlocking powerful insights from enterprise data.

HCLTech will train up to 18,000 technology and consulting professionals on Google Cloud, significantly increasing its ability to accelerate digital transformations globally with Google Cloud infrastructure, products and solutions.

“The majority of enterprises today are investing aggressively in cloud technology to build responsive, scalable and resilient digital-first business models. Our collaboration with Google Cloud has helped us address this market with compelling joint propositions. I am excited to see this partnership further expand to offer accelerated solutions for our enterprise clients to significantly scale their digital transformation enabled by cloud,” said C Vijayakumar, CEO & Managing Director, HCLTech.

“Many of the world’s largest enterprises are turning to Google Cloud to modernize their core infrastructures, power their digital transformations and launch entirely new digital businesses,” said Thomas Kurian, CEO at Google Cloud. “This announcement represents a significant commitment from both Google Cloud and HCLTech to provide enterprises with the services, industry expertise and technologies they need to accelerate their cloud agendas and to create business value from Google Cloud’s capabilities in artificial intelligence, machine learning, and analytics.”

Google Cloud will continue to utilize HCLTech expertise as part of its push to deliver critical migration and managed services for enterprise customers. The partnership has already supported digital transformations at a number of the world’s largest and most impactful organizations. With the expanded Google Cloud Ecosystem Unit, HCLTech will deliver new, domain-led services offerings harnessing CloudSMART—a portfolio of industry-focused offerings for Google and Cloud Native Labs.

HCLTech will also take a Google Cloud-first approach for data, analytics and artificial intelligence (AI) projects in key industry segments including retail and consumer packaged goods (CPGs), financial services, and healthcare and life sciences. These segments reflect the growing customer demand for Google Cloud products and capabilities in these critical areas. The company offers a cloud-focused ecosystem and product innovation strategy that is uniquely positioned to help customers actualize their cloud agendas and evolve into digital enterprises.

## ***Honeywell Names Vice President and Treasurer***

30 September 2022

Honeywell International Inc. (the “Company”) announced that the Company’s Board of Directors has appointed Thilo Huber as the Company’s Vice President and Treasurer, effective October 1, 2022.

Huber has been the Company’s Assistant Treasurer since October 28, 2019. He joined the Company from UniCredit Bank AG, where he served as a Director in the bank’s Corporate and Investment Banking division. Huber holds a BA in Management and Controlling from Ludwigshafen University, Germany, and is an MBA candidate in Columbia Business School’s executive program.

The Company also announced that Jim Colby, the Company’s current Vice President and Treasurer, has communicated his intention to retire from the Company, effective September 30, 2022.

## ***IFS appoints John Walsh as non-executive Board director***

4 October 2022

IFS, the global cloud enterprise applications provider, announces that John Walsh has joined its Board as a non-executive director. Following consecutive years of double-digit growth, the appointment of Walsh indicates IFS's focus on accelerating its growth plans. As a seasoned technology executive focused on creating value for customers, Walsh will bring to IFS expertise acquired over years of working with some of the world's leading and most innovative companies.

John Walsh is currently Accenture's chief strategic accounts and global sales officer, where he is responsible for creating value and driving sales growth for the company. He is also a member of Accenture's Global Management Committee. Prior to that, Walsh served as Group Chief Executive of Accenture's Communications, Media & Technology (CMT) group. Through his 35-year career at Accenture, Walsh previously managed the company's North America P&L for the CMT sector, establishing one of Accenture's largest and most dynamic practices.

Commenting on his appointment, **Walsh said**, "IFS has successfully evolved from an on-prem solutions provider to a fully fledged SaaS vendor, transforming itself at great speed and without compromising on customer experience. IFS has demonstrated that it is not only able to innovate with the products and services it brings to market but also continue to deliver on its growth plans year after year. IFS is on an exciting trajectory and I am pleased to join and bring my own sales leadership and expertise to help execute on its longer term growth strategies."

IFS CEO **Darren Roos commented**: "IFS's performance in recent years is the result of our unwavering commitment to customer experience and delivering value; with a recent valuation of \$10bn USD, it is clear we have achieved a great deal already." Roos Continued: "IFS has ambitious plans for further growth and John's track record and expertise are well matched to support these plans. His career has been centered on creating value for customers and this is very well aligned to IFS's mantra of delivering our Moment of Service. As IFS continues on its transformation and growth journey we are delighted by John's appointment and look forward to working with him."

The appointment is effective immediately and brings the current number of non-executive directors at IFS to seven.

## ***L&T Technology Services joins hands with Qualcomm to provide solutions for the Global 5G Private Network Industry***

30 September 2022

L&T Technology Services Limited, a leading global pure-play engineering services company, announced that it is collaborating with Qualcomm Technologies, Inc. to deploy end-to-end solutions for the global 5G Private Network Industry utilizing their combined core expertise in the Hi-Tech & Telecommunication domain.

LTTS and Qualcomm Technologies will bring together core competencies in telecommunication solutions and services for the benefit of end-customers in the manufacturing and warehousing/ logistics sector. As the demand for a connected world continues to grow rapidly, LTTS engineers are leveraging LTTS' chip-to-cloud expertise to unleash the power of 5G and transform global manufacturing and supply chain processes.

Qualcomm Technologies, an industry leader in 5G globally, is accelerating the expansion of 5G connectivity, and its end-to-end domain expertise is enabling the growth of the broader technology

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ecosystem spanning 5G Private Network RAN, devices, automation and management solution and partner initiatives.

As part of the proposed collaboration, Qualcomm Technologies will engage Private Networks RAN Automation technology for the automation and management of small cells along with pre-integrated PN solutions. LTTS will facilitate end-to-end system integration, design, and implementation of use cases, provide engineering consulting, and deployment services along with edge-to-cloud orchestration and management. Combining their diverse ecosystem strengths, both Qualcomm Technologies and LTTS are now enabling Industry 4.0 solutions for enterprises.

In line with the terms of the collaboration, LTTS will establish an engineering center of excellence in Santa Clara with Qualcomm Technologies' support to accelerate the adoption of 5G private wireless networks.

**Abhishek Sinha, Chief Operating Officer and Board Member at L&T Technology Services** said, "With the increasing demand for a connected world, LTTS is constantly leveraging its chip to cloud design expertise to realize the power of 5G and reshape the ideas of business. 5G is a breakthrough technology and we, at LTTS, are well-poised to meet the demands of this rapidly evolving connectivity space in association with an industry leader like Qualcomm Technologies."

**Savi Soin, Senior Vice President, Business Development and Partnerships, Qualcomm Technologies, Inc.** said, "We are committed to expanding our one technology roadmap for a future that is connecting everything to the cloud. The Connected Intelligent Edge is where wireless technology, on-device computing, AI, and low power consumption are accelerating the digital transformation across industry verticals. Through this collaboration with LTTS, we are bringing innovative solutions and services to market that will accelerate digital transformation for smart manufacturing, factory, logistics and warehousing sectors globally."

## ***New BuildingPoint Dealers Established in UK and Ireland***

28 September 2022

Trimble announced that a BuildingPoint™ distribution partner has been established by the KOREC Group in both the United Kingdom and Ireland. KOREC is an established Trimble Geospatial distribution partner. BuildingPoint UK and Ireland joins the growing BuildingPoint partner network that provides focused sales and services with a portfolio of software and hardware solutions for the Design-Build-Operate (DBO) lifecycle of buildings.

BuildingPoint dealers represent Trimble Building Construction Field Solutions—a portfolio of synergistic hardware, software and service offerings that allow users to create and transfer constructible models throughout the DBO lifecycle. Trimble is dedicated to transforming the planning, design, construction and operation of buildings through advanced, accessible, intuitive technologies. Trimble solutions provide an unprecedented capability to improve productivity, schedule adherence and cost discipline through tighter coordination, improved project transparency and collaboration—enabling stakeholders to realize greater agility, efficiency and insight.

With experienced construction professionals in each region, BuildingPoint supports users in achieving the optimal construction technology solution for each project. This support consists of a combination of hardware and software, consulting, virtual design and construction services, personalized training and technical support.

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Headquartered in Huntingdon and Dublin with regional offices, BuildingPoint UK and Ireland was formed in September 2022. It will serve architects, engineers, contractors, owners, and occupiers across the DBO lifecycle of a building.

## ***OpenBOM™ Announced Patent Award For Multi-Member Collaboration And Data Management System***

22 September 2022

OpenBOM™, a leading SaaS digital product data management, and collaboration platform announces a patent award for multi-member collaboration methods. OpenBOM develops SaaS PDM and PLM products to help manufacturing companies to solve the pervasive problems related to data management, data silos, and communication inside of a company and across supply chains. OpenBOM allows users to manage data, files, and related changes across engineering, manufacturing, supply chain, contractors, and suppliers regardless of organizational and geographic boundaries.

The Invention (US Patent No. 11,315,08) enables multi-member collaboration and data management is focusing on the activity of people performing a specific set of collaborative tasks related to product structure and associated information. The method is allowing to control of user rights and tasks related to the contextual set of information and applies rules to define a set of associated operations and data based on each person's (or company's) settings.

“Manufacturing is in the midst of digital transformation. The influx of data, the distributed character of work, and the need to make better decisions faster are putting new pressure on manufacturers” says Oleg Shilovitsky, CEO of OpenBOM. “Data silos and the absence of a single source of product records are killing companies and processes. Data is often siloed in different physical locations — in engineering, procurement, supply chain management, customer-facing databases, legacy systems, and spreadsheets. This leads to miscommunication between engineers, contractors, and suppliers, causing mistakes, delays, excessive costs, lost orders, and other problems”.

“Before, we didn’t have a final BOM that was accurate or easy to share. We need a full product BOM. It was too much tribal knowledge. I absolutely love that now I can share accurate, complete BOMs with vendors, partners, customers and so many more. It is great for the team and great for the company” - Lead Engineer, Tomcar.

OpenBOM cloud-native PDM and PLM platforms allow data management across multiple sources and multiple companies, organizing and managing product data records, providing product data intelligence, and changing the way organizations work together. Multi-tenant data management provides a unique way to analyze data and connect people and processes.

## ***Schneider Electric Appoints Dallas-based Joshua Dickinson as SVP and CFO for North America Region***

28 September 2022

Schneider Electric, the global leader in the digital transformation of energy management and automation, has appointed Joshua Dickinson as the new Senior Vice President and Chief Financial Officer, North America.

In his role, Dickinson will be responsible for all financial operations of the ~8.2 billion euro (FY '21) North America region, including driving profitable growth, navigating the current business landscape while protecting the P&L, and supporting global peers on multiple global initiatives. He will also lead

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the finance transformation of the region with responsibilities that include budgeting and forecasting, talent development, internal controls and operations management.

“Fulfilling this mission requires firm financial acumen and effective business leadership that Joshua brings to the role,” said Aamir Paul, President, Schneider Electric North America. “He is an experienced and thoughtful leader and is the ideal person to guide the business as we continue to grow and help our customers realize their sustainable futures.”

Dickinson remarked, “I’m beyond grateful for the opportunity to lead the Finance organization for the North American region. We have stellar talent across Canada, Mexico, and the U.S. who I know will work diligently to serve the needs of the business and deliver results for our customers, shareholders, and employees.”

Dallas-based Dickinson began his career at Schneider Electric in 2015 as the Division Controller and CFO for the company’s Industry U.S. division. Over the course of his tenure, he held positions that have prepared him for his new role, including as the CFO of ASCO. Most recently, he served in the capacity as the NAM Deputy CFO leading the North America FP&A team while also serving as the Finance Business Partner to the U.S. Country President. He also oversaw the design and execution of the North American Finance transformation as part of the company’s Global One Finance journey.

Dickinson’s work background prior to joining Schneider Electric spanned multiple industries and four Fortune 500’s as well as a private equity carve out of Caterpillar Logistics Services into the standalone Neovia Logistics Services.

Dickinson graduated from Taylor University and earned his MBA with an emphasis on Finance from the University of Texas at Arlington.

## ***TCS Wins the 2022 Microsoft Supplier of the Year Award***

3 October 2022

Tata Consultancy Services (TCS) has won the 2022 Microsoft Supplier of the Year award in the large supplier category.

TCS was recognized for consistently delivering new capabilities with automation solutions that help improve accuracy for Microsoft, while also increasing its speed to market. TCS was cited for its expertise across industries that enables Microsoft to better serve customers, showcasing what it means to focus on strategy, impact, agility, and modernization.

TCS has been a strategic partner to Microsoft for over 22 years and has led initiatives to drive technology modernization and digital transformation, improve agility to respond quickly to unprecedented business change, enhance diversity and inclusion, as well as accessibility and sustainability. TCS collaborates with all of Microsoft’s business groups like collaboration, gaming, business operations, security to provide various services such as analytics, product engineering, digital marketing, customer support, infrastructure support, and more.

With its deep contextual knowledge gained over the years, TCS has delivered several transformative solutions that have helped Microsoft drive digital innovation, provide exceptional customer experience and grow its business. For example, TCS helped build a business intelligence product, reduce time-to-market, and strengthen the brand’s presence in the marketplace. Similarly, TCS developed a unified, extensible and scalable platform that consolidates data from various Microsoft devices and services to deliver insights on user adoption and user awareness.

TCS was also one of the finalists in the category of ‘Trailblazer: Innovation & Creation’ for driving

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next-generation concepts through discovery, designing innovative solutions, making innovation accessible and identifying new possibilities.

*“TCS consistently delivers automation solutions that drive time savings and improve accuracy for Microsoft. They are a trusted and strategic partner to ensure we provide round-the-clock service with no interruptions,”* said **James Cavanagh, Strategic Supplier Group Manager, Microsoft.**

*“We are honored to receive this award and are proud to be Microsoft’s partner for multiple large and global digital transformation initiatives. This award is a recognition of our belief and commitment to continuously deliver differentiated services and exceptional outcomes. Our contextual and domain knowledge as well as investments in innovation, automation, and intellectual property, have helped Microsoft build a strong foundation for greater agility and resilience, to deliver superior customer experiences,”* **Madhumita Dasgupta, Senior Managing Partner, Business Transformation Group, TCS.**

As one of the largest global system integrators in the world, TCS also partners with Microsoft in joint go-to-market programs and leverages its industry expertise and client-specific contextual knowledge to accelerate its clients’ growth and transformation with innovative solutions using Microsoft technologies.

With more than 50,000 trained professionals on Microsoft technologies, TCS’ Microsoft Business Unit has completed over 1,000 successful Azure engagements for hundreds of global customers, making it one of the most recognized partners in the Microsoft ecosystem. It has achieved all 18 Microsoft Gold Competencies, received 16 Microsoft Advanced Specializations, is a member of the 2021/2022 Inner Circle for Microsoft Business Applications, and designated as a Microsoft Azure Expert Managed Service Partner.

TCS’ industry-leading portfolio of intellectual property is available on the Azure cloud. This includes the TCS Advanced Drug Development Platform, ERP on Cloud, Hosted OSS/BSS (HOBS) for CSPs, the TCS iON assessment platform, TAP™ for procure to pay, TCS Optumera™ for retail optimization, CHROMA™ for talent management, Intelligent Urban Exchange, and TCS BaNCST™\_Cloud for banking and financial institutions. TCS’ award-winning, cross-industry sustainability solutions — TCS Clever Energy™, Intelligent Power Plant (IP2™), TCS Envirozone™, Cognitive Plant Operations Adviser, and ESG integration solution – are also available on Azure.

## ***Trimble Announces Tekla Global BIM Awards 2022 Winners***

4 October 2022

Trimble announced the winners of its 2022 Tekla® Global Building Information Modeling (BIM) Awards. In this biennial competition, the world's most impressive structural construction projects that use Tekla solutions are judged in eight categories. The criteria the projects are judged on include Use of BIM and Collaboration, Innovative Use of Tekla software, Constructibility, Environmental Benefits and Cool Factor. The overall winner for the best BIM project of 2022 is T2 Alliance, for their Helsinki Airport expansion project.

### **Best BIM Project: T2 Alliance, Helsinki Airport, Finland**

The 103,000 square-meter extension to the existing Helsinki Airport is the winner in the Public category and the Best BIM project of the 2022 Tekla Global BIM Awards. This approximately 1-billion-euro project was a cooperation between Ramboll Finland, Finavia Corporation, SRV Rakennus, ALA Architects Ltd, Arkkitehtitoimisto HKP, and Gravicon. The project entails a new 450,000 square-meter apron, 16 new wide-bodied plane parking positions, and 4,800 new parking spaces for cars. Finavia, the

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owner of the project, achieved the BREEAM Excellent sustainability certification.

The BIM-based collaboration throughout the project was instrumental to the success of the project. All 100-200 engineers and building product manufacturers modeled their products digitally. The contractors orchestrated the use of over 400 high level-of-detail models in the project using 30 BIM-related software products.

“This project showcased such a strong way of collaborating and building things digitally and then creating the physical twin. It demonstrated innovation and re-engineering the processes for the benefit of all the different stakeholders,” said jury member Salla Eckhardt, director of Digital Building Lifecycle & Innovation at Microsoft.

As the winning team, T2 Alliance will present its Helsinki Airport project at **Dimensions+ 2022**, the Trimble User Conference taking place in Las Vegas, November 7-9, 2022.

## **International Competition**

What started as a regional drawing contest in 1999, has grown into an internationally recognized competition in the field of structural engineering. Teams from across the globe working on some of the world’s most challenging projects compete on the basis of the best or most innovative use of BIM and digital technologies in structural engineering. Over 132 projects were entered in this year's competition, which included winners of regional Tekla BIM Awards from 37 countries.

The projects are judged by an international jury consisting of industry experts Salla Eckhardt, director of Digital Building Lifecycle & Innovation at Microsoft (US); David Lash, product manager of Tekla Structures at Trimble; Kalle Kähkönen, professor & head of Civil Engineering Unit at Tampere University (Finland); and Holger Karutz, civil engineer & editor-in-chief at CPI Concrete Plant International trade journals (Germany).

“The Tekla Global BIM Awards celebrate the best in structural engineering and BIM,” said Jari Heino, vice president and general manager, Trimble Tekla. “Our Tekla software enables structural engineers the world over to push the envelope of design quality, functionality and sustainability. The exceptional quality of this year’s entries shows the progress that the Tekla community is making in furthering the impact of the structural engineering trade.”

## **Tekla 2022 Global BIM Awards Category Winners**

*Commercial: King’s Cross R8, United Kingdom*

Arup is the winner of the award in the Commercial category for Lot R8, a part of the King’s Cross Masterplan in London. This high-visibility project comprises a 13-storey office block and residential block. The £110 million development will provide approximately 13,000 square meter office space and over 70 apartments. The team consisting of Arup, Argent, McLaren Construction, Piercy & Company, Severfield UK and Getjar used a Common Data Environment based on Trimble® Connect® collaboration platform and applied an IFC standard-based exchange to collaborate with stakeholders. The group made significant use of Tekla Warehouse for content sharing. Another noteworthy aspect was the intricate rebar set that was designed for the project.

## **Public: Helsinki Airport, Finland**

The extension to the Helsinki airport—a project by the T2 Alliance—won the Public category and Best BIM Project award. The jury praised the fact that the model used was created only by a few people and shared by many, especially in the light of synchronized production and the project’s impressive dimensions.

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## *Industrial: Pierrefonds Waste Management Plant, France*

The creation of the Pierrefonds waste separation facility on the island of LaRéunion (off the coast of East Africa) is a multi-year, 230-million-euro project by a consortium of specialist firms led by industrial contractor CNIM, and will promote the island's circular economy. The design created in Tekla Structures, using Tekla Model Sharing, combines units for the sorting and processing of recyclable materials, digestion of biowaste and will generate renewable electricity, making this what the jury deemed "an environmentally positive industrial project" at "an interesting location."

## *Infrastructure: Ovalo Monitor Bridge, Peru*

The winner in the Infrastructure category is an overpass of 870 meters, with a complex reinforced concrete superstructure and a substructure consisting of 2 abutments and 21 piers. The team from TSC Innovation, together with the builder INCOT and the rebar supplier Aceros Arequipa, used detailed (LOD400) and collaborative VDC engineering, prefabrication and applied IFC and cloud connectivity. The jury recognized the impressive digital workflow, as disparate design teams used Tekla Model Sharing and Trimble Connect as a common data environment; commenting: "combining the BIM data with conditions is a strength for decades to come."

## *Sports & Recreation: Tampere Deck and Arena, Finland*

In the Sports & Recreation category, the 2022 Tekla BIM Award went to the Tampere Deck and Arena project. The site is complex, with a living oasis being built over a railway in the middle of an urban area. The team from SRV Rakennus, Ramboll Finland and ARCO Architecture Company worked on around 500 models using Tekla Structures, Tekla Model Sharing, Trimble Connect and Trimble SketchUp® modeling software. In the project, an initial InfraBIM-based information model was implemented. Infrastructure and traffic planning were implemented in a versatile manner with simulations used for traffic arrangements. Sustainability aspects were considered in multiple ways, such as a condensation heat recovery system and solar collectors.

## *Small: The Big One, Season 2, United Kingdom*

The Big One is one of the best-known rollercoasters in the UK. Taziker Industrial won a 2021 Tekla BIM Award for their project on the re-tracking of 9 tracks. This included a tunnel crossing and changing the line of the tracks for a smoother ride, collaborating with the dynamics engineers at Westlakes Engineering. The team faced complex geometry, using point cloud to determine geometry of the existing track, which was then exported for design improvements, and reimported for the new line design and final modeling. Tekla Structures was key to the success of this project along with its variety of tools such as point cloud import, layout manager and the Grasshopper® link ability and the possibility to back check using a total station to confirm final geometry. The jury commented, "this kind of project raises the bar for the industry overall."

## *Student: Corrèze Bridge, France*

The winning student project is a design project for a bridge over the Corrèze river. A team of 6 students from the IUT du Limousin Civil Engineering Department worked for only 13 working days on the discovery of the bridge under construction as well as the concrete execution plans & mixed steel-concrete structure design. The team applied Tekla Structures to model the boom as built as well as the bridge, and scanned the boom to find missing dimensions, produced the reinforcement cage designs for the bridge supports (piers, abutments and deck). And finally, they presented the designs to the project engineer, manager and owner. The jury was impressed, saying: "There is a lot of new talent growing and entering the industry."

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*API Developer: ScaffPlan, Australia*

The 2022 Tekla Global BIM Award for an API Developer went to ScaffPlan, for their ScaffPlan® system for scaffolding modeling built on top of Tekla Structures. Scaffplan utilized the full power of Tekla Structures, through the Tekla Open API, combined with ScaffPlan features, resulting in a solution that helps increase companies' ROI. A team of 5 developers worked on 3 million lines of code. The solution is a strong proof point of Trimble's platform strategy, aiming at 100 percent of the construction trades creating constructible information.

*Special Recognition: E6 Ranheim-Værnes, Norway*

The jury awarded special recognition for the E6 Highway project in Norway, a 23-kilometer highway expansion to improve traffic flow and safety. It comprises 240-meter bridges and 2 CIP concrete tunnel portals. The team consisted of ACCIONA Engineering, Ramboll, ACCIONA Construction, COWI, Statens Vegvesen (road authority) and Nye Veier (project owner). This is a true wide-scale BIM project from design to construction with digital information being central to decision making, collaboration (through Tekla Model Sharing), coordination as well as data exchange across teams and final handover for operations. Trimble Quadri® was the main coordination environment for model federation and interdisciplinary coordination. The jury highlighted the efficient use of IFC files and the use of Trimble Connect for the information exchange between structural, modeling, drafting and project coordination teams.

## ***Xometry Promotes Matt Leibel To Chief Technology Officer And Appoints Brendan Sterne As Chief Product Officer***

3 October 2022

Xometry, Inc., the global online marketplace connecting enterprise buyers with suppliers of manufacturing services, announced the promotion of Matt Leibel to Chief Technology Officer and the appointment of Brendan Sterne as Chief Product Officer. The appointments were announced by Randy Altschuler, CEO of Xometry.

Leibel, who joined Xometry in 2019, has played a critical role in the continuing development of Xometry's proprietary AI algorithms, fintech and cloud-based software solutions.

Sterne, an expert in scaling products that drive market share and revenue growth, joins Xometry as Chief Product Officer from Indeed. He most recently served as General Manager of the company's Job Seeker division, overseeing product, design, software engineering and operations for the digital talent marketplace, which serves more than 250 million job seekers every month. In his nine years at Indeed, Sterne also launched and ran the Indeed Incubator, an internal innovation fund and startup studio.

"Matt is an expert technologist whose deep AI and machine-learning expertise has contributed to our rapid growth, while Brendan's ability to create immersive products that drive market share and revenue is unmatched," Altschuler said. "Together, Matt and Brendan will ensure we continue to deliver innovative products that help buyers connect with suppliers, create locally resilient supply chains and push our global economy forward."

Prior to joining Xometry, Leibel led product, design and software development for well-known public and private technology companies, including Vistaprint, Resonate Networks, Electronic Data Systems, TechTrader and Plateau Systems, among others.

Prior to Indeed, Sterne held numerous product and engineering positions, including leading the

Innovation Labs group at Bazaarvoice, developing rich-media product reviews and review-intelligence products for Fortune 500 customers.

## Event News

***Join the world's leading AEC thought leaders at Building Together 2022 online to explore the latest disruptive industry trends and innovative best practices***

5 October 2022

**Graphisoft, the leading Building Information Modeling (BIM) software solution developer for architecture and engineering, has announced the complete speaker list and agenda for the Building Together 2022 online event. Scheduled for October 25-27, the online program will cover a range of topics, including socially responsible architecture, digital tools and transformation, visualization technology, and future-proofing the next generation of architects and engineers.**

The keynotes, case studies, and roundtable discussions will highlight real-life actionable and practical insights — all within the framework of an inspiring three-day online conference. Live Q&A and networking opportunities with leading professionals and peers will guarantee a robust, interactive experience for all attendees.

"Graphisoft customers have designed millions of buildings around the globe to create a world of attractive, culturally valuable, and sustainable buildings," said Huw Roberts, Graphisoft CEO. "We're excited and honored to be joined by outstanding thought leaders and innovators in the AEC space at this year's Building Together event — and to share their practical insights on the trends shaping architectural design and engineering."

### **What to expect at Building Together 2022**

- ***Architecture as a tool to improve lives:*** According to **Anna Heringer (Germany)**, 'joyful living is a creative and active process.' The internationally acclaimed 2010 recipient of an honorary UNESCO professorship was recently awarded the Cross of Merit of the Federal Republic of Germany for her outstanding contributions as a pioneer of sustainable construction.
- ***Acting towards designing Socially Responsible Architecture (SRA):*** **Jessica M. O'Donnell, Kitchen & Associates (USA)**, will moderate a roundtable on how architectural practices can take actionable steps now to implement elements of the Socially Responsible Architecture movement in their current projects.
- ***Golden nuggets — Data-driven change in architectural practice:*** Data is everywhere, insights are not. **Rosey Alexander, Bond Bryan (UK)**, shares a glimpse into how architectural practices can use the data they generate to unearth information that drives change and alters behavior.
- ***Digital Darwinism:*** The disruptive nature of start-ups brings innovation and challenges to larger, more established firms. **Karl-Heinz Land (Germany)** explains what 'digital Darwinism' is and how companies can leverage that disruption to work in their favor.
- ***Turning a vision into built reality — Floating Office Rotterdam:*** **Albert Richters** explains how the **Powerhouse Company (Netherlands)** used BIM to build a floating, off-grid, carbon-neutral office building.
- ***Building business relationships:*** **Bernardo Farkasvölgyi, Farkasvölgyi Architects (Brazil)**, describes how strong mentor and client relationships and innovative technology partnerships helped build and grow a successful practice — now in its fourth generation — despite a

challenging business environment.

- ***The advantage of functioning fully in BIM:*** Learn how Archicad empowers the 12-person team at Resin Architecture, led by **Graham Whipple (USA)**, to do the work of a 50-person firm.

## ***OpenText kicks off OpenText World introducing Cloud Editions 22.4 and Project Titanium***

4 October 2022

At OpenText World, OpenText™, announces Cloud Editions 22.4 (CE 22.4), a series of impactful new innovations driving forward the company's Project Titanium to deliver seamless complete and integrated information management in the cloud. With strengthened offerings in public and private cloud, CE 22.4 innovations unlock tremendous value for customers, providing them the tools, solutions and trust to help solve their biggest hurdles and excel in a world of accelerated change.

“OpenText is empowering organizations to drive digital led transformations and prepare for the critical and expanding business requirements of modern work, environmental, social, and governance (ESG), as well as artificial intelligence,” said Mark J. Barrenechea, CEO & CTO, OpenText. “Cloud Editions 22.4 is an important milestone in our journey to complete and integrated information management in the Cloud. Titanium, our next generation cloud platform, will help customers accelerate their cloud-based digital transformation and future AI applications.”

During his OpenText World keynote address today, Mark J. Barrenechea, is sitting down for a fireside chat with OpenText customer Cardinal Health to speak about their modernization journey: “As a crucial link between the clinical and operational sides of healthcare, it's essential to have a secure, reliable cloud-based EDI platform to provide life-saving products to our customers,” said Denise Hemmert, VP of Platform Services at Cardinal Health. “I'm excited to join OpenText World to discuss how we are leveraging digital capabilities to modernize our technology infrastructure to better serve manufacturers, providers, health systems and patients across the healthcare ecosystem.”

At OpenText World this week, much will be revealed around the CE 22.4 release.

### **CE 22.4 simplifies opportunities to increase customer engagement and responsiveness**

Customer experience is of critical importance in today's digital world. In a recent OpenText global survey, eight in ten respondents (80%) experience information overload, and to help cut through this cluttered environment, it's crucial for businesses to personalize every web and communication experience, provide customers with the right content at the right time and through the right channels. In 22.4, new capabilities in OpenText Experience Cloud, make it faster and easier to increase relevancy, consistency and responsiveness across the entire customer journey with two new must-have solutions to solve for Customer Experience Management (CXM) and Digital Experience Management (DXM) use cases. Delivered in a unified environment, these solutions bring together key capabilities across OpenText applications Exstream (CCM), TeamSite (WCM/CMS), Media Management (DAM), Experience CDP, and Core Experience Insights, all within a composable platform out of the box.

Additional enhancements to OpenText™ Exstream and OpenText™ TeamSite are critical to the new Experience Cloud solutions. **OpenText™ Exstream** accelerates time to market for digital communications across channels and formats with seamless electronic signature processing integrated to Core Signature, and automated archiving to OpenText InfoArchive. The new enhancements also provide no-code dynamic charting and display components for visually engaging communications. **OpenText™ TeamSite** is at the core of every customer experience platform and 22.4 offers the ability to configure and compose unique intelligent digital workplaces to improve productivity and surface relevant data

# CIMdata PLM Industry Summary

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insights for improved decision making. Combined with a new integration to Google BigQuery, web developers and content creators will benefit from dynamic AI/ML driven data processing to deliver more personalized and relevant experiences and communications.

## **CE 22.4 empowers workforces with smarter, simpler and savvier solutions to master modern work**

OpenText is committed to empowering workforces across all industries to gain the information advantage through frictionless, automated and simplified experiences and 22.4 has several innovations enabling workforces to excel at modern work. Accessing content where and when needed is simplified with **OpenText™ Core Content** and its new integration with Microsoft®. Consumers can now open or save documents to Core Content directly from Microsoft Office Desktop applications and view, edit or co-author directly within Core Content – boosting productivity while maintaining integrity.

Staying ahead and staying secure is made easier with ready-to-run business scenario templates from **OpenText™ Extended ECM**. The newest addition to the growing Business Process Library is the new Real Estate Management Business Scenario that streamlines management of globally dispersed real estate assets – a time-intensive process all enterprises face. Extended ECM also enhances compatibility with SAP applications with support for SAP S/4HANA Harmonized Document Management, standardizing integrations to accelerate time to value with fewer resources.

Additionally, OpenText also continues to manage the risks associated with eDiscovery with enhancements to **OpenText™ Axcelerate**, improving productivity for legal teams. Delivering project oversight and superior insights through enhanced reporting, 22.4 introduces a new configurable dashboard and reporting framework for Axcelerate based on the Magellan Business Intelligence and Reporting (MBIR) platform that includes a variety of new enhancements for faster decision-making and cost control. Eliminating the need for third-party add-on tools, this new feature also comes at no extra cost.

Focused on making OpenText Business Network available to companies of all sizes, the new **Microsoft Dynamics 365 Business Central Order to Cash Adapter Kit for OpenText Business Network Cloud Foundation** offers mid-market size companies, with limited internal electronic data interchange (EDI) skills, to be able to exchange order to cash-related business documents electronically with key trading partners. Businesses can now leverage a scalable B2B integration environment that can support changing business needs and help streamline order fulfillment processes with seamless integration to Microsoft Dynamics 365.

## **CE 22.4 offers trusted solutions for better cyber resilience in a disruptive world**

With the complexity of the digital world today, information advantage is being able to access digital information with comprehensive digital forensic investigation tools. With CE 22.4, OpenText continues to focus on modernizing forensic investigations, with enhancements to **OpenText™ EnCase Forensic** and **OpenText™ EnCase Endpoint Investigator** including the support of new cloud connectors for Facebook Messenger, Slack and Microsoft 365 Archive, enhanced workflows and Mac collections. In addition, to enhance threat detection and incident response, **OpenText™ EnCase Endpoint Security** adds the ability to conduct off-VPN anomaly detection and manage custom automated response actions. CE 22.4 is also enabling scalable network visibility and faster collection and analysis of external Packet Capture (PCAP) with **OpenText™ Network Detection & Response**.

## ***Rockwell Automation to Showcase a Complete Connected Enterprise at PACK EXPO International 2022***

6 October 2022

Rockwell Automation, Inc., the world's largest company dedicated to industrial automation and digital transformation, announced its plans to showcase a complete Connected Enterprise® demonstration at PACK EXPO International 2022, taking place October 23-26, in Chicago. By converging plant-level and enterprise networks, and securely connecting people, processes, and technologies, a Connected Enterprise allows users to access, analyze, and act on production data in real-time, connect systems and redefine productivity in the information age, and address issues to safeguard assets.

“2022 is an exciting year for Rockwell Automation at PACK EXPO International,” said Steve Deitzer, vice president of global industry, CPG, Rockwell Automation. “For the first time, attendees will be able to experience a demonstration of a full Connected Enterprise on the show floor and learn how to maximize and safeguard their operations through data. From Rockwell's booth and OEM technology showcase, to thought leadership sessions, to more than 400 booths around the show that feature Rockwell's innovations, attendees will be sure to experience Rockwell and its latest technologies at PACK EXPO International this year.”

Attendees who visit Rockwell's booth (#1660) can experience first-hand a one-of-a-kind journey through a Connected Enterprise.

- **Flexible Manufacturing Robot Demo** – Beginning with a flexible manufacturing robot demonstration, featuring Unified Robot Control, Independent Cart Technology, and VersaView 6300 Industrial PC, attendees can experience a customized solution that showcases “the SKU of YOU” and what they can accomplish through single use fulfillment, flexible equipment design, and smart manufacturing.
- **SaaS / Cloud (Drawing from Live Robot Demo Data)** – This portion of the demonstration will include Plex Asset Performance Management, MES Automation & Orchestration, and remote access, as well as Fiix CMMS.
- **Digital Twin Station** – Featuring Emulate3D™, this station will show real examples of customer packaging machines, as well as simulation videos and digital twin development and emulation.
- **Cybersecurity Station** – Cybersecurity is an extremely important piece of a Connected Enterprise, and attendees will experience an attack simulation and take a cyber assessment at this station to understand how Rockwell solutions can keep their systems safe.
- **Partner Station** – The final portion of the journey includes a partner station that includes a Rockwell partner locator, as well as customer videos. Attendees can then see specific solutions at the booths of Rockwell's PartnerNetwork across the show.

### **OEM Technology Showcase**

Complementary to its booth, Rockwell's innovations will also be on display in its OEM technology showcase room. Located off the show floor in Room #S-504, this showcase will have on display a FactoryTalk Optix Visualization Platform, an information-enabled ASEM 6300 Panel PC, and on-machine solutions including Armor PowerFlex Drives and Armor Kinetix.

### **PartnerNetwork**

Rockwell's presence at PACK EXPO International will not be limited to its own booth and OEM

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showcase room. More than 400 booths around the show floor will feature Rockwell technologies and solutions, as the majority of exhibitors are members of Rockwell's PartnerNetwork. In addition, more than 70 of Rockwell's OEM Gold partners will be exhibiting at the show.

## **Educational Sessions**

Those who are interested in learning about the latest trends and solutions within the area of packaging should attend Rockwell's thought leadership educational sessions on the Innovation Stage at PACK EXPO International. Rockwell leaders will be presenting on topics ranging from unlocking data, workforce, cybersecurity, and cloud solutions each day of the show. Learn more about the topics and schedule [here](#).

In addition to exhibiting and hosting educational sessions at PACK EXPO, Rockwell is supporting scholarships for future packaging professionals by returning as the title sponsor of PACK EXPO's annual PACK gives BACK event. Attendees will rock out to the legendary STYX band after a networking event. All proceeds will benefit the PMMI Foundation.

Visit Rockwell's booth at PACK EXPO International to learn more about trends affecting your bottom line, discover solutions to move your business forward, and network with professionals from over 40 Industry verticals. For more information about Rockwell's presence at PACK EXPO International, click [here](#).

## ***Unity Technologies and Configit Join Forces at Leading German Industry Conference to Showcase Real-Time 3D Configuration***

4 October 2022

Unity Technologies, the world's leading platform for creating and operating interactive, real-time 3D (RT3D) content, and Configit, the global leader in Configuration Lifecycle Management (CLM), will attend the **German Mechanical Engineering Summit in Berlin** to present how their technologies and solutions address key trends in industrial manufacturing.

### **Combining the Leading Configuration and 3D Visualization Technology**

This partnership combines the leading configuration and 3D visualization technology, enabling manufacturers to manage and market the most configurable and complex products. Together Configit and Unity allow customers to interact with products from any device and any platform, no matter how complex, in real-time.

Unity's visualization product, Forma, combined with Configit's patented Virtual Tabulation® configuration technology, empowers manufacturers at every stage of their product lifecycle by bringing interactive, collaborative digital twin models and applications to any platform, at scale and with zero errors.

### **Bringing Bright Minds of Global, Industry-Leading Industrial Companies Together**

Now in its 13th year, The German Mechanical Engineering Summit is traditionally a place where the bright minds of global, industry-leading German industrial companies come together to report on their experiences, exchange ideas and join forces in networks for the tasks ahead of the industry.

This year the Summit will welcome **Federal Chancellor of Germany, Olaf Scholz**, and **Vice Chancellor of Germany, Robert Habeck**, and **US Ambassador Amy Gutmann**, who will join executives, management and scientists from industry-leading German industrial companies to exchange ideas that will advance the manufacturing industry.

## Financial News

### ***HONEYWELL TO RELEASE THIRD QUARTER FINANCIAL RESULTS AND HOLD ITS INVESTOR CONFERENCE CALL ON THURSDAY, OCTOBER 27***

29 September 2022

Honeywell will issue its third quarter financial results before the opening of the Nasdaq Stock Market on Thursday, October 27. The company will also hold a conference call at 8:30 a.m. EDT.

#### **Presentation Materials / Webcast Details**

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

Honeywell ([www.honeywell.com](http://www.honeywell.com)) is a Fortune 100 technology company that delivers industry-specific solutions that include aerospace products and services; control technologies for buildings and industry; and performance materials globally. Our technologies help aircraft, buildings, manufacturing plants, supply chains, and workers become more connected to make our world smarter, safer, and more sustainable. For more news and information on Honeywell, please visit [www.honeywell.com/newsroom](http://www.honeywell.com/newsroom).

Honeywell uses our Investor Relations website, [www.honeywell.com/investor](http://www.honeywell.com/investor), as a means of disclosing information which may be of interest or material to our investors and for complying with disclosure obligations under Regulation FD. Accordingly, investors should monitor our Investor Relations website, in addition to following our press releases, SEC filings, public conference calls, webcasts, and social media.

### ***Infosys to Announce Second Quarter Results on October 13, 2021***

3 October 2022

[Infosys](http://www.infosys.com), a global leader in next-generation digital services and consulting, will announce results for the second quarter ended September 30, 2021 on Wednesday, October 13, 2021 around 3:45 p.m. Indian Standard Time (IST) (6:15 a.m. US ET; 3:15 a.m. PST; 11:15 a.m. London time; 6:15 p.m. Singapore/Hong Kong time). The results will also be available on [www.infosys.com](http://www.infosys.com).

#### **Common press conference**

**(4:30 p.m. IST; 7:00 a.m. ET)**

Following the release, the leadership team will be part of a common press conference at 4:30 p.m. IST. The participating executives will address questions from the media during this interaction, which will be streamed live on the Investor Relations section of Infosys website, following which it will be archived at [www.infosys.com](http://www.infosys.com). The archive will be available after 7:00 p.m. IST on October 13, 2021 (after 9:30 a.m. US ET on October 13, 2021). In addition, a transcript of the conference will be available at [www.infosys.com](http://www.infosys.com).

#### **Earnings call**

**(6:00 p.m. IST; 8:30 a.m. ET)**

The company will conduct a single 60-minute conference call at 6:00 p.m. IST (8:30 a.m. US ET; 5:30 a.m. PST; 1:30 p.m. London time; 8:30 p.m. Singapore/Hong Kong time) on October 13, 2021 (open to investors/analysts in all regions), where the senior management will discuss company's performance and answer questions from participants. To participate in the conference call, please dial the numbers

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provided below 10 – 15 minutes before the scheduled start time of the call. During this time, the operator will provide instructions on how to ask questions. Alternatively, you can also pre-register yourself using the DiamondPass™ link provided below which will enable you to connect to the conference call without having to wait for an operator. As participation in the call is limited, early registration is encouraged.

This event will be webcast live on the Investor Relations section of Infosys website, following which it will be archived at [www.infosys.com](http://www.infosys.com). The archive will be available after 8:30 p.m. IST on October 13, 2021 (after 11:00 a.m. US ET on October 13, 2021). In addition, a transcript of the conference call will be available at [www.infosys.com](http://www.infosys.com).

## Summary of events

Event	Date and Time	Website/ Region	Telephone No.
<b>Earnings release over the wire services</b>	3:45 p.m. IST	<a href="http://www.infosys.com">www.infosys.com</a>	
	6:15 a.m. ET		
	October 13, 2021		
<b>Common press conference</b>	4:30 p.m. IST	<a href="http://www.infosys.com">www.infosys.com</a>	
	7:00 a.m. ET		
	October 13, 2021		In person/ Dial-in details to be shared with participants
<b>Event</b> <b>Earnings conference call</b> (open for questions from investors / analysts in all regions)	<b>Date and Time</b> 6:00 p.m. IST 8:30 a.m. ET October 13, 2021 Questions during the call can be addressed to <a href="mailto:sandeep_mahin@infosys.com">sandeep_mahin@infosys.com</a>	<b>Web-site/ Region</b>	<b>Telephone No.</b>
		DiamondPass™ registration link	<a href="https://services.choruscall.in/DiamondPassRegistration/register?confirmationNumber=6093838&amp;linkSecurityString=16f6019902">https://services.choruscall.in/DiamondPassRegistration/register?confirmationNumber=6093838&amp;linkSecurityString=16f6019902</a>
		India	<b>Toll, Mumbai:</b> +91 22 6280 1168 +91 22 7115 8069
		US	<b>Toll-free:</b> 1 866 746 2133 <b>Toll Number:</b> +1 323 386 8721
		Singapore	<b>Toll-free:</b> 800 101 2045 <b>Toll-number:</b> +65 3157 5746
		Hong Kong	<b>Toll-free:</b> 800 964 448 <b>Toll Number:</b>

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	+852 3018 6877
	<b>Toll Free:</b>
	0053 116 1110
Japan	<b>Toll Number:</b>
	+81 3 4589 9421
	<b>Toll Free:</b>
	0 808 101 1573
UK	<b>Toll Number:</b>
	+44 203 478 5524
	<b>Toll-free:</b>
Germany	00 8001 424 3444
	<b>Toll- free:</b>
Canada	011 8001 424 3444
France	

### ***Invitation - presentation of Sandvik's report of the third quarter 2022***

3 October 2022

Sandvik will publish its third quarter results on Monday, October 17, 2022 at approximately 11:30 AM CEST.

A combined webcast and conference call for investors, analysts and financial media will be held at 13:00 PM CEST.

The report will be presented in a webcast and conference call by Stefan Widing, President and CEO as well as by Cecilia Felton, CFO.

The presentation will be broadcasted live on our website [home.sandvik](http://home.sandvik)

Dial-in details for the conference call:

SE: +46 (0) 8 505 100 31

UK: +44 (0) 207 107 06 13

US: +1 (1) 631 570 56 13

From about 12:30 PM CEST presentation slides will be available on our website [home.sandvik](http://home.sandvik)

### ***Invitation to presentation of Addnode Group's Interim Report January – September 2022***

7 October 2022

**Addnode Group is pleased to invite investors, analysts and media to a presentation where President and CEO Johan Andersson and CFO Lotta Jarleryd will present the interim report**

# CIMdata PLM Industry Summary

**January – September 2022. After the presentation, there will be an opportunity to ask questions.**

Date: Friday October 28, 2022

Time: 09:30 am CET

Link to Audiocast: <https://financialhearings.com/event/44183>

The presentation will be held in English.

The report will be published at 08:30 am CET the same day.

The full report, presentation and link to the audiocast will be available on [www.addnodegroup.com](http://www.addnodegroup.com)

## ***Invitation to presentation of Hexagon's Interim Report on 27 October***

6 October 2022

Hexagon will release its Interim Report for the third quarter 2022 on Thursday 27 October at approximately 08:00 CET. A combined telephone conference and live webcast concerning the report will be presented by President and CEO Ola Rollén on the same day at 10:00 CET.

Please call +46 (0) 8 566 426 51 (SWE), +44 (0) 333 300 0804 (UK), +1 631 913 1422 (US) (code: 59571996#) to participate in the telephone conference or visit [hexagon.com](http://hexagon.com) to access the webcast.

The presentation material will also be available for viewing on the Company's website on-demand.

## ***Wipro Limited to announce results for the second quarter ended September 30, 2022, on October 12, 2022***

3 October 2022

Wipro Limited, a leading technology services and consulting company, will announce results for the second quarter ended September 30, 2022, on Wednesday, October 12, 2022, after stock market trading hours in India. The results will be available in the Investors section of the company's website at [www.wipro.com/investors/](http://www.wipro.com/investors/)

At 7:30 PM IST\* (10:00 AM US Eastern time) following the results announcement, the senior management will discuss the company's performance for the quarter and full year answer questions sent by 6:30 PM IST\* (9:00AM US Eastern time)

to: [iyer.aparna@wipro.com](mailto:iyer.aparna@wipro.com) or [abhishekkumar.jain@wipro.com](mailto:abhishekkumar.jain@wipro.com)

The audio from the conference call will be available online through a webcast and can be accessed at

<https://links.ccwebcast.com/?EventId=WIP121022>

**Dial in details for the conference call are as below**

<b>Time</b>	<b>7.30 PM - IST* (10:00 AM-ET#)</b>
<b><a href="#">Click here for the diamond pass link</a></b>	
Dimond Pass™ is a Premium Service that enables you to connect to your conference call without having to wait for an operator. If you have a Diamond Pass™ click the above link to associate your pin and receive the access details for this conference, if you do not have a Diamond Pass™ please register through the link and you will receive your Diamond Pass™ for this conference.	
Primary Access Toll Number	+91 22 6280 1120 +91 22 7115 8021

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US Toll Free Number	1 866 746 2133
US Standby Toll Number	1 323 386 8721
UK Toll Free Number	0 808 101 1573
UK Standby Toll Number	44 203 478 5524
No passcode Required	

Please dial any of the above numbers five to ten minutes ahead of schedule. The operator will provide instructions on asking questions before and during the call.

The replay of the call will be available two hours after the end of the call on following numbers.

## Call Playback Numbers:

	Phone Number	Passcode/Conference ID	Replay Dates
India Toll	+91 22 71945757 +91 22 66635757	Access Code: 947765#	12-Oct-22 to 11-Nov-22
International Toll	+1 8332898317	Access Code: 947765#	12-Oct-22 to 11-Nov-22

## Implementation Investments

### ***Accenture Collaborates with Mars to Develop “Factory of the Future” Using AI, Cloud, Edge and Digital Twins***

4 October 2022

Accenture is working with Mars, the global leader in confectionary, food, and pet care products and services, to transform and modernize its global manufacturing operations with artificial intelligence (AI), cloud, edge technology and digital twins.

Accenture and Mars have been trialing digital twins for Mars’ manufacturing operations since late 2020. Digital twins are virtual representations of machines, products, or processes. Fed with real-time data, they can predict and optimize production processes and equipment performance, from reliability to quality to energy efficiency. Applied to its manufacturing plants, digital twins will enable Mars to simulate and validate the results of product and factory adjustments before allocating time and resources in the physical space.

The companies tested a digital twin to reduce instances of over-filling packages, a common problem in the food industry. The digital twin gave Mars a bird’s-eye view of the production lines at one of its factories in Illinois. The twin fed sensor data from manufacturing machinery into a predictive analytics model, which allowed factory line operators to monitor events in real-time and adjust the filling process. After the successful test, Accenture and Mars introduced the solution across the U.S. and developed similar solutions for its pet care business in Europe and China.

Under the new agreement, Accenture and Mars will work together to apply digital twin technology and models to the company’s manufacturing facilities globally. This will give Mars factory line operators real-time insights into current and predictive performance. Mars plans to apply them to dozens of use cases over the next three years.

Over the next two years, Accenture and Mars will create a new cloud platform for manufacturing

## CIMdata PLM Industry Summary

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applications, data and artificial intelligence (AI) to lay the foundation for its vision of the “Factory of the Future.” The new platform will provide next-generation robotics, AI and automation capabilities at the edge to make Mars manufacturing operations significantly more efficient and address essential sustainability goals such as water stewardship and reducing waste and total greenhouse gas emissions.

William Beery, vice president, and global CIO at Mars Wrigley said, “Our collaboration with Accenture, combined with our partnership with Microsoft, enables us to scale digital twin technology to reach this goal, delivering not just significant cost savings and sustainability, but preparing our manufacturing operations for the future of work.”

Larry Thomas, a senior managing director at Accenture and client account lead for Mars adds, “Our work with Mars is about using the power of data, cloud and edge computing to modernize factories, boost business agility in response to change, and put power in the hands of Mars Associates so they can make informed decisions faster.”

Accenture brings cloud, engineering, manufacturing, and supply chain capabilities to the project. It also works closely with Microsoft to leverage the Azure platform and Accenture’s proprietary edge accelerators. Earlier this year, Accenture was named Microsoft’s 2022 Manufacturing & Supply Chain Partner of the Year.

Thiago Veiga, senior director of Digital Supply, R&D & Procurement at Mars Inc., said, “We at Mars are constantly looking for innovative and sustainable ways to create value in our end-to-end supply chain, and digital manufacturing is a key priority.”

Simon Osborne, a managing director at Accenture leading its digital twin work with Mars, said, “The problems we’re solving aren’t new; what’s new is how we use advanced technologies to get real-time data into operators’ hands and apply AI to help them make decisions before problems occur. While many companies are beginning to experiment with digital twins, what sets this project apart is the speed and scaling of the technology across Mars’ operations globally.”

### ***Atos wins a contract with SOLIDEO (Olympic Delivery Authority) to digitally manage the Athletes’ Village with its smart territories data platform – Urban Data Platform***

4 October 2022

Atos announces it has been selected by SOLIDEO, the Olympic Delivery Authority, to deploy a digital platform for the Athletes’ Village located in the Seine Saint-Denis department (Greater Paris), in the municipalities of Saint-Ouen-sur-Seine, Saint-Denis and L’Île-Saint-Denis. Atos’ Urban Data Platform (UDP) solution enables SOLIDEO to consolidate all data generated by a wide ecosystem of smart devices (IoT), applications and services dedicated to the site’s energy and environmental performance.

UDP combines data flows from sensors, embedded systems, satellite images and other platforms contributing to the operational management of the Athletes’ Village. It stores and logs this data in order to monitor the environmental impact of the Village and to implement corrective actions. By way of example, UDP collects data from weather sensors, air quality and noise pollution as well as identifying heat islands and traffic light failures. The ingested, analyzed and aggregated data are presented as monitoring dashboards.

UDP is developed in the European open source framework, FIWARE, and complies with the standards of the international smart city network, OASC (Open & Agile Smart Cities). The company—Vertical M2M (IoT)—hosted by UrbanLab/Paris&Co (platform dedicated to urban innovation), contributes to the integration of data in UDP under the direction of Atos.

# CIMdata PLM Industry Summary

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*“Atos’ Urban Data Platform provides us with innovative digital infrastructure to meet our targets to decarbonize the Athletes’ Village and make sustainable investments in technology”* commented **Antoine Du Souich, Strategy and Innovation Director, SOLIDEO.**

*“We are proud that SOLIDEO has decided to include Urban Data Platform in the delivered works since they herald Paris as the city of tomorrow. Urban Data Platform reflects our capabilities to support cities and territories in the management of the data lifecycle. Leveraging our expertise in cybersecurity and the sovereign cloud, UDP converts raw data into tools that monitor decarbonization policies, urban planning, crisis management and quality of life for contemporary urban spaces”* said **Yannick Tricaud, EVP, CEO Southern Europe, Atos.**

SOLIDEO is responsible for the delivery and completion of more than 60 works and development operations required to organize the Olympic and Paralympic Games Paris 2024. These works are imagined and designed for conversion into facilities, housing and offices in 2025. The Athletes' Village, a showcase for tomorrow's smart cities, will cover 52 hectares located 300 meters from the Grand Paris Express Pleyel station near Saint-Denis, L'Île Saint-Denis, and Saint-Ouen. During the Games, it will accommodate up to 14,250 Olympians and 6,000 Paralympians as well as their support staff, representing over 200 nationalities. In 2025, the Village will become a residential and office space with a capacity for 6,000 residents and 6,000 service industry jobs.

## ***Dudley Stephens Automates Processes with Centric PLM™ to set the Foundation for Further Growth***

4 October 2022

Centric Software® is delighted to announce the release of a success story about its customer, Dudley Stephens.

Headquartered in Greenwich, Connecticut, and founded in 2015, Dudley Stephens is a female-founded, family-owned company that produces apparel and accessories for women, children and men. From the outset, the vision was comfortable, stylish products made with eco-friendly fleece and other responsible materials.

The company was using spreadsheets, email and PowerPoint for product development. They needed to track fabrics and materials to ensure that their components are environmentally responsible. Says Lauren Stephens, CEO and co-founder, “Our environmental mission is extremely important to our customers. We listen to their feedback.”

And with growth accelerating, it made sense to put a product lifecycle management (PLM) solution in place to have one central repository for all product data. Stephens says, “With our company and our growth, we got to the point where we absolutely couldn't keep up with it anymore. When we hit that point, we brought Centric on.”

Dudley Stephens selected Centric PLM to improve efficiency and make informed, data-driven decisions. Stephens says, “There are so many decisions to be made and we like to make decisions quickly.” Kaki McGrath, co-founder and COO concurs, “Quick decision-making is so important. We always talk about how we need to be doers, and not just sit and think, because then nothing gets done.”

## ***ESTECO nominated official supplier of Luna Rossa Prada Pirelli Team***

3 October 2022

**We're proud to announce that ESTECO has been named official supplier of Luna Rossa Prada Pirelli for the 37th America's Cup for the third time in a row.**

“We're proud to contribute to the development of Luna Rossa Prada Pirelli boats by providing our software solutions, modeFRONTIER and VOLTA, thus continuing the collaboration, which started since the conception of these fascinating flying hulls of the AC75 class”, said our President, Carlo Poloni.

In a context where innovation and accuracy have to meet America's Cup limitations, software tools like ESTECO modeFRONTIER and VOLTA become essential in developing and optimizing the new AC75 class boats in the shortest amount of time.

"modeFRONTIER is one of the essential work tools of our Team, because it supports us in optimizing the hydrodynamic profiles that will form the basis for a wider 3D analysis in the wing and rudder design of the AC75”, said Andrea Vergombello, VPP and CFD optimization, of the Luna Rossa Prada Pirelli Team.

In the past, modeFRONTIER played a key role in designing the AC75 monohull and in optimizing the navigation trajectories. With the help of our software, Luna Rossa Prada Pirelli Team engineers were able to design the shape of the hull they wanted in just three months. We were excited to see their hard work come to life during the America's Cup 2021 and we eagerly followed all the stages, from virtual models to the final race in New Zealand. We're now looking forward to the 2024 race.

Stay tuned for upcoming news and in-dept technical content about this collaboration.

## ***Hexagon's HxGN EAM chosen by Post Consumer Brands for standardization across all plants***

6 October 2022

Hexagon's Asset Lifecycle Intelligence division announced that HxGN EAM has been selected by Post Consumer Brands, which will standardize the industry-leading SaaS-based enterprise asset management (EAM) software across its entire Post Consumer Brands business.

Post Consumer Brands is the third-largest cereal company in the United States, with a broad portfolio of products spanning all segments of the category, including Peter Pan<sup>®</sup> nut butters. Headquartered in Lakeville, Minn., Post Consumer Brands has nine plants located throughout North America. HxGN EAM was chosen by Post Consumer Brands to decrease unplanned downtime and waste as well as increase efficiencies and productivity. By rolling out the HxGN EAM solution to all plants, Post Consumer Brands will be on a single platform with a standard set of processes, workflows and reporting functions across the enterprise.

With nine manufacturing plants across North America, it is of vital importance to avoid any unplanned downtime to achieve its goals. There are currently four EAM systems in use at Post Consumer Brands. By selecting HxGN EAM, Post Consumer Brands will soon have all manufacturing facilities on a single platform with a standard set of processes. This shift will allow the company to decrease unplanned downtime, build efficiencies and increase productivity.

Following an extensive evaluation process, Post Consumer Brands chose HxGN EAM based on three key factors:

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- A consultant’s assessment and recommendation along with the endorsement of a leading global information technology services and consulting firm
- HxGN EAM’s listing as a visionary in a market research report published by an IT consulting firm that relies on proprietary qualitative data analysis methods to demonstrate market trends
- The company’s familiarity with the industry-leading asset management software, already used by several PCB plants

HxGN EAM will be used across the Post Consumer Brands’ software system for maintenance work management, maintenance, repairs, and operations (MRO) and reliability. While it will be primarily used by maintenance, employees in operations, environmental health and safety (EHS), engineering and quality assurance will also use the system to create and approve work.

Post Consumer Brands plans to implement a “Best Plant Design” across all nine of its plants. Once implemented, it intends to further develop HxGN EAM and implement advanced capabilities, including, advanced reporting, analytics, capital project approvals, engineering project workflows, data capture from field devices and asset lifecycle management.

“We view the consolidation and standardization of our EAM software and processes to a single platform as an essential move in today’s environment,” said Jamie Hansen, Director of IT Supply Chain, Post Consumer Brands. “HxGN EAM is a world-class solution and it’s a pivotal change for Post as we put continued focus on our manufacturing digital transformation.”

“We are excited to add Post Consumer Brands to a list of world-class customers in the food & beverage industry. Their perspective in this industry, and the standardization goals they have set for HxGN EAM, will create an ideal partnership that brings both the best technology and the best practices together to lead this space,” said Kevin Price, Vice President, Digital Assets Strategic Advisor, Technical Product Evangelist, Hexagon’s Asset Lifecycle Intelligence division.

Built upon more than 30 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.

## ***Infor Partners with Fontainebleau Las Vegas for Cloud-Based Front and Back-of-House Hospitality Solutions***

3 October 2022

Infor®, the industry cloud company, announced that Fontainebleau Las Vegas, a vertically integrated 67-story hotel, gaming, entertainment and meeting destination conceived by Fontainebleau Development, will partner with Infor to implement key front- and back-of-house hospitality solutions to automate critical business functions. Through this partnership, the Fontainebleau Las Vegas team can utilize cloud-based applications specifically built for the hospitality industry to unify and refine hotel operations, create scalable processes, improve processes, and share real-time data, empowering business leaders to make more-informed decisions as the property prepares for its global debut in late 2023.

“Infor’s Hospitality solutions are built to help hoteliers better manage all facets of the business, so they can make more impactful decisions to amplify success and take the business further,” says Infor General Manager Jason Floyd. “Infor’s hospitality-specific cloud solutions will provide Fontainebleau Las Vegas with the tools to combat fluctuating variables, mitigate day-to-day challenges, and eliminate redundancies in the day-to-day workflow.”

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Fontainebleau Las Vegas will utilize Infor's Hospitality Management System (HMS), a robust, integrated, and scalable hotel property management system built specifically for hospitality and gaming. This cloud-based system will provide centralized guest profile management to enable better personalization, support a digital guest journey with mobile-enabled check-in and check-out, guest services and housekeeping, and customizable fields and screens by user type allowing hotel team members to deliver extraordinary guest service and strategy precision.

"The next-level technology that will be showcased throughout Fontainebleau Las Vegas will extend behind the scenes as we adopt modern solutions to capitalize on critical data and intelligence," says Fontainebleau Las Vegas Chief Technology Officer Marc Guarino. "Infor's technology solutions will allow us to automate time-consuming back-of-house processes so that we can further focus on delivering unforgettable experiences at the property."

Upon opening, Fontainebleau Las Vegas will feature approximately 3,700 uniquely designed hotel rooms, more than 550,000 square feet of customizable convention and meeting space, and a world-class collection of gaming, dining, retail, lifestyle, and health and wellness experiences.

## ***ITC Infotech Successfully Completes 10 Years of Strategic Association with Saudi National Bank***

28 September 2022

ITC Infotech, a leading global technology services and solutions provider announced that it has successfully completed 10 years of strategic association with Saudi National Bank (SNB), the largest commercial bank in Saudi Arabia. ITC Infotech in these years has played a pivotal role in the Bank's modernization, digital transformation, and growth journey.

Commenting on the relationship, **Saleh Saleh, Group Chief Technology and Digital Officer at SNB said**, "Our collaboration with ITC Infotech has been transparent from the start resulting in a fruitful and successful relationship. ITC Infotech's deep domain experience have helped leverage growth and profitability in the rapidly transforming competitive landscape. It further enriched and expanded SNB's digital capabilities that resulted in the successful delivery of a large array of technology projects. We, at SNB, strive to fulfill one of our strategic visions to be the best digital bank and we continue to be a premier financial and banking service provider in the region."

**Vishal Kumar, President and Regional Head- Middle East, Africa & APAC, ITC Infotech** says, "We are very pleased to have collaborated with SNB and have played a pivotal role in their digital transformation. This relationship is a testimony of our proven capabilities and experience in anchoring the Bank's growth journey and fulfilling its vision. Our association with SNB will set a benchmark in the region and with our capabilities we will be able to contribute to the digital development of the financial and banking operations in Middle East."

Over the last decade, ITC Infotech has harnessed its deep-domain expertise and capabilities to deliver best-in-class technology consulting solutions that help clients overcome challenges and accelerate growth in the Kingdom. The company will continue to stay focused and committed to empower clients meet Saudi Arabia's Vision 2030.

## ***Precision Instruments Manufacturer Locks on Cloud to Drive Growth***

5 October 2022

Infor®, the industry cloud company, announced that Physik Instrumente Group has chosen to implement Infor CloudSuite Industrial Enterprise. The manufacturer, which specializes in producing

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precision instruments, is thus advancing its growth strategy fueled by unified, standardized data management harnessing the potential of AI/ML in a multi-tenant ERP cloud.

Physik Instrumente (PI) is a privately held industrial company founded in 1970 as a spin-off of the Max Planck Society, a nonprofit association of leading German research institutes. The manufacturer, based in Karlsruhe, state of Baden-Württemberg, supplies positioning technology, enabling precision to the nanometer, as well as standard and original equipment manufacturer (OEM) products with piezo or motor drives. In the founding years, the company's primary customers were academic research and science labs; later, PI also started supplying semiconductor and automotive manufacturers, the biotech sector, mechanical engineering, the medical technology sector, and process manufacturing industries. The PI Group maintains four subsidiaries in Germany and 15 foreign sales and service locations on three continents.

For PI, exact precision and accuracy are key. The manufacturer relies on powerful, yet simple-to-use enterprise business applications that allow the constant exchange of knowledge in real time across site boundaries. A consistent and integrated data management is indispensable. In addition, PI wanted to render its business more efficient, stable and agile by standardizing workflows and processes, radically reducing the number of peripheral applications. PI also aimed to execute on its global growth strategy to strengthen its own capacities as well as the control and visibility on the supply chain and the ability to improve the long-term planning cycle.

PI conducted a search for a powerful cloud ERP provider. Infor had been a partner of PI since 2006 and had already provided its previous on-premises solution. Due to the many years of trustful partnership, the manufacturer chose Infor CloudSuite Industrial Enterprise, a multi-tenant, highly scalable cloud platform for next-generation enterprise resource planning, powered by Amazon Web Services (AWS). CloudSuite Industrial Enterprise is specifically tailored to the needs and requirements of the manufacturing industry. Key assets include the ability to standardize and optimize business processes in a way only a true multi-tenant cloud offering can do, whilst ensuring round-the-clock availability of all systems and continuous live updates to the most current version. PI now has a single and central instance with an integrated database that can be accessed from all branches.

"We are a long-standing partner of Infor and are understood — and this is the crucial aspect for us," says Florian Geistdörfer, chief operating officer of Physik Instrumente Group. "Infor CloudSuite Industrial Enterprise is, therefore, not just a software package, but an elementary component of our corporate group that supports us in achieving our ambitious growth targets."

"Physik Instrumente Group is a prime example of how the highest-quality standards are demanded and appreciated by customers," said Wolfgang Kobek, Infor executive vice president & GM international business. "This is one reason why we are proud to support the company with a software suite that helps ensure compliance with such standards, thus also supporting business success."

## ***SUBARU Goes Live with Oracle Cloud Infrastructure for High Performance Computing***

29 September 2022

Oracle announced that SUBARU Corporation has moved its simulation and 3D visualization workloads responsible for improving the quality of collision safety performance and driving performance to Oracle Cloud Infrastructure (OCI). SUBARU was able to improve its development cycle, gain significant efficiencies and reduce operational costs by reducing computational timeframes by approximately 20 percent with High Performance Computing (HPC) on OCI.

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With a focus on improving drivers' "Enjoyment and Peace of Mind," SUBARU is implementing improvements to enhance design and development efficiency, agility, and flexibility. To achieve this, SUBARU recognized it needed to increase the resources supporting its computationally intensive HPC workloads that perform vast and complex simulations to improve its vehicles' collision safety and performance. Aware of how cloud technology is being used in the automotive industry to provide HPC resources to support computer aided engineering (CAE) simulations, SUBARU selected OCI to move its large HPC workloads of up to tens of thousands of cores to OCI from an on-premises environment.

"Our goal has always been to be a trusted partner for our customers and to provide attractive and distinctive products that bring enjoyment and peace of mind. We rely on technology to help us continuously improve and innovate so that we can offer the best experience to our customers. Being able to quickly conduct the vast number of simulations needed to improve crash safety and driving performance is a key focus for us. We selected OCI HPC to improve the speed of computations of collision simulations and to optimize costs. OCI gives us access to the cloud tools we need so we can automate and run jobs seamlessly, enabling faster design and development," said Mr. Yoshihiro Takekuma, IT Operation and Management Section, Engineering Information Management Department, SUBARU Corporation.

Using OCI bare metal HPC computing, coupled with fast cluster networking, which delivers less than 2 microseconds of latency and 100 Gbps of bandwidth, SUBARU now has the computing resources it needs to scale rapidly to meet demand peaks. Previously, system expansion within its on-premises environments was often restricted by lack of space, power, cost, and IT resources. Since using OCI to deliver consistent high performance and greater stability for its computational fluid dynamics (CFD) simulations, SUBARU has been able to make improvements to the internal acoustics of its vehicles to deliver a quieter drive. It has also enabled SUBARU to eliminate any variation in computation of collision analysis, by providing ideal conditions to perform structural calculations.

OCI also supports various third-party solutions through Oracle Cloud Marketplace to help customers quickly find applications and services that can help them optimize their cloud deployments, including from Altair®, a global leader in computational science and artificial intelligence (AI). SUBARU has further reduced costs by using the cloud bursting function of Altair® PBS Professional® in combination with OCI to start the nodes required for calculation and delete the nodes when the calculation is completed, bringing flexibility to the allocation of resources.

"In automotive engineering, having access to powerful and affordable HPC, is essential to run the computationally intensive and highly latency sensitive simulations and calculations needed to deliver the best outcomes when it comes to car safety and the driving experience. By providing high performance and elasticity at lower cost, OCI HPC is ideal for companies like SUBARU that require large simulation environments. We look forward to OCI fueling further technological innovations for SUBARU and contributing to their improved competitiveness," said Karan Batta, vice president, Oracle Cloud Infrastructure.

ARGO GRAPHICS Inc., one of SUBARU's long-term IT partners, supported the migration of SUBARU's HPC workloads to OCI, which started operations in May 2022.

SUBARU also leveraged Oracle Cloud Lift Services as part of its initial verification process to support its proof of concept to help issues relating to cloud migration with its production machine testing environment. Oracle Cloud Lift Services also provided SUBARU and ARGO GRAPHICS with the necessary OCI HPC skills training.

SUBARU selected OCI HPC in December 2021.

## Product News

### ***Altair Presents Open, Flexible, and Scalable Total Digital Twin Solution***

4 October 2022

Altair, a global leader in computational science and artificial intelligence (AI), announced the launch of its broad digital twin solution that features the market's most connected, cross-functional capabilities that can be deployed through any and every stage of a product lifecycle.

"Altair offers the market's premier digital twin solution that can transform the way people and organizations design, develop, implement, and improve products and processes," said Sam Mahalingam, chief technology officer, Altair. "Moving forward, we will continue establishing our digital twin leadership to provide further democratized, more accessible digital twin solutions."

#### **Fostering Evolution at Any Stage of a Product Lifecycle**

Combining Altair's leading simulation, high-performance computing (HPC), AI, data analytics, and Internet of Things (IoT) capabilities, companies can apply digital twin technology at any stage of the product lifecycle — from concept through in-service — as part of a cross-functional, enterprise-wide effort that advances collaboration and eliminates departmental silos. Additionally, Altair's open, vendor-agnostic digital twin solution is the premier offering that gives customers the flexibility to run Altair software anywhere – whether on-site, in the cloud, hybrid, or via plug-and-play appliances – and the freedom to choose from a comprehensive toolset through a cost-effective, units-based licensing model called Altair Units.

#### *Pre-Production*

In the pre-production stage, Altair offers toolsets for "as-specified" twins, which cover system requirements, development, validation, real-world performance prediction, streamlined mechatronic product development, and more. This allows teams to design, analyze, and optimize systems and performance without expensive physical prototypes. It also enables teams to converge multiphysics simulation with advanced HPC, AI, and data analytics capabilities in a unified environment.

Featured as-specified twin tools include Altair Activate, Inspire, Drive, HyperWorks, PollEx, Flux, Compose, Feko, PSIM, and XLDyn (via the Altair Partner Alliance).

#### *Post-Production*

In the post-production stage, Altair has toolsets for "as-built" and "as-manufactured" twins. As-built twins allow teams to evaluate advanced virtual system dynamics under what-if scenarios, deploy reduced order modeling (ROM), detect design sensitivities, and resolve test failures. As-manufactured twins allow teams to evaluate integrated software, processors and hardware involved with systems such as human driver controls, ergonomics, immersion, virtual reality, and more. These twins help teams simulate realistic and unexpected events, improve workability and operation windows, and produce high-fidelity displays of innovations in interactive and realistic environments.

Featured as-built and as-manufactured twin tools include Altair Embed, MotionSolve, HyperStudy, Panopticon, Design Explorer, and Vortex Studio (via the Altair Partner Alliance).

#### *In-Service Systems*

Lastly, Altair's digital twin tools for "as-sustained" twins cover predictive analytics and predictive maintenance of manufactured products that are in service. Teams can leverage real-time data stream

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analytics and machine learning to determine a system's remaining useful life (RUL), trigger insights based on anomaly detection, refine system performance, deliver optimized maintenance routines, and much more.

Featured tools for as-sustained twins include Altair RapidMiner, SmartWorks, SLC, Monarch, and Knowledge Studio.

Users can take advantage of Altair's end-to-end, holistic solutions and digital twin consulting team to help accelerate digital twin adoption in industries as diverse as aerospace, telecommunications, banking, financial services, manufacturing, energy, and electronics. Altair solutions allow organizations to do things like predict and optimize electric battery performance in buses, improve wind turbine efficiency, analyze and optimize the performance of an airborne radar system, analyze credit risk, monitor and detect financial fraud, design the ideal coffee machine, conduct prescriptive performance optimization and predictive maintenance of consumer products, and more.

## ***AVVIR joins Hexagon strengthening Hexagons ability to intelligently power the construction industry with Smart Digital Realities***

6 October 2022

Hexagon AB, a global leader in digital reality solutions combining sensor, software and autonomous technologies, announced it will integrate AVVIR's AI-powered technology stack into its portfolio of solutions that address the inherent challenges of the construction lifecycle. Since 2017, AVVIR has enabled intelligent, data-driven job sites that empower commercial, infrastructure and industrial construction professionals to reliably and safely deliver on schedule and within budget.

AVVIR's BIM-focused reality analysis platform improves project workflows, schedules, and outcomes by leveraging onsite reality capture data, enriched BIM (building information modelling) models and AI (artificial intelligence). The solution gives construction teams control with automated schedule tracking, cost and earned value analysis, installation issue detection, and an updated BIM with as-built conditions.

"Visual data is indisputably valuable. AVVIR's BIM-based, automatic tracking of project schedules, costs, and values allows customers to focus on solving issues, not finding them," says Hexagon President and CEO Ola Rollén. "This solution nicely complements our current offerings, including BricsCAD and the HxGN Smart Build portfolio. As a design authoring platform, BricsCAD supports BIM with its own set of time-saving, AI-driven add-ons such as conceptual modelling, seamless workflows, and cloud connectivity. HxGN Smart Build Insight, which is part of a larger suite of construction reality capture solutions, utilises next-generation construction management SaaS technology to provide real-time visualisation of project progress and cost status."

"As digital twins become more commonplace across job sites, real-time and autonomous capabilities are increasingly vital to saving time and overcoming asset information challenges with financial visibility and confidence," continued Rollén. "Integrating AVVIR's proven design-vs-reality analysis platform with our BIM and virtual design and construction (VDC) solutions and our comprehensive suite of reality capture solutions and services strengthens our ability to deliver smart digital realities that empower an autonomous workflow approach to construction."

Headquartered in New York City, USA, AVVIR serves some of the largest construction firms across North America. Hexagon's Geosystems division will lead the integration of AVVIR's technology and the onboarding of its employees.

## ***Build geospatial apps faster with Hexagon's M.App Enterprise 2023***

6 October 2022

Hexagon's Safety, Infrastructure & Geospatial division has released M.App Enterprise 2023, a significant update to its platform for creating geospatial and location intelligence applications. The latest release enables users to create applications faster and delivers a seamless layout across desktop, browser and mobile components.

M.App Enterprise 2023 features a completely updated design for an enhanced user experience. Users can create applications with fewer clicks, and the reconfigured dashboard provides more intuitive options and workflows. The new release also includes tighter integration with Hexagon's LuciadRIA, which provides more tools for building browser-based geospatial applications.

M.App Enterprise has been a driving force in helping cities around the world improve resilience and sustainability. Infrastructure operators, city planners, government departments and the public leverage M.App Enterprise to manage land and property; monitor and minimize emissions; analyze and predict traffic flow; determine optimum solar panel placements and more.

For example, in the Netherlands, M.App Enterprise is used to automate detection of waterway blockages for easier management and resolution. In Dublin, Ireland, M.App Enterprise powers a public, interactive map locating the city's cultural information, such as monuments, parks, festivals and more, helping city planners make strategic decisions and providing residents up-to-date information.

"M.App Enterprise puts advanced geospatial capabilities into the hands of business users," said Georg Hammerer, Chief Technology Officer, Geospatial, Hexagon's Safety, Infrastructure & Geospatial division. "M.App Enterprise 2023 makes building these apps even easier. With an optimized user experience and new tools, users can create impactful applications more efficiently, putting their data to work sooner to solve sustainability challenges."

## ***Cadence and Samsung Foundry Collaborate to Certify RFIC Design Reference Flow on 8nm Process Technology***

3 October 2022

Cadence Design Systems, Inc. announced that Samsung Foundry has certified an 8nm RFIC design reference flow to develop 5G RFICs for use with sub-6GHz to millimeter wave (mmWave) applications. The flow's advanced design methodology and unique features deliver added productivity, comprehensive electrical analysis and faster design closure to help customers implement high-quality RFIC designs with the first pass. The new flow helps joint Cadence and Samsung Foundry customers meet the growing global demand for 5G client devices, including smartphones and communications infrastructure equipment such as cellular base stations.

The design flow allows customers to quickly and easily compare circuit simulation results with pre-layout schematics, identify in-design electromagnetic effects and complete post-layout extraction for ICs designed using Samsung's 8nm RF process technology. The 8nm RFIC process is Samsung's latest addition to an already broad portfolio of RF-related solutions.

Cadence is an industry-recognized leader in advanced-node RFIC design, layout, and verification. The Cadence® Virtuoso® RF Solution offers RF analyses built on silicon-proven simulation engines in both the time and frequency domains. Cadence products supported in the 8nm RF IC design reference flow include:

- Virtuoso ADE Product Suite

- Spectre® RF Simulator
- Quantus™ Extraction Solution
- Pegasus™ Physical Verification System
- EMX® Planar 3D solver

“At Samsung Foundry, we have worked hard to supply our customers with feature-rich, high-performance technology and design flows that are highly efficient,” said Sang-Yoon Kim, vice president of the Foundry Design Technology Team at Samsung Electronics. “The combination of our technology with the Cadence RFIC tool flow sets a new standard in low-power, high-performance RFIC design and can enable the delivery of high-quality RFICs to our many mutual customers.”

“Cadence is a longstanding innovator in advanced-node IC design and has been a key enabler of every evolution in process technology over the last decade,” said Tom Beckley, senior vice president and general manager in the Custom IC & PCB Group at Cadence. “This record of technology innovation and leadership continues in RFIC, where Cadence and Samsung have mutual customers looking for innovative IC design solutions that will help them design and deliver the next-generation of RFICs for 5G applications.”

## ***Elysium - Release Announcement of CADfeature 17.0 M3***

6 October 2022

Elysium has released CADfeature 17.0 M3.

Key Enhancement

Support New CAD Version

CAD	Versions added in 17.0 M3	Supported Versions
NX	2206 Series	1847 Series – 2206 Series

## ***Elysium Releases 3DxSUITE EX9.1 — Booster Release of 3DxSUITE***

30 September 2022

**Elysium, the global interoperability solutions provider, has announced the upgrade release of 3DxSUITE EX9.1.**

3DxSUITE, a modular platform for seamless 3D data interoperability, has been supporting the MBD/MBE journey for customers to achieve the digital end-to-end processes with high accuracy & reliability since its release. EX9.1, booster release of 3DxSUITE, will provide more capabilities and usability to more users.

Key Enhancements

New CAD/Formats Support

- Import Solid Edge
- Export Creo View
  - Supported CATIAV5 to Creo View
- Export SOLIDWORKS PMI
- Import 3DEXPERIENCE Semantic PMI

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Enhanced the usability of Scenario setting and reuse

- Many enhancements for ScenarioEditor and Utility Tools

Enabled to create 3DPDF Work Instruction

- Enhanced Data Package Studio

Enhanced HTML CAD Validator Report

- Renewed 3D rendering engine to work with WebGL
  - Supported Microsoft Edge and Google Chrome

Released Bundle Package for HONDA suppliers

- Supported the data exchange between HONDA and their suppliers through their standard format

## ***OpenText unveils new integrations and innovations with Google Cloud at OpenText World 2022***

5 October 2022

At OpenText World 2022, OpenText™ unveiled plans to integrate OpenText™ Core Content with Google Workspace. The partnership will bring Google Workspace collaboration to the business processes that Core Content supports.

Deepening its commitment to innovation, OpenText is integrating its public cloud content service platform, OpenText Core Content, with the collaboration services of Google Workspace. Managing and editing content within digital processes is crucial in supporting modern, universally accessible, cloud-based work. The future integration of OpenText Core Content and Google Workspace will allow users to sync content to multiple devices for offline access, digitize and accelerate workflows, and access and edit content within leading business applications like SAP and Salesforce. This will facilitate improved productivity and collaboration for remote and hybrid teams.

“Remote and hybrid work is here to stay, and the ability to manage and edit content in the context of digital processes is critical to the success of modern work,” said Muhi Majzoub, Executive Vice President and Chief Product Officer at OpenText. “The integration between OpenText Core Content and Google Workspace will allow organizations to access and edit content while working in SAP S/4HANA Public Cloud, SAP SuccessFactors, and Salesforce, all while seamlessly automating the governance of this critical information.”

Another foundation of the partnership is Google Cloud’s ability to support public cloud applications like Core as well as private cloud deployments of OpenText applications in multiple geographies, while ensuring corresponding regulatory requirements are met. This in turn helps support customer requirements for in-country or in-region data residency while adhering to compliance standards reliably, securely, and consistently.

“To support hybrid work, organizations need information management tools to create digital workplaces that help deliver exceptional employee experiences,” said Seth Siciliano, Head of Workspace ISV Partnerships, Google Cloud. “Continuing to deliver and build the OpenText Core Platform on Google Cloud will offer the benefits of information management to more customers globally, and we look forward to working with OpenText to help more organizations meet the needs of hybrid work today and into the future.”

OpenText announced the availability of OpenText Core Content on Google Cloud earlier this year. The partnership’s capabilities were presented at OpenText 2022 in Las Vegas during a live demonstration

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with OpenText CEO & CTO, Mark J. Barrenechea. OpenText Core Content provides customers with access to the OpenText multi-tenant SaaS suite of products and API services on Google Cloud, enabling businesses to deploy capabilities securely and quickly at scale. Together, OpenText and Google Cloud provide businesses with a powerful SaaS content services platform, with low latency and secure access for distributed teams. Details surrounding the innovative relationship between OpenText and Google Cloud were further discussed during a fireside chat with OpenText EVP and Chief Product Officer, Muhi Majzoub and Head of Google Workspace ISV Partnerships, Seth Siciliano.

## ***Oracle Unveils 5G Cloud Native Network Analytics Suite***

5 October 2022

Oracle unveiled Oracle Network Analytics Suite. The new cloud native portfolio of analytics solutions combines network function data with ML and AI to help operators make more informed, automated decisions around the performance and stability of their entire 5G network core. The first offering in the suite, Oracle Communications Network Data Analytics Function is available now. With the offering, operators can quickly identify anomalies that can cause catastrophic network function failures and impact customer service.

“Driving innovation with insights from trusted data and enriched analytics is not only critical to compete in today’s marketplace, but game changing in the way service providers can achieve greater cost efficiency, improve quality of service, and carve out new revenue streams, explains Andrew Morawski, senior vice president and general manager, Oracle Communications, Networks. “Our 5G Network Analytics Suite harnesses Oracle’s cloud and network experience into a powerful toolset that helps operators better manage and optimize their 5G networks.”

### **Optimizing 5G networks with the Network Data Analytics Function**

Based on cloud native computing foundation (CNCF) principles and supporting 3GPP standards, the Network Data Analytics Function is a containerized microservices-based architecture and managed by Kubernetes. It serves as a key data and analytics repository with standard interfaces to store and share information that can support use cases across the entire 5G network.

The offering aggregates historical and real-time data such as control signaling measurements, the state of network functions, congestion, and quality of service, all in one, intuitive dashboard. By applying machine learning, predictive analytics and AI to this data, service providers can better understand how their 5G core is performing and make better decisions around any actions that need to be taken. This enables carriers to streamline operations and network planning based on insights generated from current, predicted, and even simulated events in their network.

With the offering, CSPs can build automation into applications to monitor and audit software components. This supports anomaly detection to avoid events such as network function failure that could result in degradation of network quality. The offering can also support network monetization with data and insight sharing to third-party developers to create new services.

And because it is based on open standard interfaces and supports both private and public environments and multi-cloud deployments, the network function is interoperable and accessible regardless of network size or ecosystem of core network functions in use. This is particularly useful for service providers seeking a company-wide analytics strategy, who can implement the offering to reach beyond pre-defined 3GPP use cases and work with broader analytics solutions.

“Communications service providers are challenged by the levels of complexity that new technology brings to light. Building a competitive advantage requires not only effective operations management, but

advanced insight concerning network behavior,” said Karl Whitelock, Research Vice President, Communications Service Provider Operations and Monetization, IDC. “To access enterprise-driven business opportunities, and to create value within new industries goes well beyond traditional connectivity services. Network level analytics must play a heavy role in addressing customer-defined solution needs.”

## ***Samsung Foundry Certifies Cadence Voltus-XFi Custom Power Integrity Solution for 5LPE Process Technology***

3 October 2022

Cadence Design Systems, Inc. announced that the Cadence® Voltus™-XFi Custom Power Integrity solution is now optimized and certified for use with Samsung Foundry’s advanced 5LPE process technology. Joint customers can confidently integrate the Cadence Voltus-XFi solution with Samsung Foundry’s PDKs to create ICs for next-generation hyperscale computing, mobile, automotive, and AI applications.

This latest certification is an ongoing collaboration between Cadence and Samsung Foundry to ensure customers have access to the advanced design software they need to create new ICs using the latest advances in semiconductor foundry technology. The Voltus-XFi solution supports the Cadence Intelligent System Design™ strategy for enabling design excellence.

Cadence created the Voltus-XFi solution to help customers efficiently extract, simulate, analyze, and debug IC designs. Utilizing Samsung Foundry-recommended settings, the consolidated EM-IR cockpit offers customers a comprehensive workflow—from Cadence’s Quantus™ Extraction Solution, Spectre® X Simulator and Virtuoso® ADE Product Suite to Virtuoso Layout Suite. The Voltus-XFi solution’s intuitive EM-IR results browser summarizes the EM-IR information and highlights violations, along with details on resistance value, metal layer, width, and length information. The EM-IR results are then directly annotated in Virtuoso Layout and make it easy for engineers to identify and fix the problem area.

“Through our longstanding collaboration with Cadence, we’ve provided our customers with the powerful, leading-edge IC design tools they need to quickly and efficiently develop chips on our most advanced foundry processes,” said Sang-Yun Kim, vice president of the Foundry Design Technology Team at Samsung Electronics. “This collaboration between Cadence and Samsung ensures customers can leverage the Voltus-XFi solution to accelerate design closure with our latest 5LPE technology.”

“We continue to work closely with Samsung Foundry to provide customers with advanced semiconductor design, verification, and manufacturing technologies so they can create ICs that meet the demands of emerging applications,” said Tom Beckley, senior vice president and general manager in the Custom IC & PCB Group at Cadence. “With Samsung’s certification of the Voltus-XFi solution, customers can design innovative new ICs that leverage the high-performance and lower power consumption of Samsung’s advanced 5LPE foundry technology.”

## ***Siemens’ Aprisa digital implementation solution certified for Samsung Foundry’s advanced 4nm processes***

4 October 2022

Siemens Digital Industries Software announced that Samsung Foundry has certified Siemens’ Aprisa™ solution for the foundry’s advanced 4nm FinFET technology node. With this certification, customers using Aprisa for digital implementation can design projects at 4nm with fully certified technology that

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supports all the design rules and features of Samsung Foundry's most advanced FinFET process technology platform.

This certification represents the latest in a series of milestones reflecting Siemens' substantial investment to make Aprisa the industry's leading digital implementation solution. Since completing its acquisition of the portfolio in December 2020, Siemens has more than doubled the Aprisa R&D team, while significantly advancing foundry certification programs and product enhancements.

"Siemens continues to increase its value to the Samsung Foundry ecosystem by offering more features and solutions in support of our most advanced processes," said Sangyun Kim, vice president of the Foundry Design Technology Team at Samsung Electronics. "By continuing to innovate leading-edge electronic design automation (EDA) technologies for our new processes, Siemens is again proving its commitment to Samsung and our mutual customers."

To achieve the certification, Siemens worked closely with Samsung Foundry to ensure that the Aprisa solution fulfills all certification criteria for design enablement, including 4nm design rule support, signoff Calibre® DRC software correlation, design for manufacturing (DFM) rule support, Calibre® software DFM correlation, signoff RC extraction correlation, and signoff timing correlation tasks. Siemens' solution also successfully completed a full Netlist-to-GDS flow on a certification testcase design, which demonstrates the ability to achieve all design targets, including DRC closure, DFM closure, LVS closure, timing closure, low power, runtime and memory requirements.

Aprisa technology files for Samsung's 4nm process are available now from Samsung Foundry. Certified support for Samsung's 4nm process is also available from Siemens with the latest 22.R1 release of the Aprisa software. This release provides customers with an "out-of-the-box", easy-to-use solution for leveraging the fast performance, optimal PPA and reduced design cycles of Siemens' latest Aprisa digital implementation offering.

"The Aprisa platform's certification for Samsung Foundry's advanced 4nm process technology node means that customers developing high-volume, cutting-edge semiconductor applications now have an outstanding new option for their physical design tools," said Dr. Inki Hong, general manager of the Aprisa Digital Implementation Division, Siemens Digital Industries Software. "This certification also demonstrates Siemens' strong commitment to both technology and market leadership in the place-and-route space."

## ***Siemens' Calibre platform now certified for Samsung's advanced 3nm process technology***

3 October 2022

Siemens Digital Industries Software announced that Samsung Foundry's advanced 3nm process technology now supports Siemens' entire Calibre® nmPlatform tool, which is the industry's leading solution for physical verification of next-generation integrated circuits (ICs). With this certification, customers can now expand their utilization of the Calibre nmPlatform tool to leverage the extreme performance and power efficiency of Samsung's leading-edge 3nm Gate All Around (GAA) process.

Siemens' Calibre nmPlatform tool contains a broad array of physical verification technologies that IC design teams around the world rely on to generate sign-off quality IC designs, including Calibre nmDRC software, Calibre YieldEnhancer software, Calibre PERC software, Calibre xACT™ software and Calibre nmLVS software – all of which are now certified for Samsung's bleeding-edge 3nm process.

"Siemens continues to demonstrate excellence in design enablement with the recent certification of its Calibre nmPlatform tool on Samsung Foundry's latest 3nm process technology," said Jongwook Kye,

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executive vice president of Design Enablement for Samsung Foundry. “Our close collaboration with Siemens is key to helping our mutual customers achieve silicon success with design solutions based on Samsung’s most advanced processes.”

Via certification of the sign-off versions of the Calibre platform design kits for Samsung’s 3nm process, mutual customers can now also use Siemens’ “shift-left” offerings from the Calibre portfolio, including the Calibre RealTime Custom software, Calibre RealTime Digital software (including the Calibre nmDRC-recon use model), and Calibre nmLVS-recon software tools. Engineered to help IC design teams and companies get to tapeout even faster, these solutions use sign-off Calibre design kits to help IC designers "shift left" their physical and circuit verification tasks by moving the identification, analysis, and resolution of complex IC and system-on-chip (SoC) physical verification issues into earlier stages of the design and verification flow, which can substantially speed-up time to closure.

Siemens and Samsung also collaborated closely during the development of the 3nm platform itself to help enable accurate parasitic modeling for Samsung’s 3nm Gate All Around process. The companies worked together so that, like the other Calibre offerings, the existing Siemens’ Calibre xACT software will work with Samsung GAA transistors.

Further, Samsung continues to use and leverage Calibre 3DSTACK and Calibre xACT software for 3DIC circuit verification, and has confirmed that the existing flows and capabilities continue to work effectively in systems including chiplets with 3nm GAA devices.

“Siemens is pleased to continue our collaboration with Samsung as they introduce their 3nm Gate All Around technology,” said Michael Buehler-Garcia, vice president of Calibre Design Solutions Product Management at Siemens Digital Industries Software. “As our mutual customers leverage Samsung’s 3nm offering to create higher level complexity designs, they can yet again be confident their Calibre software platform is already delivering the verification they need.”

Samsung 3nm PDKs for Siemens’ Calibre software are available now from Samsung Foundry.

## ***Synopsys and Samsung Foundry Enable 3nm Process Technology for Power- and Performance-Demanding Mobile, HPC and AI Designs***

3 October 2022

To drive adoption of Samsung's 3nm gate-all-around (GAA) technology for designs requiring optimal power, performance and area (PPA), [Synopsys, Inc.](#) announced that its longstanding collaboration with Samsung Foundry has produced multiple successful test chip tapeouts on Synopsys digital and custom design tools and flows, certified for Samsung Foundry's most advanced process. Mutual customers using Samsung Foundry's SF3 technology can benefit from the approximately 50% reduced power, 30% improved performance and 30% smaller area that the technology node has demonstrated versus the Samsung SF5E process.

"Today's demanding mobile, high-performance computing and AI applications require power and performance levels that stretch the limits of small geometries," said Sangyun Kim, corporate vice president of the Foundry Design Technology Team at Samsung Electronics. "Our longstanding collaboration with Synopsys on EDA design flow certifications provides mutual customers with substantial power, performance and area advantages."

### **Collaborating for Continued Silicon Advancements**

Synopsys and Samsung Foundry have continued innovating to drive the silicon improvements that our smart, connected world demands. Samsung Foundry streamlined its 3nm process development costs and timeline, efficiently evaluating its process options based on PPA design metrics. The foundry continues

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to include Synopsys DSO.ai™ technology in its flow, utilizing the machine learning capabilities to massively scale the exploration of choices in chip design workflows and expedite development of its process.

"Synopsys' strategic collaboration with Samsung Foundry has enabled us to remain in lockstep through every generation of their process technology advancements," said Shankar Krishnamoorthy, GM of the EDA Group at Synopsys. "By providing leading EDA design flows certified on the most advanced Samsung 3nm technology, our mutual customers can maximize the capabilities of their advanced SoC designs and achieve a faster path to silicon success."

## ***Synopsys Expands Code Sight Standard Edition with IntelliJ Support***

4 October 2022

Synopsys, Inc. announced the general availability of its Code Sight™ Standard Edition solution for IntelliJ. Code Sight Standard Edition, which was introduced earlier this year for Visual Studio Code, is a standalone version of the Code Sight plugin for integrated development environments (IDEs) that enables developers to quickly find and fix security defects in source code, open source dependencies, infrastructure-as-code files, and more, before they commit their code.

Adding support for IntelliJ significantly expands the addressable market for Code Sight Standard Edition solution. According to the 2022 Stack Overflow developer survey, IntelliJ is one of the most popular IDEs, with 28% of respondents indicating they either use or are planning to use it within the next year.<sup>1</sup> Code Sight Standard Edition for IntelliJ currently supports both IntelliJ IDEA and WebStorm. Support for additional IDEs in the IntelliJ family is planned in future releases.

Code Sight Standard Edition, which works independently of centralized security testing tools like Coverity® SAST and Black Duck® SCA, combines Synopsys' innovative Rapid Scan Static and Rapid Scan SCA technologies with a seamless user experience that enables developers to test their code in real time as they write it—without leaving their IDE or running other tools. By enabling developers to fix security defects as they are coding, it prevents costly rework caused by issues discovered later in the software development lifecycle (SDLC).

Code Sight Standard Edition is available for free for a 30-day trial period. Developers can download and install Code Sight directly from the supported IDE marketplaces and start analyzing their code in less than five minutes.

"Developers play a critical role in protecting their organizations from software risk, and they must do so without sacrificing speed or agility," said Jason Schmitt, general manager of the Synopsys Software Integrity Group. "Giving them technology that helps them write more secure code seamlessly in their IDE is not only effective at reducing software risk, but it alleviates the costly burden of finding and fixing security vulnerabilities in the later stages of the SDLC. As we continue to expand our support for more IDEs like IntelliJ, we're excited to help more organizations build trust in their software at the speed their business demands."

## ***Synopsys Unveils Breakthrough Golden Signoff ECO Solution, Delivering 10x Productivity Improvement***

5 October 2022

To boost productivity and enhance power, performance and area (PPA) of advanced electronic designs, Synopsys, Inc. announced the breakthrough golden signoff ECO solution that addresses lengthy engineering design closure times. The Synopsys PrimeClosure solution combines Synopsys' leading

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engineering change order (ECO) signoff solutions, Synopsys PrimeECO™ and Synopsys Tweaker™ ECO, with breakthrough innovations, delivering the fastest ECO closure times with high capacity and golden Synopsys PrimeTime® signoff accuracy. Early customers have achieved up to 45% better timing, up to 10% better power, up to 50% fewer ECO iterations and up to 10x higher design productivity compared to traditional ECO flows.

"Given our focus on large-scale, advanced-node designs in areas such as automotive, data centers, networking and smart devices, fast turnaround time on ECOs is essential to our business success," said Kenta Sokawa, general manager, Back End Development Division, Global Development Group at Socionext. "The Synopsys PrimeClosure solution reduced our turnaround time by over 5x, used 3x less machine memory and required 5x fewer machine resources. The early results are impressive, and we are excited to collaborate with Synopsys to push the envelope on conventional ECO challenges with the aim of achieving over 10x design closure productivity improvement for our large designs."

## **Accelerating Design Convergence**

Application areas like data centers, mobile, automotive, AI and IoT are demanding aggressive PPA targets. Advanced process nodes bring new physical rules and introduce new effects which impact PPA. The enormous size and complexity of deep-submicron designs means that every analysis and ECO optimization run to fix issues takes longer and consumes more compute resources. Handling this large number of violations and driving convergence to reduce it to zero is a big part of the ECO challenge.

The Synopsys PrimeClosure solution, with its innovative surgical optimization feature, improves design metrics like PPA, timing, clock network, voltage drop, variation and aging. The solution is tightly integrated with Synopsys Fusion Compiler™ RTL-to-GDSII solution and Synopsys PrimeTime static timing analysis solution for golden signoff accuracy, delivering a full flow that accelerates design convergence and time-to-market of large designs.

With its novel gigachip hierarchical technology, the Synopsys PrimeClosure solution seamlessly scales designs with billion+ instances and hundreds of scenarios with a relatively small number of machines to deliver the industry's fastest turnaround time (TAT). Its optimized pruning technology efficiently sifts through thousands of scenarios and hundreds of hierarchical blocks to reduce the number of datasets for optimization, resulting in TAT speedup by over 40% and reduced memory by up to 60%.

## **Optimizing Last-Mile Advanced Chip Design Closure**

Last-mile design optimization is critical to achieve optimal PPA. The Synopsys PrimeClosure solution has direct access to incrementally enabled placement, routing, extraction, physical verification, equivalence checking and signoff technologies from the market-leading Synopsys Digital Design Family. The Synopsys PrimeClosure solution is integrated with Ansys RedHawk-SC digital power integrity signoff solution, enabling a breakthrough automated late-stage golden signoff timing-aware ECO solution to accurately account for and fix up to 50% of late-stage dynamic voltage drop violations and maximize energy efficiency without impacting chip timing. The single-environment design closure cockpit ensures every change is fully implemented and validated and creates new opportunities for placement, routing, and timing co-optimization to achieve PPA results previously impossible in traditional design closure flows.

"Scaling productivity in hyperconvergent designs requires innovative solutions that can quickly and efficiently optimize PPA targets in very large design spaces," said Jacob Avidan, senior vice president of Engineering for the Silicon Realization Group at Synopsys. "The Synopsys PrimeClosure product provides the industry with a breakthrough golden signoff ECO solution that enables designers to confidently achieve the fastest path to design closure, so companies can do more in significantly less time."