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## CIMdata News

### *Siemens Parasolid & More: Siemens PLM Components Innovation Conference 2024- a CIMdata Commentary*

9 October 2024

#### Key Takeaways

- The best known products from the PLM Components business of Siemens Digital Industries Software include Parasolid, the solid modeling kernel, and JT, the ISO standard visualization format, but Siemens also has components to support geometric constraints, kinematics, and rendering, as well as complete OEMable products such as Solid Edge and Femap.
- PLM components' products are used extensively by Siemens, partners, industrial organizations, and even competitors to bring higher quality products to market faster.
- Several serious competitors, including Dassault Systèmes SOLIDWORKS and PTC Onshape, have been customers for a decade or more, proving that the level playing field touted by Siemens is real and fully honored.
- Customer presentations and discussion panels included well-known companies such as Ansys, PTC (Onshape), smaller, but well-respected companies, like Optitex and MasterCAM, and startups such as Simscale, Luminary Cloud, and nTop.

CIMdata had the pleasure of attending the Siemens PLM Components Innovation Conference in Boston, Massachusetts, on September 24 and 25, 2024. [\[1\]](#) According to our hosts, approximately 150 Siemens staff, customers, prospects, and analysts attended. This was Siemens's third time hosting the event, and the first since the pandemic. The sessions included over 20 presentations and demonstrations.

The opening session began with a keynote presentation from Mr. Tony Hemmelgarn, President and CEO of Siemens Digital Industries Software. Mr. Hemmelgarn noted some interesting statistics for PLM Components, including 400 ISV (independent software vendor) customers, more than 5 million Parasolid 3D model creators, and 65+ JT-enabled ISV customers. He made a critical point that customers get the software at the same time as Siemens' product developers and get the same level of support; this is defined as the level playing field. CIMdata has verified this claim, and Siemens' approach and relationship with its customers are the gold standard we recommend to anyone who wants to enter the software components business.

Parasolid is by far the most popular product within the portfolio and has been in production for nearly 40 years. Siemens licensed then acquired the technology yet chose to keep it open. Important benefits from this approach are Siemens can amortize the software over more seats, get much more real-world testing and feedback, and enable interoperability without the long timeline of supporting standards. Mr. Phil Nanson, Director of Parasolid Components, reviewed the latest features released in Parasolid, including new mixed-scale models to enable modeling of very small objects in the context of very large objects, such as a microchip in the context of a

city. Another interesting point made by Mr. Nanson was that automated testing, which has been used for decades, now runs four million tests per night as part of the quality assurance process. Multiple speakers, including Mr. Paul Chastell, Technical Vice President from PTC Onshape, noted the quality of Parasolid as a critical capability; Mr. Chastell stated that “Parasolid just works.”

Other licensable products within PLM Components include D-Cubed, JT, Kineo, Solid Edge OEM, and Femap OEM. CIMdata published a report on PLM components available [here\[2\]](#) that describes the each product and measures market penetration. Some results from the report are shown in Figure 1. CIMdata presented this information and an overview of the PLM market and technology trends during the Siemens PLM Components Innovation Conference.

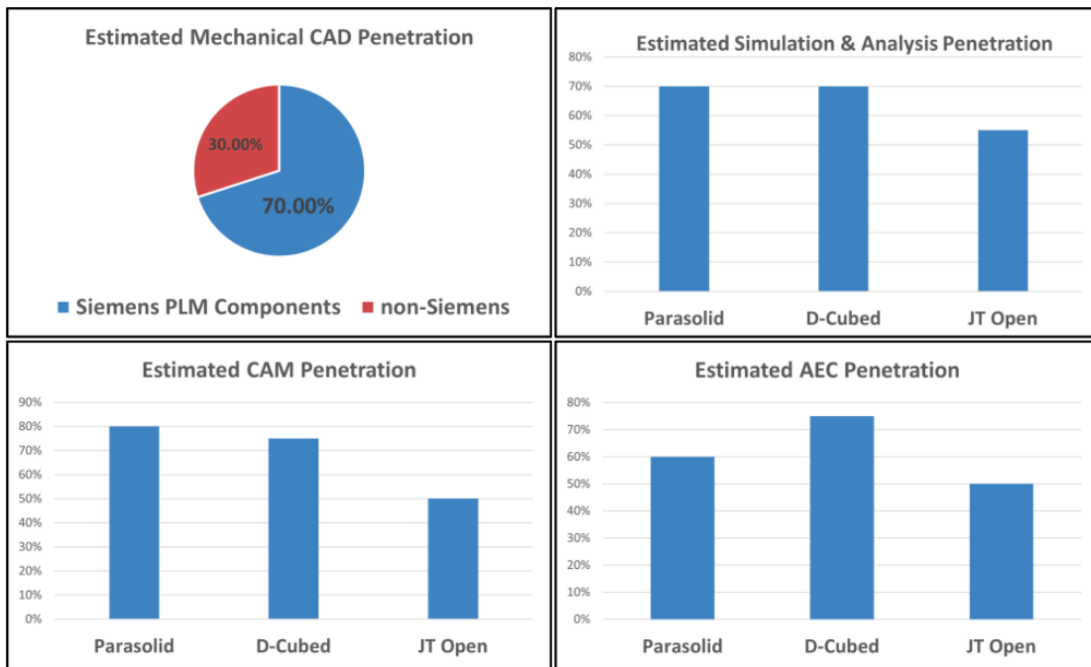


Figure 1—Siemens PLM Component Market Penetration

While Siemens chose to make Parasolid a defacto standard, they pursued and received ISO standards for the JT visualization format. Both approaches are effective ways to promote interoperability.

Various Siemens product teams delivered presentations on their offerings, describing what they do and how they are used. Kineo nearly stole the show with demonstrations of its 3D nesting component and a cabling solution. In his keynote, Mr. Hemmelgarn noted that Kineo was a relatively unknown gem within PLM Components, and CIMdata agrees. Mr. Ambroise Confetti, Software Architect, reviewed Kineo’s core products, which are used for path planning and collision detection. The most common use case is to dynamically display robotic arm motion in real-time while ensuring that there aren’t any collisions within the robot or with objects around it. The component can also be used to digitally verify the proof of assembly (or disassembly for service applications) and digital verification of manufacturing processes. Mr. Confetti also showed new solutions that support 3D nesting of parts that can be used for additive

manufacturing and a 3D Cable solution that dynamically updates cables so collision detection can be done in a moving mechanical assembly, such as a robot articulating through its range of motion.

Another exciting aspect of PLM Components is the OEMing of complete products. Solid Edge and Femap, two products for the design-focused MCAD market, are available in different configurations based on customer requirements. For example, Solid Edge has part modeling and drafting only configurations. The OEM products are interesting in that companies can get their cool ideas and capabilities to market faster and without being responsible for developing non-differentiated capabilities. An excellent example of this concept is SDC Verifier, a Femap OEM licensee. Their product encodes industry structural analysis standards such as the American Institute of Steel Construction (AISC), Norsok Standard, and Eurocodes into Femap. Doing this enables general-purpose solvers supported by Femap to run simulations that historically required specialized vertical solutions. SDC Verifier customers get the specialized analyses they need for their industry with the flexibility to support simulation use cases unsupported by the vertical solutions.

#### PLM Components Customer Presentations

Over the two days, nearly a dozen customers presented showing how they use PLM Components technology within their products. The table below lists the companies that presented, their products, and what component they used.

Customer	Product Description	Component Used
AMC Bridge	CAD/CAM/PLM	Parasolid
CAD as Code	CAD automation	Parasolid
Inpro	Collaboration and visualization	JT Open
Luminary Cloud	Simulation on the cloud	Parasolid
MasterCAM	CAM solution	Parasolid
nTop	Implicit modeling	Parasolid
Onshape	mCAD on the cloud	Parasolid, D-Cubed
Optitex	Fashion & apparel design	Iray+ (rendering)
SDC Verifier	Industry standards for simulation	Femap OEM
Shapr3D	mCAD on tablets and mobile devices, Windows & Mac	Parasolid, D-Cubed
SimScale	Simulation on the cloud	Parasolid
Synera	Low-code PLM process automation	Parasolid
TechSoft 3D	Graphics and translation components	Parasolid

In addition to the Siemens and customer presentations, Ms. Monica Schnitger, President and principal Analyst of Schnitger Corporation, led two panel discussions. The two topics were the

Future of CAD and Startups. Each session had lively discussion and provided insights to the attendees that should help them grow and improve their businesses.

### Conclusion

The PLM Components conference was a great place to see the impact Siemens has on the PLM market. Their products enable many companies to better meet their customers' needs. Parasolid, the crown jewel of PLM components, is used by partners and competitors and CIMdata found that overall customers were thrilled with the quality and were comfortable using these components within their products. For CIMdata it was exciting to see what else Siemens had to offer beyond their mainline PLM solutions and how customers are leveraging Siemens' component technology to improve their products and businesses.

In addition to speeding time to market, products like Parasolid and JT can provide entre into existing markets. Startups and companies looking to improve the technology within their legacy products should review PLM Components' offerings.

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

[2] <https://www.cimdata.com/en/news/item/21309-cimdata-publishes-white-paper-plm-components>

### *Supporting MBSE with Enterprise Digital Threads- a CIMdata Commentary*

8 October 2024

*Facilitate digital thread development & maintenance with SBE Vision's platform.*

### Takeaways

- Digital threads enable sharing stable configurations of product artifacts throughout the product's lifecycle.
- Ontologies are critical to defining the semantic foundation for meaningful digital threads that support products' systems of systems.
- Developing viable and extensible ontologies for product development leading to long-lived digital threads is a difficult undertaking unless facilitated by experience-based guidance and tools.
- Digital threads have impact across the full product lifecycle of tools and information so SBE Vision's adaptive framework is essential for providing digital threads that support the full product lifecycle.
- Model-Based Systems Engineering (MBSE) helps companies achieve superior products quickly and with fewer issues and flaws.
- SBE Vision's architecture supports development of digital threads regardless of a company's specific information and development tools environment.

### Introduction

The digital thread promises compelling benefits throughout product lifecycles from conception through end of life. Companies are embracing digital thread concepts as part of their product development lifecycle support workflows of products.[\[1\]](#)

Many product-related decisions documented and exposed during product development, deployment, and operation, are critical to determining a company's long-term success. The digital thread supports decisions around design including concept development, systems architecture, and simulation and analysis—decisions that are made long before even a single part exists. The digital thread also be employed to determine impacts beyond design, like those pertaining to safety margins, compliance, performance, and finances. These influence when and how operational decisions are made. A safety margin example is crash worthiness for automobiles, aircraft, and other products. Decisions about safety margin first and foremost focus on protecting product users. Performance drives sales—whether it is longevity, range and speed, passenger capacity, or energy consumption. For instance, a lighter car or aircraft can go further and faster, while a more energy efficient machine in a factory lowers operating costs. Profitable products can only be achieved through a progression of decisions that are heavily influenced by the interactions of requirements linked to the components of the product definition—the digital thread contains and maintains a multitude of relationships critical to profitability and lifecycle viability.

Supporting a digital thread allows complex decisions during product development and deployment to be treated as a systems problem. Systems are best designed around a framework of requirements. The problem is to assure that the requirements are fulfilled and not violated throughout the life of a product, from its conception to retirement. Requirements change, which is fine as long as the impact of any change can be easily discerned, those changes can be controlled, are fit for purpose, then managed through the lifecycle. It is one thing to define requirements before a product is designed and built, but after a product is partially defined or enters service new operational issues and upgrades occur, leading to new requirements that were not originally perceived. An important issue is how the system's defining (required) constraints are documented, maintained, traced, adhered to, and managed as the product is placed in use. To do this requires the concept of a digital thread that includes requirements and other product attributes tied to an ever-changing set of digital model artifacts. Digital threads don't simply exist, they have to be created in a managed environment with an understanding of a product's requirements, how those requirements form the basis of the digital product definition, and how the digital thread transforms over time. SBE Vision provides methods to solve the difficult problems of getting from product requirements to a sustainable digital thread that can drive complex, evolving systems of systems.

### Digital Threads Enhance Systems Engineering

While systems engineering (SE) has been used for decades, digital systems engineering provides digital threads to improve meeting overall product requirements because the threads allow designers to see more clearly how solutions fulfill requirements before a product is produced. Systems engineering modelling languages allow designers to define fundamental relationships in designs, including physical and logical interactions. Not all systems engineering modeling

languages result in digital threads that achieve the desired outcomes of systems modeling including:

- Higher system viability and conformance, due to better integration of reliability considerations into design on a real-time basis (i.e., DFMEA)
- Opportunities to better integrate the thread from product design through design of the manufacturing systems, supporting improved, lower cost production
- Extend the digital thread to support development of maintenance systems, resulting in improved service and lower lifecycle costs
- Improved understandability of designs by others, reducing lifecycle costs

The digital thread supports relationships among requirements and systems architectures, models, and design implementations to document and link these throughout the system's lifecycle.

#### The Thread of Requirements Assists Decision Making

A PLM platform provides a framework of openness and services, coming from many innovative sources and provides an architecture for PLM-enabling tools and services. Within that platform, services for grouping and linking related sets of objects to make the best decisions is required.

While the effort required to create requirements, share them among tools, allocate them appropriately, and maintain their traceability has been reduced, the substantial workload required to maintain these links discourages many from continuing to leverage their requirements throughout a product's lifecycle, reducing their value, opening the possibility for errors, and ultimately negating an essential factor for maintaining the digital thread. Yet, as system complexity and the number of artifacts increases, poor requirements management, especially supporting traceability throughout the lifecycle, becomes a company's Achilles heel.

What is needed is in-context viewing and exploration to improve decision making. With a live, active, and connected ontology (see below) and best in class applications, sharing requirements linked to product elements (parts, components, assemblies, etc.) creates stable configurations, which is critical.

An ontology is critical to defining and maintaining requirements traceability throughout a digital thread. A well-developed ontology provides a precise definition of objects, their taxonomy, relationships, attributes, and related knowledge in a required context or configuration. When defined correctly, a product and process ontology will effectively define and manage the definitions of an enterprise's products. It is important that solutions (such as the components of PLM) share a single ontology that enables the exchange and sharing of knowledge among applications. This supports better decisions. Because the ontology acts as an application language broker, a Rosetta stone, enabling sharing of elements from different requirements authoring and management domains as shown in Figure 1, below.

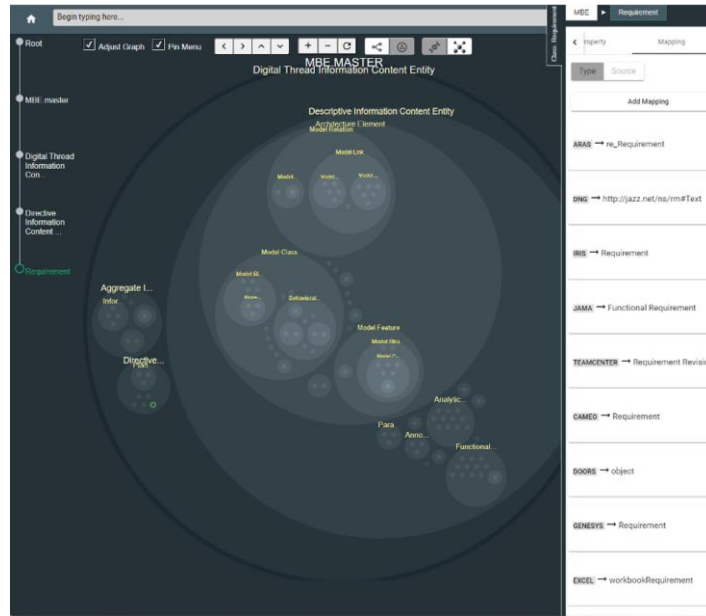


Figure 1—SBE’s MBE Ontology Showing Mappings for the Requirement Class (Courtesy of SBE Vision)

There are many purposes related to developing an ontology that defines digital threads:[\[2\]](#)

- Enables sharing common understandings of the structure of information among people or software solutions
- Enables reuse of domain knowledge
- Explicitly identifies domain assumptions
- Separates domain knowledge from operational knowledge
- Allows analysis of domain knowledge

PLM platforms delivered as Software-as-a-Service (SaaS) or Container-as-a-service (CaaS) have emerged providing a richer ecosystem. Recent CIMdata research has noted the growth of PLM platforms vs. monolithic solutions. But a platform with applications exchanging information is just a start. You also need consistent, repeatable data and process contexts in a stable configuration across these applications.

However, appropriate ontologies to support these platforms are difficult to construct. Partially, this is because teams implementing PLM and systems engineering solutions often do not have access to and experience with appropriate tools and methods for developing viable ontologies. A poorly conceived and implemented ontology is the downfall of many digital thread and system engineering projects. This is an area in which CIMdata believes that the PLM solution providers and system integrators should pursue third-party support.

A product ontology and services help create solutions to support and satisfy requirements, making sure stable configurations are used to exchange knowledge and insights consistently and control changes to these. This enables product teams to manage complex systems of

requirements and create a digital thread. The result is that effective product decisions occur faster and change management cycle times and quality improve.

### SBE Vision's Solution

SBE Vision's solution utilizes ontologies to facilitate digital engineering and related activities. It solves many of the pitfalls inherent in achieving a viable digital thread, tying disparate application information and data models together in a hybrid digital thread that can support in-design processes using their data model (ontology).

Persistent URLs support information linking in a viable digital thread across applications. Standards like OSLC and RESTful APIs provide some of the exchange capabilities needed to connect heterogeneous applications. This is critical because it is desirable to use the best requirements management and MBSE applications with the best of an organization's mechanical, electrical, software, simulation, and verification engineering applications, regardless of differences in data structures and formats. To provide a stable context, i.e., support configurations, these applications need a service which can broker communications and data flows among them—similar to how the Internet works in a scalable and secure environment. However, remote linking standards like OSLC have inherent weaknesses: missing contexts, lacking cross-system search, not providing a consistent user experience, and most importantly, an inability to communicate data states across application boundaries.

Product developers need a persistent set of data and services that inform a digital thread to organize and explore all requirements and systems engineering contexts so that they and their customers and partners can make the best decisions about a product.

Using requirements, architectures, and designs in different perspectives is a key to improving decisions, but they need to be delivered to the ecosystem of consumers in the context of their particular applications. Accomplishing this requires the bi-directional transformation of complex product-related data which effectively can only be achieved via semantic transformation such as that provided by SBE Vision's Semantic Data Broker (see Figure 2). Beyond remote linking, the Semantic Data Broker provides a mechanism for sharing data between applications via a publish and subscribe approach, again, based on having a well-defined, complete ontology. This technology delivers a highly configurable synchronization capability that supplements remote linking to allow digital threads to be constructed through either means, both local and remote linking. In SBE Vision's data broker, every object on the digital thread is an OSLC resource that is OSLC-GC (global configuration management) aware. SBE has synthesized this remote linking technology with its publish/subscribe technology in a seamless way.

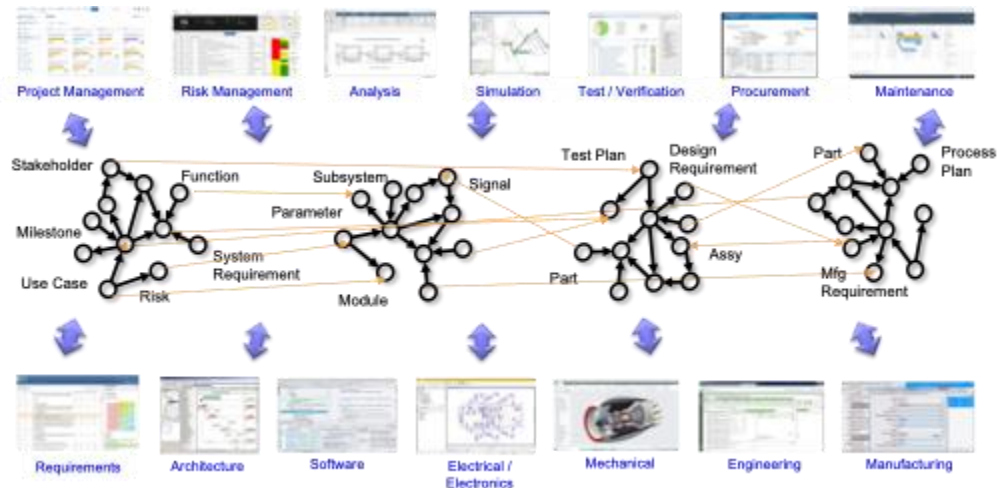


Figure 2—SBE Vision Provides the Basis for a Semantic Data Broker  
 (Courtesy of SBE Vision)

SBE Vision continues to develop a solution platform to define and support requirements, models, and verification management in a heterogenous authoring and usage environment. Integrations with DOORS Next, Teamcenter, Windchill, a variety of MBSE and analysis tools such as Cameo, ModelCenter, Rhapsody, Genesys, Simulink, Jama, Jira, and others assures support across environments. SBE’s solution is ontology-centric. It uses a semantic ontology as the universal language by which systems share data. It is based on open ontologies where users of any engineering tool can work in their preferred system and can examine requirements or models authored and managed in foreign systems. This includes support for industry standard ontologies such as the Basic Formal Ontology (BFO).<sup>[3]</sup> SBE’s Semantic Data Broker provides the essential link to the plethora of tools in use today to support digital threads. SBE also has vast experience creating ontologies for their clients.

SBE Vision’s platform technology helps create and maintain traceability across requirements and model management tools, and establish and share stable views, that is, configurations or contexts. These requirements contexts can be coherently examined and modified, even when they come from different requirements authoring systems, thus enabling digital threads. This allows systems engineers to provide views across stable digital thread contexts, thus improving decisions. These stable configurations can link any elements of information, such as parts and assemblies, in a PLM ecosystem, not just requirements.

Digital thread visualization is a serious problem when models have hundreds of thousands of nodes. SBE’s approach is to focus on task-specific dashboards, reporting, and analytics that provide answers to important process-specific questions with rapid response times. This allows users to work in their solutions’ UIs, without switching to SBE’s.

An adapter strategy is key to a well-functioning digital thread—allowing integration and interoperability across preexisting, often siloed tools and information. SBE’s adapter Software Development Kit (SDK) provides critical support for organizations who write their own adapters, which is particularly important in highly-secure environments and whenever IP protection is

critical. SBE offers an SDK that allows companies to quickly create their own integrations across the digital thread. Its open architecture has demonstrated numerous engineering tools working together in an effective manner.

SBE-supplied adapters are SBE platform version independent. As such they can be dynamically registered with any version of the SBE platform at any time. It is the SBE Connector SDK that provides this layer of abstraction between the SBE platform and the external Authoritative Source of Truth (ASoT). Once registered with SBE, a new connector can “attach” datasets with the SBE digital thread via a “channel.” [\[4\]](#)

SBE is cloud-native and is developed using a scalable container microservices architecture where every digital thread service runs in its own container and thus can be independently scaled as needed. Furthermore, SBE supports hybrid deployments where clusters can be split seamlessly between on-premises and commercial cloud nodes.

SBE’s publish-subscribe-apply refresh capability means that every adapter they provide is bi-directional. SBE can, for instance, publish a Cameo model into PLM, ALM, requirements management, and other tools. Using the SBE UI or APIs, collections of objects from multiple systems can be modified and those changes written out to the ASoTs, thus enabling an entirely new class of use cases where customers can have 3rd-party web apps drive custom digital thread apps using SBE as a backbone.

#### Summary

To support ever-changing, temporal product information and configurations, manual methods of requirements management to support digital threads must become at least semi-automatic allowing the revelation of knowledge to support insights and adjust requirements rapidly and accurately. The SBE SDK helps build and maintain digital threads, providing long term benefits, even in heterogeneous application environments.

SBE’s philosophy is to create plugins to every connected digital thread tool so that nobody has to leave their preferred user interface to use SBE. Ontologies help SBE avoid the N2 point-to-point solution integration and plugin problem found in many solutions. An ontology builder is part of the SBE solution—and importantly part of their service methodology. Building a solid ontology provides the underlying foundation for a successful digital thread and MBSE strategy. SBE Vision has many years of experience augmented by tools that support this critical ontology foundation. SBE’s task-specific dashboards, reporting, and analytics allow users to stay in their familiar UIs. SBE also provides integrations to many reporting and analytics and visualization platforms.

Industrial companies and government organizations are using SBE’s technology, and CIMdata expects that use to grow. Rapid product innovations occur in a PLM ecosystem, which also fosters process and application innovations. SBE Vision provides capabilities that other digital thread solutions fail to offer—defining requirements in a neutral ontology while offering many MBSE tool integrations, allowing digital threads that use a company’s current, favorite solutions and data.

If you are trying to create a viable ontology and build a digital thread foundation, consider evaluating SBE's solution.

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[1] Research for this paper was partially supported by SBE Vision.

[2] Noy, Natalya F. and Deborah L. McGuinness . Ontology Development 101: A Guide to Creating Your First Ontology. Stanford University.

See: [https://protege.stanford.edu/publications/ontology\\_development/ontology101-noy-mcguinness.html](https://protege.stanford.edu/publications/ontology_development/ontology101-noy-mcguinness.html).

[3] For more information on BFO

see: <https://www.youtube.com/watch?v=QGmwIWmyJeg&list=PLyngZglI3WTgK3qMmOWt4VDlbh-xB3Ejk> Also see: [https://www.youtube.com/watch?v=Yl6\\_M1sQEAO](https://www.youtube.com/watch?v=Yl6_M1sQEAO).

[4] A bi-directional pipeline for the communication of digital engineering data between and authoritative source of truth (ASoT) and the digital thread.

## Acquisitions

### *Bechtle acquires UK's Qolcom*

7 October 2024

Continuing its international acquisitions strategy, Bechtle AG has boosted its presence in the United Kingdom with the purchase of systems integrator, Qolcom Limited. Founded in 2005 and headquartered in Newbury, the IT specialist links Bechtle's existing southern locations in London and Chippenham. Specialising in digital workplace solutions, intelligent network infrastructure and security, Qolcom currently employs 44 employees and achieved revenues of 30 million euros in the last fiscal year. The sale to Bechtle underscores Qolcom's aspiration to drive company growth under the umbrella of a large international group while securing the succession of some of its leadership team with Keith Reading, remaining with the company as General Manager. Qolcom is a well-known name with an excellent reputation in the British IT services market. As is the case with all Bechtle's acquisitions, the brand shall therefore remain unchanged initially. For Bechtle, the addition of Qolcom to the group provides increased market share, a new team of highly certified professional experts, and the ability to synergise and mesh portfolios to spur additional growth, particularly in terms of expanding further into the Network-as-a-Service (NaaS) space.

Following the acquisitions of IT service provider, ACS Systems, in November 2022 and value-added reseller, Tangible Benefit in March 2023, Bechtle continues to increase its share in the UK's B2B market with the purchase of Qolcom. For Qolcom's own customers, access to the Bechtle Group's national and international capabilities will bring a wealth of new opportunities. Including its UK sites in Manchester, Northampton, London and Chippenham, Bechtle has a presence in 14 European countries and a network of partners extending to every continent.

### **Growth potential and development perspectives**

“We have been very successful in expanding our footprint in the British market over the past three years, and our open and inclusive culture certainly has played no small part in that. Qolcom is a perfect match for us—both in terms of its people and its portfolio—and we are looking forward to writing the next chapter in our success story together,” says Konstantin Ebert, COO, Bechtle AG.

“We are delighted to be bundling our expertise with Bechtle’s extensive portfolio. This marks an important milestone in our company’s growth and our customers will benefit very much from Bechtle’s holistic eco-system, especially on the international stage. We are looking forward to our future together, which will offer exciting development opportunities for our employees as well,” says Keith Reading, Managing Director, Qolcom.

As with the previous acquisitions, James Napp, Managing Director of Bechtle UK will oversee Qolcom’s integration into the group: “The Qolcom team’s knowledge, expertise and strong customer and vendor relationships will add significant strength to Bechtle UK’s position in the mid-market, enterprise and public sector networking and security space. We are excited to start collaborating and view this as another big step towards becoming one of the top 10 IT solutions providers in the United Kingdom.”

### **Established player on the market**

Bechtle has been successfully established on the UK market for over 26 years and provides companies and public sector customers with a comprehensive portfolio of hardware, software, solutions and services. With Qolcom, Bechtle employs some 370 staff across five sites in the country. Consolidated revenues total around 290 million euros. The purchase price and conditions remain confidential, as usual.

### *Flow Science Deutschland and Flow Science Mediterranea Strengthen FLOW-3D Presence in Europe*

2 October 2024

Flow Science, Inc. announces the acquisition of Flow Science Deutschland and XC Engineering, both long-standing distributors of **FLOW-3D** products in Europe. XC Engineering, which has represented **FLOW-3D** products in Italy and France, will become Flow Science Mediterranea. The company will be led by Mr. Stefano Mascetti, who continues his previous role with XC Engineering as Managing Director. Mr. Mascetti will be leading an expanded team, which includes all XC staff. “I am deeply grateful to the entire team of managers, former directors, and employees of XC Engineering, who have always brought a great added value to the company through their expertise, providing support to our customers, and showing a constant enthusiasm in their work,” said Mr. Mascetti. “This merger will certainly contribute to raising the level of customer service, making resources more efficient and benefiting from a greater know-how and collaboration with Flow Science and our colleagues in Europe.” Flow Science Deutschland will continue to represent **FLOW-3D** products in Germany, Austria, Switzerland, Belgium, Netherlands, Luxembourg, Denmark, Finland, Norway and Sweden. Mr. Malte Leonhard will lead an expanded Flow Science Deutschland team as its new General Manager. Mr. Leonhard has worked for Flow Science Deutschland since 2018, where he has primarily

focused on sales and training for **FLOW-3D CAST** software. "It is exciting to be a part of Flow Science, Inc. We are looking forward to the opportunity to support and strengthen the presence of **FLOW-3D**'s advanced CFD products in the European market," said Mr. Leonhard. Flow Science president, John Wendelbo said of the acquisitions, "These two teams continue to be incredibly valuable partners and representatives of **FLOW-3D** products. Europe is a vital customer base for us, and we are fortunate to have such strong teams there providing the highest level of sales and support to our customers in the region. We look forward to an increased close collaboration between the groups."

## Company News

### *Altair Names Cimatron, part of Sandvik Group, as Global Channel Partner*

10 October 2024

Altair, a global leader in computational intelligence, has appointed Cimatron Ltd., part of Sandvik Group, as a new global channel partner. Cimatron will amplify the reach of Altair's unique design and simulation solutions within the Altair® HyperWorks® platform. These solutions – particularly Altair's injection molding and metal forming solutions, Altair® Inspire™ Mold and Altair® Inspire™ Form – are designed to revolutionize the manufacturing industry.

"The collaboration will introduce Altair technology to customers that might not currently be using any simulation or data analytics tools, helping them compete more effectively in a global marketplace defined by cutting-edge digital transformation," said Pavan Kumar, senior vice president, global indirect business, Altair. "Cimatron is an outstanding addition to our channel partner ecosystem, and we look forward to seeing how customers in the manufacturing space will benefit from this partnership."

"Cimatron has deep roots in the global mold, tool, and die business. Our customers have been searching for modern tools to validate their tool designs to reduce the time and costs of physical tryouts," said Dan Marinac, acting president, Cimatron. "Combining Cimatron's and Altair's technology will boost customer productivity and help users create higher quality, more efficient products for all manufacturing sectors."

Cimatron searched for the ideal fit to bring "virtual prove out" to its world-class mold and die design solutions. "Enabling digital twin means modeling, simulating, improving and exploring design alternatives," Marinac said. "Predicting and avoiding manufacturing defects such as filling, packing, sink marks, meld/weld lines, cooling, warpage, windage, forming, cracks/splits, wrinkles, surface defects, and springback will save our customers time and money. Altair's technology reduces the learning curve and puts the power of simulation into the hands of toolmakers without the need for CAE specialists."

Founded in 1982, Cimatron develops and distributes CAD/CAM software for the manufacturing industry. Cimatron caters to all manufacturing sectors, offering specialized solutions for mold and die makers, as well as solutions for 2.5-5-Axis production milling and turning. Cimatron has

subsidiaries in Asia, North America, and Europe, and works with certified independent service providers in over 40 countries worldwide.

## *Aurigo Opens New Office Designed for Hybrid Work in Austin*

8 October 2024

Aurigo Software, the leading provider of capital planning and construction management software for infrastructure and private owners, announced the opening of its new campus in Austin, Texas. The company's rapid growth over the past few years led to expansion and the need for a larger facility. This development also reflects Aurigo's dedication to fostering a collaborative and adaptable work environment for its teams while strengthening its connections with Austin's thriving technology ecosystem.

"As we transitioned back to in-person collaboration post-COVID, we saw an opportunity to create a workspace that truly supports Aurigo's growth and dynamic, hybrid work culture," said Balaji Sreenivasan, CEO and founder of Aurigo Software. "With over 30% annual growth for three consecutive years and a 100% increase in our Austin and global workforce, our new Austin campus embodies our vision for the future—featuring advanced training centers, modern collaboration spaces, customer experience centers that support both in-person and remote participants, and dedicated product demo areas. We're excited to reaffirm our commitment to Austin, Texas, as our headquarters as we continue expanding our global presence!"

The workspace emphasizes a balance of innovation and relaxation, incorporating state-of-the-art amenities such as a recording studio, wellness studio, and a fully equipped cafeteria. The design also features lounge areas with Texas Hill Country views to foster creativity and teamwork.

Aurigo's decision to expand its presence in Austin highlights the company's long-term commitment to the city. With Austin's thriving tech ecosystem and proximity to leading universities like The University of Texas at Austin, Aurigo gains access to top-tier talent to drive its research and development. In addition, major technology firms like Apple, Google, and Dell already have a presence in the area.

"Our new campus isn't just about physical growth; it's about strengthening connections," said Marisa Landez, Vice President of Human Resources at Aurigo Software. "We have designed this office space with the needs of our teams and customers in mind, integrating zones for hybrid work, collaboration, client engagement, and some much-needed leisure."

Aurigo has been headquartered in Austin for over a decade and has actively contributed to the city's development. The company is committed to engaging with local universities, charities, and the broader business community through initiatives like *Aurigo Cares*, reaffirming its dedication to Austin's growth. This expansion also serves as a testament to Aurigo's progress as infrastructure and facility owners respond to the increasing demand for capital program management solutions resulting from the Infrastructure Investment and Jobs Act of 2021.

## *AVEVA launches the Managed Solution Provider Partner Program*

9 October 2024

AVEVA, a global leader in industrial software, driving digital transformation and sustainability, has launched its new Partner Program called the 'Managed Solution Provider Partner Program' (MSP Program).

The MSP Program will cater for companies who want to partner with AVEVA beyond its existing Partner Programs and monetize their digital expertise. As an MSP, AVEVA partners will be able to create their own solution as well as the chance to market this offer commercially to their customers and AVEVA's install base, benefitting from further reach with a marketplace listing.

The MSP Program supports partners by providing a full development and commercial toolkit, ensuring they can go to market quickly, efficiently and securely with multiple features. These features include: a solution envisioning workshop with technical experts to develop the solution; a secure platform to collect, enhance and share data with customers, via CONNECT Data Services; and the ability for partners to scale their solution with marketing support and access to AVEVA's install base and Industrial Operator ecosystem.

"We're excited to announce a new program for partners looking to extend the value of CONNECT with solutions and expertise. Our customers require a diverse ecosystem which offers flexibility and choice and AVEVA is committed to ensuring organizations can fully leverage the value in their industrial data. The new MSP Program enables us to amplify the great work of our partners who leverage CONNECT, showcasing their stories and their impact to customers", comments Bry Dillon, SVP, Partners and Commercial Strategy.

"The MSP Program is a true testament to AVEVA's innovation and forward-looking mindset of its partner team and management. In today's IoT-driven world where everything can be connected, the same principle applies to AVEVA's partner ecosystem. We're looking forward to joining their new partner program, giving our business the opportunity to further increase our own revenue streams," adds David Lim, CEO, Calibr8, a Managed Solution Provider Partner.

## *Bentley Systems Partners with Google to Bring Powerful Geospatial Context and Capabilities to Infrastructure*

9 October 2024

Bentley Systems, Incorporated, the infrastructure engineering software company, announced a strategic partnership with Google to integrate Google's high-quality geospatial content with Bentley's infrastructure engineering software and digital twin platform to improve the way infrastructure is designed, built, and operated.

As a digital representation of the physical world, digital twins unlock meaningful value and insights throughout the infrastructure lifecycle, from project planning and design through construction and asset operation. By leveraging the engineering data created and managed in Bentley software alongside Google's geospatial data, AI and analytics, and cloud technologies,

engineers can design and manage infrastructure in context and at scale to address today's most urgent challenges, from mitigating climate risk to maintaining aging infrastructure.

Through the partnership, Bentley software users and developers can use Google Maps Platform's geospatial content, including Google's stunning Photorealistic 3D Tiles, for real-world geospatial context and immersive 3D experiences in their digital workflows. The partnership complements Bentley's recent acquisition of Cesium, the foundational open platform for creating powerful 3D geospatial applications. Cesium is the creator of the 3D Tiles open standard used by Google. Bentley is also collaborating with Google Cloud to deliver AI-driven insights for asset analytics.

Bentley CEO Nicholas Cumins said, "By combining Google's extensive geospatial content and cloud capabilities with Bentley's infrastructure engineering software and digital twin platform, infrastructure professionals can improve their work and ensure projects and assets are created and operated with greater resilience and sustainability. This partnership demonstrates how open standards, such as 3D Tiles, can help infrastructure professionals evolve their practices by leveraging the power of geospatial context."

Chris Phillips, vice president and general manager of Geo at Google, commented, "Photorealistic 3D Tiles in Google Maps Platform power breathtaking immersive experiences and can transform workflows for architects, engineers, and urban planners. We're excited to partner with Bentley to bring powerful geospatial context and capabilities that can dramatically improve how infrastructure is designed, built, and operated with data."

### *Dassault Systèmes Employee Sets GUINNESS WORLD RECORDS™ Title in Paracycling in New Milestone for Inclusive Mobility*

7 October 2024

Dassault Systèmes announced a milestone celebrating inclusive mobility and the boundless capabilities of the human spirit: Kazuhiko Kanno, a Japanese paracyclist and Dassault Systèmes employee, set a new GUINNESS WORLD RECORDS™ title for the farthest distance by handcycle in one hour (male): 28.331 km (17.6 miles).

Kanno established the record on October 3, 2024 at the Longchamp cycling ring, a 3.541 km (2.2 miles) path in the Bois de Boulogne park in Paris, by completing eight laps in one hour. The next day, Dassault Systèmes hosted the "Mobility Night Ride," an 11 km (6.8 miles) cycling and roller-skating ride through Paris that gathered 3,000 people to celebrate alongside Kanno.

Kanno's record and the Mobility Night Ride are part of Dassault Systèmes' "The Only Progress is Human" initiative, which aims to increase awareness of today's societal and environmental challenges and inspire people to use the virtual world to drive sustainable innovations for a better future. Dassault Systèmes organized the record and ride to highlight the need for mobility to be equally accessible for all, and the role of virtual twin experiences as powerful accelerators for creating more inclusive technologies and cities.

“Everyone, regardless of their physical abilities, possesses the capability to achieve their goals. Kazuhiko Kanno’s record-setting achievement represents more than just speed and endurance – it displays his incredible strength and skills. Through our initiatives, we want to show the capabilities of the human spirit as well as shed light on the role of virtual twin experiences in facilitating new mobility solutions for a more inclusive and accessible world,” said Victoire de Margerie, Vice President, Corporate Equity, Marketing & Communications, Dassault Systèmes.

More than 50% of the world’s population resides in urban areas, where mobility plays a role in accessing resources, employment and services. However, traditional infrastructures and technologies may not adequately accommodate diverse needs.

By incorporating virtual twins in urban planning, architecture and transportation systems, as well as in the design of products for travelling, sports and healthcare, innovators can simulate and analyze the impacts of various elements on a person’s mobility, and craft more accessible, sustainable and accommodating technologies.

Dassault Systèmes’ 3DEXPERIENCE platform and applications are used by innovators worldwide to create seamless and sustainable inclusive mobility solutions such as prostheses, wheelchairs for poor road conditions, bikes for outdoor enthusiasts, optimized transportation planning and assistive systems for the blind.

### *DXC Technology Opens New Office Space in Dubai*

2 October 2024

DXC Technology, a leading Fortune 500 global technology services provider, has announced the opening of a new office space in Dubai to help clients unlock AI’s full potential, manage their most critical workloads, infrastructure and operations in the cloud, and keep their data safe and secure.

DXC’s engineers and technology experts in Dubai will use their deep industry knowledge to enable the largest public and private sector organisations innovate and improve operational efficiency with the latest cloud technologies - integrating artificial intelligence into platforms that support applications and solutions - to modernize their operations, products and services.

Strategically located in Dubai Internet City, a business and tech hub, the new space features technology-enabled reconfigurable spaces to support connection, as well as multi-functional spaces to meet the evolving needs of employees and clients, DXC’s new space embodies the future of work and will serve as a hub for collaboration with government bodies, industry associations and strategic partners in the region.

Having operated in the Middle East & Africa region for over 30 years, DXC today has over 110 customers across various industries including banking and financial services, insurance, public sector and manufacturing, and a strong global ecosystem of technology partners.

Signifying their commitment to the region, DXC Technology’s global President and Chief Executive Officer, Raul Fernandez, together with President, Asia Pacific, Middle East & Africa, Seelan Nayagam, joined Managing Director Middle East & Africa, Hesham Fayed, to officially

open the new office space this week. The ceremony was attended by customers, partners, dignitaries and government officials.

"Dubai is both a symbol of and the embodiment of technology-fueled innovation, and we believe our new facility will help further growth in the region. Our investment, commitment and renewed presence in Dubai will undoubtedly strengthen our global position as a leading IT services provider, and we're confident it will foster an environment where our colleagues can thrive and contribute to the country's vision for the future," said Seelan Nayagam, President Asia Pacific, Middle East & Africa, DXC Technology. "Our multi-decade partnerships with clients and new collaborations are built on trust and specialized expertise, and we are committed to providing environments that facilitate our workforce's upskilling in rapid growth areas including AI, data and analytics, cybersecurity, and sustainability."

With over 60 years of experience internationally, DXC employs more than 125,000 people in over 70 countries around the world, with nearly half of the Fortune 500 companies being DXC customers.

### *Electronic System Design Industry Posts \$4.7 Billion in Revenue in Q2 2024, ESD Alliance Reports*

7 October 2024

Electronic System Design (ESD) industry revenue increased 18.2% to \$4,685.5 million in the second quarter of 2024 from the \$3,962.7 million registered in the second quarter of 2023, the ESD Alliance, a SEMI Technology Community, announced today in its latest *Electronic Design Market Data (EDMD)* report. The four-quarter moving average, which compares the most recent four quarters to the prior four, rose 18%.

"The electronic design automation (EDA) industry reported substantial revenue growth in Q2 2024," said Walden C. Rhines, Executive Sponsor of the SEMI Electronic Design Market Data report. "All product categories reported increases, with IC Physical and Semiconductor IP and Services posting double-digit growth. Further, all geographic regions reported double-digit growth."

The companies tracked in the *EDMD* report employed 63,188 people globally in Q2 2024, a 6.8% jump over the Q2 2023 headcount of 59,160 and up 2.5% compared to Q1 2024.

The quarterly *EDMD* report contains detailed revenue information with the following category and geographic breakdowns.

#### **Revenue by Product and Application Category – Q2 2024 Year-Over-Year Change**

- **Computer-Aided Engineering (CAE)** revenue increased 8.9% to \$1,646.4 million in Q2 2024. The four-quarter CAE moving average increased 16%.
- **IC Physical Design and Verification** revenue grew 13.1% to \$779.3 million. The four-quarter moving average for the category increased 17.1%.
- **Printed Circuit Board and Multi-Chip Module (PCB and MCM)** revenue rose 8.2% to \$399.2 million. The four-quarter moving average for PCB and MCM rose 13.6%.

- **Semiconductor Intellectual Property (SIP)** revenue jumped 33.9% to \$1,680.7 million. The four-quarter SIP moving average rose 21.7%.
- **Services** revenue rose 30.8% to \$179.8 million. The four-quarter Services moving average rose 18.4%.

#### Revenue by Region – Q2 2024 Year-Over-Year Change

- The **Americas**, the largest reporting region by revenue, procured \$2,034.9 million of electronic system design products and services in Q2 2024, a 25% increase. The four-quarter moving average for the Americas rose 18.3%.
- **Europe, Middle East, and Africa (EMEA)** procured \$584.6 million of electronic system design products and services, a 14.8% increase. The four-quarter moving average for EMEA grew 16.3%.
- **Japan's** procurement of electronic system design products and services grew 26.4% to \$305.4 million. The four-quarter moving average for Japan increased 16.5%.
- **Asia Pacific (APAC)** procured \$1760.6 million of electronic system design products and services, an 11.2% increase. The four-quarter moving average for APAC grew 18.5%.

### *Honeywell Announces Plan to Spin Off Advanced Materials Business to Shareowners*

8 October 2024

Honeywell announced a plan to spin off its Advanced Materials business into an independent, U.S. publicly traded company, which is targeted to be completed by the end of 2025 or early 2026. Honeywell expects to execute the planned spin in a tax-free manner to its shareowners.

As a leading global provider of sustainability-focused specialty chemicals and materials, this pure-play business will be well-positioned to benefit from an enhanced strategic focus and the financial flexibility to pursue innovation and growth opportunities through investment cycles. Further, the planned spin-off will enable Honeywell to progress its strategic priorities of accelerating organic growth, evolving its Accelerator operating system, and optimizing its portfolio.

"Given the sustained market demand for advanced specialty chemicals and materials around the globe, we are confident now is the right time for this business to grow independently, leveraging its leading technologies and deep customer relationships. As a sector leader, this new company will have a greater strategic focus on innovation, enabling it to develop new, more sustainable solutions and products with next-generation chemistry to create further value for shareowners," said Vimal Kapur, Chairman and CEO of Honeywell.

Kapur added, "Today's announcement is the latest step in the optimization of the Honeywell portfolio, a key priority I laid out in my first year leading the company. Through the powerful combination of strategic bolt-on acquisitions and subtractions of high quality but non-core business lines, we continue to enhance our portfolio mix and further

tighten Honeywell's alignment to three compelling megatrends: automation, the future of aviation, and energy transition—underpinned by our Accelerator business models."

The planned spin-off is expected to create value for all stakeholders as both Honeywell and the Advanced Materials business will benefit from:

- A simplified strategic focus;
- A greater financial flexibility to pursue prioritized organic growth opportunities throughout investment cycles;
- An improved ability to customize capital allocation priorities in alignment with strategic focus; and
- Distinct investment profiles that position each company to unlock greater long-term value for shareowners.

### **Honeywell's Continued Simplification and Portfolio Optimization**

The planned spin-off of the Advanced Materials business follows four recent acquisitions Honeywell announced as part of its disciplined capital deployment strategy. The company is focused on high-return acquisitions that will drive future growth across its portfolio in alignment with the three powerful megatrends. In the past 12 months, Honeywell completed the acquisitions of: Carrier Access Solutions, Civitanavi, CAES and Air Products' liquified natural gas (LNG) business.

Honeywell is currently on pace to exceed its commitment to deploy at least \$25 billion toward high-return capital expenditures, dividends, opportunistic share purchases and accretive acquisitions through 2025, with approximately \$9 billion deployed towards acquisitions to date in 2024.

Following the completion of the planned spin of the Advanced Materials business, Honeywell will be positioned to further improve its organic sales growth, lower capital intensity, reduce cyclicity of sales and enhance free cash flow generation capability.

### **Advanced Materials**

Upon completion of the spin-off, the Advanced Materials business will be a sustainability-focused specialty chemicals and materials pure play with leading positions across fluorine products, electronic materials, industrial grade fibers, and healthcare packaging solutions. The business offers technologies that include the breakthrough low global warming Solstice<sup>®</sup> hydrofluoro-olefin (HFO) technology, which has helped avoid the potential release of the equivalent of more than 326 million metric tons of carbon dioxide into the atmosphere.[1] Additionally, the business manufactures a wide variety of high-performance specialty materials technologies ranging from Spectra<sup>®</sup>, a fiber used in high-end armor technology to protect in law enforcement and military applications, to Hydranal<sup>®</sup>, the most trusted brand in Karl Fischer titration, to Aclar<sup>®</sup>, a high-performance pharmaceutical packaging material critical to preserving prescription drugs and keeping them safe.

Advanced Materials is expected to have FY24 estimated revenue of between \$3.7 billion and \$3.9 billion with an EBITDA margin greater than 25%. As a standalone company with a large-scale domestic manufacturing base, it will be positioned to benefit from a compelling investment profile and a more flexible and optimized capital allocation strategy.

### Transaction Details

The planned spin-off transaction is targeted for completion by the end of 2025 or early 2026, subject to certain customary conditions, including, among others, the filing and effectiveness of applicable filings (including a Form 10 registration statement) with the U.S. Securities and Exchange Commission, assurance that the spin-off of the Advanced Materials business will be tax-free to Honeywell's shareowners, receipt of applicable regulatory approvals and final approval by Honeywell's board of directors. Approval by Honeywell's shareowners is not required.

The spin transaction will not impact Honeywell's FY24 guidance.

As the process progresses, Honeywell intends to provide additional information regarding the future management team and board of directors for the independent Advanced Materials company.

Goldman Sachs & Co. LLC is serving as financial advisor to Honeywell. Skadden, Arps, Slate, Meagher & Flom LLP is providing external legal counsel.

### Conference Call Details

Honeywell will discuss the transaction during an investor conference call starting at 8:30 a.m. Eastern Time today. A live webcast of the investor call as well as related presentation materials will be available through the Investor Relations section of the company's website ([www.honeywell.com/investor](http://www.honeywell.com/investor)). A replay of the webcast will be available for 30 days following the presentation.

### *IFS strengthens Executive Board with CIO and CHRO appointments*

7 October 2024

IFS, the leading provider of enterprise cloud and Industrial AI software, has made two senior appointments to its Executive Board. Helena Nimmo joins as global Chief Information Officer (CIO) and Debra McCowan as Chief Human Resources Officer (CHRO).

Nimmo joins from Endava, a US-listed global technology company with over 12,000 employees. As CIO at IFS, Nimmo will engage CIOs and tech leaders at IFS customers to help them with their strategic transformation journeys, as well as driving the effective application of technology within IFS to deliver better products and services to customers. With IFS leading the adoption of Industrial AI across the world, Nimmo will drive the integration of AI across the IFS community, enabling IFS customers to deliver exceptional moments of service to their clients.

McCowan was CHRO at NetApp, Inc., a Fortune 500 global data infrastructure, AI and cloud services company. In this board level role, McCowan was a strategic partner and advisor to the CEO and executive leadership team. As IFS rapidly grows beyond 7,000 employees in over 90

countries, McCowan will build on the HR transformation strategy IFS has already embarked on, to lead a high-performing global team, delivering progressive HR strategies and initiatives to rapidly grow and scale IFS's footprint.

"I'm delighted that Helena and Debra are joining IFS at such a pivotal point in its growth journey," said Mark Moffat IFS CEO. "Helena's leadership has been instrumental in orchestrating company-wide transformations, developing core technology infrastructures, and implementing robust security measures. Debra is a transformational Human Resources executive with years of global leadership experience in the technology sector, making her an excellent fit for this role. I look forward to the new perspectives and ideas they will both bring to IFS and support our global mission to lead the Industrial AI revolution."

Nimmo started her career at Nokia in Finland and has since held leadership positions in both customer-facing and internal technology functions at organizations including Symbian, Fujitsu and Thomson Reuters. "I'm delighted to be joining IFS, the world leader in cloud enterprise software and Industrial AI," said Nimmo, IFS's CIO. "I am excited to add my expertise to drive digital innovation and deliver exceptional value to our customers. I have a passion for technology and a commitment to excellence and am eager to contribute to IFS's continued growth and success."

Prior to NetApp, McCowan was the CHRO at Equinix the world's leading global data center and interconnection provider. She has held global executive leadership roles at Avago Technologies (now Broadcom Inc.), Hitachi Data Systems (now Hitachi Vantara), and Telstra Corporation.

"Joining IFS at a time of significant growth globally is a tremendous opportunity," said Debra McGowan, IFS CHRO. "My mission is to continue to build a conducive environment for diverse, strategically aligned high performing teams to connect and thrive in a fast-paced business and in a dynamic workplace. I look forward to this exciting challenge."

### *Infosys and Microsoft Expand Strategic Collaboration to Accelerate Customer Adoption of The Microsoft Cloud and Generative AI*

9 October 2024

Infosys, a global leader in next-generation digital services and consulting, announced an expansion of its collaboration with Microsoft to help accelerate customer adoption of generative AI and Microsoft Azure, globally. The strategic collaboration is aimed at helping Infosys' and Microsoft's joint customers realize the value of their technology investments and secure transformative outcomes.

Infosys and Microsoft's generative AI collaboration commenced when Infosys became an early adopter of GitHub Copilot, which enabled them to realize significant efficiencies in code modernization and completion. Infosys is a top GitHub Copilot "customer zero" with currently over 18,000 developers who have generated and used more than 7 million lines of code from Copilot. Coupled with its recently launched, an industry-first, GitHub Center of Excellence (CoE), Infosys is uniquely positioned to offer enterprise AI innovation to customers around the world.

In addition, Infosys was chosen as a strategic supplier to support Cloud and AI workloads for Microsoft's enterprise customers. Infosys will infuse Microsoft's generative AI suite of offerings across its Solution IP portfolio to bring unique capabilities to market, helping clients achieve cost-efficiency, scalability, and agility.

In conjunction with Microsoft's technology and its own industry-leading AI and Cloud suite of offerings, Infosys Topaz and Infosys Cobalt, as well as its AI-powered marketing suite Infosys Aster, the collaboration will help enhance customer experiences and drive the global adoption of enterprise AI.

The scope of this expanded collaboration will include:

- **Financial Services** – Infosys' domain expertise with Finacle, alongside Microsoft's advanced capabilities will enable financial institutions to engage, innovate, operate, and transform more efficiently.
- **Healthcare** – Infosys Helix, a next-gen healthcare payer platform built on Microsoft Azure, uses AI/ML automation to optimize patient outcomes, will provide access to care, and enhance constituent experiences, while streamlining processes and reducing costs.
- **Supply Chain** – This sector will see optimized processes and increased agility through the combined strengths of TradeEdge and Azure OpenAI service.
- **Telecommunications** – Microsoft's generative AI and Infosys Live Operations platforms will deliver enhanced connectivity and customer experiences.
- Infosys Energy Management Solution, coupled with Microsoft's commitment to sustainability, will accelerate the NetZero journey for customers.
- **Customer service** - Infosys Cortex, an AI-driven customer engagement platform, integrates Microsoft GenAI and Copilot to deliver specialized and individualized copilot assistance to every member of a customer service organization.

Many of these solutions will be available on Azure Marketplace, allowing customers to utilize their Microsoft Azure Consumption Commitment (MACC), creating a mutually beneficial market proposition.

As the collaboration grows, both companies are also focusing on sharing best practices for Responsible AI. Infosys is a key partner in The Microsoft Responsible AI Partner Initiative, contributing to the development of ethical AI guidelines through Infosys' Responsible AI (RAI) Office. Skilling efforts are also part of the collaboration, ensuring that the workforce is equipped with the necessary expertise to support these initiatives.

**Anand Swaminathan, EVP and Global Industry Leader - Communications, Media and Technology, Infosys**, said, "This collaboration addresses various business problems by delivering heightened value to clients through a customer-centric approach, providing scalability, agility, and cost-efficiency across key sectors like Finance, Healthcare, Supply Chain, and Telecommunications. As Infosys and Microsoft embark on this transformative journey

together, we are poised to redefine industry standards and empower organizations to thrive in the era of generative AI.”

**Nicole Dezen, Chief Partner Officer at Microsoft**, said, “Our expanded collaboration with Infosys will transform industries, enhance business operations, elevate employee experiences, and deliver new value for customers. Together, we will harness the power of generative AI to deliver innovative solutions, drive AI Adoption and enable unprecedented innovation for customers.”

### *NEC Corporation of America and Emu Analytics Collaborate to Bring Real-Time Digital Twin & Analytic Solutions to Global Aviation*

7 October 2024

NEC Corporation of America (NEC), a leader in advanced IT, biometrics, and analytics solutions, and Emu Analytics, a pioneer in digital twin software, are working together to transform airport and airline operations globally with NEC Airport Analytics. Enhanced with Emu Analytics' Digital Twin Flo.w software, NEC Airport Analytics will offer real-time situational awareness and dynamic visual insights, ensuring safer, more efficient airside operations.

#### **Bringing Real-Time Data to the Forefront of Aviation**

NEC and Emu Analytics are addressing the growing demands of airport operations by integrating diverse data sources, including live GPS flight movements, ground vehicle locations, and operational data from the Airport Operational Database (AODB). NEC Airport Analytics, combined with Emu Analytics' Flo.w digital twin platform, delivers a comprehensive, real-time view of airside operations, helping airlines and airports improve their on-time performance (OTP), stand planning, and sustainability metrics.

The system will enable users to revisit specific time points and track patterns of recurring behaviors, helping airports identify and address inefficiencies in aircraft dwell times, off-stand holds, and vehicle journey paths.

#### **Showcasing the Future of Aviation Technology at World Aviation Festival**

Have questions about NEC Airport Analytics? NEC and Emu Analytics will have teams of experts available at the World Aviation Festival in Amsterdam, from October 8-10, 2024. **Attendees can visit NEC and Emu Analytics at Stand 1.406** for an exclusive demonstration of our advanced solutions.

### *Schneider Electric Opens New North Haven Facility Focused on Modernization, Circularity for Aging Electrical Infrastructure*

8 October 2024

Schneider Electric, the leader in the digital transformation of energy management and automation, announced the opening of their newest facility in North Haven, Connecticut. Retrofit from an existing building, this state-of-the-art 90,000-square-foot all-electric facility demonstrates the company's focus on modernization and circularity, giving new life to the existing location.

Representing an investment of more than \$15M, the cutting-edge facility is a hub for the Schneider Electric Services group and home to more than half of the company's employees in Connecticut. Recently recognized as the world's most sustainable company, this facility is an example of Schneider Electric putting its principles into action, prioritizing circularity and modernization in its reconstruction, similar to the activities of the team located there, as an example for both customers and the community. This opening expands the Services group's capacity for retrofitting existing electrical devices with the latest digital, environmentally friendly technology, offering end user customers a less expensive, more sustainable and circular solution for their aging equipment.

"As companies seek to innovate and stay competitive in a rapidly evolving technological landscape, they often encounter the costly challenge of modernizing equipment to accommodate new power and infrastructure needs," said Aamir Paul, President, North America Operations, Schneider Electric. "Our new North Haven facility is designed to support the business needs of our Electric Services Group, enabling them to collaborate more effectively with customers in developing and implementing modernization strategies that prioritize circularity and sustainability."

The North Haven hybrid space includes a customer demo room, customer and employee training area, conference areas, collaboration spaces, and employee workstations. The building will include an on-site microgrid to maximize energy resiliency and a new electrical distribution infrastructure connected to Schneider's cloud-based asset monitoring platform, EcoStruxure Asset Advisor, which drives reliability through predictive analytics. Additional building automation platforms, including EcoStruxure Security Expert and Power Monitoring Expert will drive greater energy efficiency and control, while ensuring the comfort, safety, and security of all its occupants.

"The U.S. Services Group's mission is to be the trusted partner in resiliency, sustainability, and efficiency for our customers. Our North Haven is an integral piece of this strategy, providing modernization and circularity solutions for an aging infrastructure," said Jerome Soltani, Senior Vice President, Services, Schneider Electric. "Our ability to modernize and digitize critical infrastructure allows our customers to not only benefit from modern, sustainable solutions, but provides the digital backbone for creating safer, more resilient, and highly efficient operations for the future."

## Event News

### *First-Ever ENCY CAD/CAM Software Conference in Turkiye*

8 October 2024

*We are excited to invite you to the "Premiere of ENCY CAD/CAM Software in Turkiye" conference! This is your chance to explore innovative solutions that will revolutionize CNC machine and robot programming.*

**Location:** Radisson Blu Hotel & Spa, Istanbul Tuzla

Aydınlı, Camlibelde Sitesi Hasan Tokatlı Sokak 13, Yolu Cd No: 34, 34953 İstanbul, Türkiye

**Date:** November 15, 2024, from 9:00 AM to 6:00 PM

**Registration:** Free entry, but prior registration is required.

### Conference Highlights:

- **Andrey Kharatsidi**, CEO of ENCY Software, will introduce **ENCY** and **ENCY Robot**, presenting these groundbreaking CAD/CAM tools to the Turkish audience for the very first time.
- **Andrew Lovygin**, Channel Sales Director at ENCY Software, will showcase **ENCY Tuner**, our cutting-edge G-code simulator that simplifies and refines CNC machining workflows.
- Discover **ENCY Clouds**, our cloud-based platform for seamless collaboration between CAD/CAM programmers and machine operators, developed to minimize downtime and enhance technical support.
- Hear from our **technology partners**, who will unveil their latest innovations, share how they work with ENCY Software, and provide real-world examples of how our software is used to improve productivity.
- Learn from the **success stories** of Turkish companies already benefiting from the use of our software.
- There will also be a unique opportunity for **direct interaction** after the conference, allowing participants to ask technical questions, address any issues, and explore potential partnerships with the company's leadership team.

We have recently revamped our software distribution model in Türkiye, and our official Turkish distributor is now fully operational, offering dedicated local support, training, and exclusive offers tailored to Turkish businesses.

- Our **official distributor** in Türkiye will give insights into the ENCY software ecosystem, custom post-processor development, and how we can adapt the software to fit unique user requirements.
- They will also reveal **exclusive offers** on software upgrades and new ENCY licenses.
- Representatives from both ENCY Software and our Turkish distributor will be on hand to **answer any questions** you may have and offer demonstrations of the software.

### Why You Should Attend:

We encourage **current users** to attend and explore how ENCY can further improve their production workflows.

This is also an ideal event for **software providers** and **robot integrators** to learn how ENCY's solutions can open up new business opportunities for them in the Turkish market.

Additionally, we especially invite **CNC machine and industrial robot manufacturers** to participate in the event to explore potential technological partnerships with ENCY Software Ltd.

## *Lantek to Showcase Advanced Solutions at FABTECH 2024, Introducing Lantek iQuoting and v44*

7 October 2024

Lantek, a global leader in sheet metal software solutions, is set to present its latest innovations at FABTECH 2024, the premier event for the metal forming, fabricating, welding, and finishing industries. From **October 15-17**, attendees can visit **Lantek at Booth S17017**, located at the **Orange County Convention Center in Orlando**, to discover the cutting-edge advancements transforming the sheet metal industry.

At this year's event, Lantek will highlight two revolutionary solutions designed to enhance productivity and streamline operations for manufacturers:

### **Lantek iQuoting:**

A specialized, automated quotation system developed specifically for sheet metal companies. This powerful tool offers several advantages, including the ability to standardize quoting processes, reduce recruitment costs, improve customer experience, and leverage data to optimize efficiency. iQuoting integrates seamlessly with Lantek's broader suite of software solutions, ensuring full traceability and accuracy from the initial quote to the final product. Attendees will have the opportunity to explore how iQuoting can revolutionize their quoting workflows and boost their business performance.

### **Lantek v44:**

Marking a new chapter in factory digitalization, Lantek v44 introduces the concept of "Connect, Live, Smart," enabling factories to achieve full connectivity through advanced technology and AI-powered tools. With v44, Lantek enhances real-time data flow, decision-making, and operational transparency, empowering factories to be more efficient and integrated than ever before. This latest version offers improvements in production and inventory management, making it a key driver of productivity and profitability.

"At FABTECH 2024, we are excited to introduce our latest technologies that continue to push the boundaries of smart manufacturing. Lantek iQuoting and v44 demonstrate our commitment to providing advanced, integrated solutions that meet the evolving needs of the sheet metal industry," said Anupam Chakraborty, Commercial Director of Lantek USA.

Lantek's team of experts will be available at Booth S17017 to provide personalized demonstrations and discuss how these solutions can be tailored to meet the unique needs of attendees' businesses.

## *OPEN MIND at the Formnext 2024*

4 October 2024

OPEN MIND will be presenting its *hyperMILL*® CAD/CAM suite and the agile Hummingbird-MES at the Formnext exhibition from November the 19<sup>th</sup> to 22<sup>nd</sup>, at **Stand 120-A39, Hall 12.0**, at Messe Frankfurt am Main. The focus will be on *hyperMILL*® ADDITIVE Manufacturing, the CAD/CAM solution to control additive and subtractive processes. Visitors to the OPEN MIND

stand can find out about the latest technologies and see additive workpieces programmed and machined with *hyperMILL*®.

*hyperMILL*® ADDITIVE Manufacturing expands the possibilities of 5-axis simultaneous machining for the Direct Energy Deposition (DED) process and Wire Arc Additive Manufacturing (WAAM). The NC codes can be conveniently programmed and automatically simulated to avoid collisions. As an end-to-end software solution, *hyperMILL*® supports efficient hybrid machining that combines additive and subtractive processes on one machine.

### **Repairing instead of scrapping - with hybrid processing**

OPEN MIND will be demonstrating what additive, hybrid manufacturing can achieve at Formnext: even highly utilized parts can now be repaired using the hybrid machining process.

An illustrative example of this is a turbine blade. A blade was repaired on a HERMLE C 32 5-axis machining center using *hyperMILL*® with a Blum TC52 touch probe. This complex task includes the steps of blade inspection, removal of damaged area, material application, recording of shape and deformation, programming and machining. *hyperMILL*® VIRTUAL Machining makes this repair an efficient process. Based on the measured values, this software generates a digital twin of the workpiece and the machine situation for NC code simulation and optimization.

### ***PlanHub to Take Center Stage at NAHICA's ExpoContratista 2024 event this October***

4 October 2024

PlanHub, the premier cloud software platform for commercial construction entrepreneurs, will be a featured participant at NAHICA's ExpoContratista 2024 event in Atlanta, GA on October 4th and 5th. They will be hosting highly-anticipated seminars on both days of the event, as well as answering questions and offering live demos at booth #3602.

WEST PALM BEACH, Fla., Oct. 2, 2024 /PRNewswire-PRWeb/ — PlanHub, the premier cloud software platform for commercial construction entrepreneurs, has announced a major presence at NAHICA's upcoming ExpoContratista 2024 event, taking place in Atlanta, GA on October 4th and 5th.

As an extension of the company's ever-growing synergy with NAHICA, PlanHub will present two highly-anticipated workshops (beginning at 3 pm EST on both days) focusing on sharing invaluable strategies for growing your business. The Hispanic construction community plays a crucial role in the growth and success of our industry," said Ro Bhatia, PlanHub CEO.

Additionally, PlanHub will be present and available throughout the event at booth #3602 to chat with attendees and showcase the platform's latest tools. Team members will field questions, conduct live demos, and offer booth visitors a unique in-person opportunity to learn how they can save time and increase revenue by using PlanHub's all-in-one platform.

## Financial News

### *Cadence Announces Third Quarter 2024 Financial Results Webcast*

4 October 2024

Cadence Design Systems, Inc. will hold its third quarter 2024 financial results webcast on Monday, October 28, 2024 .

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

The webcast will begin Monday, October 28, 2024 at 2:00 p.m. Pacific Time. An archive of the webcast will be available online from 5:00 p.m. Pacific Time on October 28, 2024 until 5:00 p.m. Pacific Time on Friday, December 13, 2024 at [cadence.com/cadence/investor\\_relations](http://cadence.com/cadence/investor_relations).

### *Datasea Pre-announces Estimated First Quarter 2025 Fiscal Year Revenue of approximately \$22.7 Million, Up 230% Year-Over-Year*

10 October 2024

Datasea Inc. ("Datasea" or the "Company"), a Nevada-registered digital technology company focused on innovations in acoustics high-tech and 5G AI multimodal digital technologies, pre-announced that its revenue for the first quarter of fiscal year 2025, ending September 30, 2024, is expected to be approximately \$22.7 million. This represents an increase of approximately \$15.8 million, or 230%, compared to \$6.88 million in revenue for the first quarter of fiscal year 2024. The projected revenue almost matches the Company's full revenue for fiscal year 2024, which was approximately \$23.98 million. The strong revenue growth is primarily attributable to the rapid expansion of Datasea's 5G AI multimodal digital business in China.

Datasea's CEO, Ms. Zhixin Liu, commented: "Our 5G AI multimodal digital business continued to make progress in the first quarter, benefiting from the significant service contracts signed with several major clients since August 2024. We expect this business segment to maintain its growth momentum, with significant advances in both technology innovation and geographic expansion. We plan to continue expanding our market share moving forward by focusing on product diversification, expanding our key customer base, and advancing technology innovations." She further added: "We are also pleased to see our acoustic high-tech business gaining market recognition. Our products, aimed at creating healthier and safer living environments, are seeing improved market response as we implement our marketing and sales strategies."

### *DXC Technology to Report Fiscal 2025 Second Quarter Results on Thursday, November 7, 2024*

8 October 2024

DXC Technology announced that it will release its fiscal 2025 second quarter financial results on Thursday, November 7, 2024, at approximately 4:15 p.m. Eastern Time (ET).

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

A replay of the conference call will be available until 11:59 PM ET on November 14, 2024, at 800-770-2030 for domestic callers and at +1-647-362-9199 for international callers. The replay passcode is 4164760#. A transcript of the conference call will be posted on DXC Technology's [Investor Relations website](#).

### *Informatica to Report Third Quarter 2024 Financial Results on October 30, 2024*

9 October 2024

Informatica, a leader in enterprise cloud data management, announced it will report financial results for the third quarter 2024, which ended September 30, 2024, following the close of the U.S. markets on Wednesday, October 30, 2024. Informatica will hold a conference call on the same day at 2:00 p.m. Pacific Time (5:00 p.m. Eastern Time) to discuss its quarterly financial results.

The conference call can be accessed by dialing (833) 470-1428 from the United States or (404) 975-4839 internationally with access code 408713.

A live webcast and replay of the conference call and earnings presentation materials will be available on the investor relations page of Informatica's company website at <https://investors.informatica.com>.

### *Invitation to presentation of Hexagon's Interim Report on 25 October*

4 October 2024

Hexagon will release its Interim Report for the third quarter 2024 on Friday, 25 October, at approximately 08:00 CET. President and CEO Paolo Guglielmini will host a live webcast and telephone conference at 10:00 CET.

#### Webcast:

The webcast will be streamed [here](#).

#### Telephone conference:

Anyone interested in participating in the Q&A session following the first quarter Interim Report presentation must register [here](#).

1. Upon registering, each participant will be provided with a personal PIN and dial in information via email.
2. Access to the telephone conference will be available 10 minutes prior to call start time.

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

## *Procore Announces Timing of Third Quarter Fiscal Year 2024 Earnings Call and Announces Date for 2024 Investor Day*

10 October 2024

**Procore Technologies, Inc.**, the leading global provider of construction management software, announced that it will report its third quarter fiscal year 2024 financial results after the U.S. financial markets close on Wednesday, October 30, 2024.

In conjunction with this announcement, Procore will host a conference call on Wednesday, October 30, 2024 at 2:00 p.m. Pacific Time to discuss Procore's financial results and financial guidance. To access this call, dial +1 833 470 1428 (domestic) or +1 404 975 4839 (international). The conference ID number is 681120. A live webcast of this conference call will be available on the Investor Relations page of Procore's website, <http://investors.procore.com>, and a replay will be archived on the website as well.

The company also announced that it will host its 2024 Investor Day on Thursday, November 21, 2024 from 9:00 a.m. to 12:30 p.m. Mountain Time. This event will be held in conjunction with **Groundbreak 2024**, Procore's annual construction technology conference, taking place at the Colorado Convention Center in Denver, Colorado. Virtual participation for the Investor Day is also available via live stream.

The Investor Day will include presentations by Procore's CEO, founder and president Tooley Courtemanche, CFO Howard Fu, and other members of Procore's leadership team on Procore's industry, platform, and financials, followed by a live Q&A.

A live webcast of the event will begin at 9:00 a.m. Mountain Time on Thursday, November 21, 2024. Interested parties can access the webcast by registering [here](#). A replay of the webcast will also be made available on the Investor Relations page of Procore's website, <http://investors.procore.com>, following the event.

## *PROS Holdings, Inc. Announces Date of Third Quarter 2024 Financial Results Release, Conference Call, and Webcast*

8 October 2024

PROS<sup>®</sup>, a leading provider of AI-powered SaaS pricing, CPQ, revenue management, and digital offer marketing solutions, will release its financial results for the third quarter 2024 ended September 30, 2024, after the U.S. financial markets close on Tuesday, October 29, 2024.

PROS Holdings, Inc. will host a conference call on Tuesday, October 29, 2024, at 4:45 p.m. ET to discuss the company's financial results and business outlook. To access this call, dial 1-877-407-9039 (toll-free) or 1-201-689-8470.

The live and archived webcasts of this call can be accessed under the "Investor Relations" section of the Company's website at [www.pros.com](http://www.pros.com). A telephone replay will be available until Tuesday, November 5, 2024, at 11:59 PM ET at 1-844-512-2921 (toll-free) or 1-412-317-6671 using the pass code 13748298.

## *Simulations Plus Announces Fourth Quarter and Fiscal Year 2024 Earnings and Conference Call Date*

9 October 2024

Simulations Plus, Inc. (“Simulations Plus”), announced that it will report fourth quarter and fiscal 2024 financial results after the market close on Wednesday, October 23, 2024.

Management will host a conference call that same day at 5:00 p.m. Eastern Time to discuss the results. Investment professionals and all current and prospective shareholders are invited to join the live webcast by registering [here](#). The conference call can also be accessed by dialing 1-877-451-6152 (domestic) or 1-201-389-0879 (international) or by clicking on this [Call me™](#) link to request a return call. The webcast can be accessed on the investor relations page of the Simulations Plus website at [www.simulations-plus.com/investorscorporate-profile/corporate-profile/](http://www.simulations-plus.com/investorscorporate-profile/corporate-profile/) where it will also be available for replay approximately one hour following the call.

## *TCS’ Stable Q2 Demonstrates the Resilience of its Diversified Portfolio*

10 October 2024

Tata Consultancy Services reported its consolidated financial results according to Ind AS and IFRS, for the quarter ending September 30, 2024.

### **Highlights of the Quarter Ended September 30, 2024**

- Revenue at **US\$7.67 billion**, +6.4% YoY, +5.5% YoY in Constant Currency
- Operating Margin at **24.1%**; a decline of **0.2%** YoY
- Net Income at **US\$1.42 billion**, +3.8% YoY | Net Margin at **18.5%**
- Net Cash from Operations at **US\$1.4 billion** i.e **100.2%** of Net Income
- Workforce strength: **612,724** | Net Headcount addition of **5,726**
- Diverse and inclusive workplace: Women in the workforce: **35.5%** | **150** Nationalities
- LTM IT Services attrition rate at **12.3%**
- Dividend per share: ` **10.00** | Record date 18/10/2024 | Payment date 05/11/2024

**K Krithivasan, Chief Executive Officer and Managing Director**, said: “We saw the cautious trends of the last few quarters continue to play out in this quarter as well. Amidst an uncertain geopolitical situation, our biggest vertical, BFSI showed signs of recovery. We also saw a strong performance in our Growth Markets. We stay focused on sharpening our value proposition to our clients, employees and other stakeholders”.

**Samir Seksaria, Chief Financial Officer**, said: “We made strategic investments this quarter in talent and infrastructure to ensure sustainable growth. Our disciplined execution resulted in superior cash conversion. Our longer-term cost structures remain unchanged, and we remain confident in our ability to continue delivering industry leading profitable growth”.

**Milind Lakkad, Chief HR Officer,** said: *“We welcomed 11,000 associates in the first half of the year, and we remain on track for trainee onboarding as planned. We have also commenced the campus hiring process for FY26. Our strong talent base and increased learning intensity prepares us well for the complex technology transformations that customers entrust us with”.*

Q2 FY25 Segment Highlights

Growth by Domain

Industry	Composition (%)		Y-o-Y CC Growth (%)
	Q2 FY24	Q2 FY25	
BFSI	32.6	30.8	0.1
Consumer Business	15.9	15.1	0.1
Life Sciences & Healthcare	10.9	10.4	0.1
Manufacturing	8.6	8.6	5.3
Technology & Services	8.6	8.0	- 1.9
Communication & Media	6.9	5.9	- 10.3
Energy, Resources and Utilities	5.6	5.7	7.0
Regional Markets & Others	10.9	15.5	50.4
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>5.5</b>

Growth by Markets

Geography	Composition (%)		Y-o-Y CC Growth (%)
	Q2 FY24	Q2 FY25	
<b>Americas</b>			
North America	51.7	47.6	- 2.1
Latin America	2.0	1.8	6.8
<b>Europe</b>			

UK	16.5	17.0	4.6
Continental Europe	14.9	14.6	1.8
<b>Asia Pacific</b>	7.8	8.0	7.5
<b>India</b>	4.9	8.9	95.2
<b>MEA</b>	2.2	2.1	7.9
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>5.5</b>

**Services:** Clients prioritized initiatives that accelerate customer acquisition, modernizing digital core including ERP platforms and improve enterprise observability, regulatory compliance and security posture.

While discretionary spends were impacted, clients continued to invest and see improved outcomes using AI/GenAI. We are setting up interdisciplinary AI offices/CoEs to strategize, prioritize and implement AI at scale.

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

Win themes across key deals involved vendor consolidation, managed services, UX transformation, technology simplification, legacy modernization, enterprise network transformation, automation and GenAI initiatives.

**AI.Cloud:** We are seeing continued momentum in AI/GenAI adoption, with the underlying technology gaining maturity at a very rapid pace. There are now over 600 AI/GenAI engagements deployed successfully in production or in various phases of development. Our customers are increasingly concentrating on integrating AI throughout their entire enterprise value chain, rather than working on isolated use cases. We are also enabling AI/GenAI capabilities across our suite of product and solutions. We are continuing to deepen our skillsets across our workforce through platforms like AI Experience Zone and TCS WisdomNext™. On Cloud front, we continue to see good growth in Legacy Modernization, Data Platform Modernization and Technology Landscape Simplification.

**Cyber Security:** Clients continue to up their spend on improving their security posture. Our offerings aimed at security guardrails for AI/GenAI adoption are seeing good traction. Governance, Risk & Compliance (GRC), Vulnerability Management, Identity and Access Management and Cloud Security were top areas of growth. We are also seeing traction for Security Operations transformation, Ransomware resiliency and Secure GenAI.

**TCS Interactive:** The interactive services saw continued growth for this quarter. Marketers are focusing on customer acquisition, retention and product differentiation. This presents us opportunities in areas such as harnessing data to uncover valuable consumer segments, improving CX, creating personalized content, and ensuring adtech/martech are providing the

best ROI for the business. Among many of our clients, the remit of CMOs is expanding to include digital transformation. Spending has improved slightly over the quarter, and marketers are looking for better ROI for their investment using technology, data and AI.

**IoT & Digital Engineering:** IoT & Digital Engineering continues to see demand driven by Factory of the Future (Smart Manufacturing), OT Modernization, Intelligent Product Engineering, Connected Services & Connected Assets, and Sustainability. Key services that saw traction during the quarter included MES and Industry 4.0, IOT Platform Services and Digital Engineering. IoT driven transformation across connected devices and manufacturing is seeing higher adoption, demand is growing for Industrial AI (Digital Twins) combined with GenAI. Among industry groups, TSS and LSHCERU saw greater traction.

**Enterprise Solutions:** Clients continue to invest in their ERP modernization. They are partnering with TCS in their business and CX transformation journey for solutions in supply chain optimization, claim modernization, sustainability and reimagining sales & service channels. GenAI saw good traction across industries. Our transformation approach, along with our contextual knowledge and industry pre-configured solutions including TCS Crystallus™ are enabling customers to accelerate their growth and transformation journeys. We continue to invest and strengthen our joint go-to market approach with our partners.

**Cognitive Business Operations:** During this quarter, we saw multiple large wins across IT Infrastructure and business operations with robust TCV closure powered by Cognix™ led operating model transformation. Key trends witnessed were vendor consolidation, employee experience enhancement, workplace transformation, network reimagination and first-time outsourcing. Good traction in business process services, with Banking, Insurance, Cards and Supply Chain operations doing well.

#### Key Highlights

- Partnered with the **Sydney Marathon**, Australia's largest marathon for a five-year partnership, which will see TCS leverage its expertise to enhance the marathon's use of advanced technologies, sustainability, accessibility, and charitable impact while continuing to support running and wellbeing across Australia.
- Expanded partnership with **Rolls-Royce**, a British multinational specializing in civil aerospace, defense aerospace, services and power systems, to advance its sustainable initiatives and involves research into hydrogen fuel system technology. TCS will leverage its deep domain knowledge of the aircraft manufacturing industry and will support the engineering activities of Rolls-Royce such as system design, component design, supply chain support and program management.
- **ASDA** has recently partnered with TCS to enhance its IT operations by streamlining its IT infrastructure service landscape. This collaboration aims to improve ASDA's customer experience while strengthening its digital operations. The partnership is positioned to elevate overall customer satisfaction and support ASDA's ambition to become the 2nd largest retailer in the UK.

- Selected by **Banco de Crédito del Perú (BCP)** to transform their IT technology landscape. As part of the partnership, TCS will bring its digital offerings and industry-leading capabilities from AI.Cloud, Modernization and Banking business units to help BCP meet its strategic vision and deliver 100% digital customer experience. With the expanded partnership, TCS will continue to create value-driven outcomes for BCP, while supporting its strategic growth objective to continue be a transformative and innovative leader in the region.
- Selected by a **leading global financial institution** headquartered in Chicago, Illinois, for end-to-end application management and support for its Hedge Fund Administrator platform. As part of the engagement, TCS will take complete ownership of incident management, while ensuring proactive monitoring, implementing new alert mechanisms, and enabling seamless collaboration across the multi-vendor environment. The partnership will help the firm foster a culture of accountability and drive operational efficiency with optimal outcomes.
- Selected by **Follett Higher Education**, North America's leading college store operator, to strengthen its information technology infrastructure and cybersecurity services. TCS will create an enhanced IT infrastructure that better supports Follett's innovative academic and retail experiences for colleges and universities across the US and Canada, by deploying trademark platforms and solutions, such as TCS Cognix™ and Cloud Exponence.
- Announced a strategic collaboration with **TÜV SÜD Middle East**, a leading provider of testing, inspection, certification and training services, to accelerate the carbon management and sustainability journeys of its customers in the Middle East with tailored solutions for ESG, available on the TCS Zero Carbon Platform, which is a proprietary digital solution that helps organizations manage and monitor their carbon footprints and adopt sustainable business practices.
- Launched **TCS Pace Studio in Stockholm, Sweden and Manila, Philippines**, to offer its customers in the Nordics and APAC region, exclusive access to its innovation ecosystem. The state-of-the-art innovation hub and research centre will enable enterprises to explore the latest advancements in technology and deploy them at scale to accelerate their digital transformation journeys boosting digital innovation.
- Selected by **Primark**, a leading international fashion retailer across 17 countries in Europe and the US, to transform its technology operations to support the retailer's ambitious plans for global growth over the next five years.
- Entered a strategic partnership with **Mansfield Building Society in the UK** to digitally transform its business. TCS will deploy its state-of-the-art digital banking solution, TCS BaNCS™ for Core Banking, along with its Digital Home Lending Solution, to enhance member and intermediary experiences and support Mansfield's ambitious growth plans.
- Selected by **Qantas**, for Managed services of Airline's Technology Domains including Airline Experience, Airline Operations, Commercial Airline Technology, Corporate &

Business to Customer, TCS will drive an operating model transformation to transition their operations to a product-centric operating model towards maximizing the benefits from cloud transformation. Leveraging over 18 years of deep contextual knowledge about the client's business landscape, TCS will enhance operational resilience for Next Gen IT Operations and foster a faster rate of innovation. This comprehensive multi-year engagement will enable Qantas to achieve operational excellence. TCS will also leverage the emerging AI technologies to improve automation levels, helping the client achieve significant cost savings and efficiency.

- George Yang-led Golden Arches Development Corporation (GADC), the master franchise holder of **McDonald's** in the Philippines selected TCS to standardize and digitize the IT operations for its 760+ restaurants. TCS will implement an advanced upgrade to the cloud (SAP S/4HANA on RISE), by harnessing its deep industry expertise and contextual knowledge in SAP-led business systems transformation, TCS will upgrade the IT infrastructure of GADC, resulting in better insights, improved decision-making, and optimized operational performance.
- Launched a **new delivery centre in Warsaw, Poland**, expanding its operations in the country. With the new delivery centre, TCS expects to double its workforce to 1200-plus in a year to support its further growth in the region and showcase its capabilities across industries and technologies.
- TCS partnered with one of the **largest ground handling companies** based in Europe, to help them improve their cybersecurity maturity and reduce risk exposure. TCS enabled comprehensive visibility of the enterprise cyber-risk landscape, which enabled the customer to measure the efficacy of their security operations, establish better control and governance on key security programs and track their returns on cybersecurity investments.
- **Openreach**, UK's largest telecom infrastructure company has selected TCS as its strategic partner for the business operation transformation of their national roll-out of next-gen fibre networks. This managed services deal solidifies our role as a trusted partner in Openreach's E2E FTTP network transformation journey, delivering superior services for their flagship broadband business (Ethernet) customers, while optimizing cost of network builds, minimizing truck rolls and shortening of production cycles. TCS will harness its unparalleled contextual expertise and domain knowledge of GenAI and cloud-led innovations to deliver efficient operations, elevate customer experience, drive superior business outcomes and help Openreach connect customers' faster.

#### Customer Speak

"To help support our ambitious growth plans we're expanding our partnership with TCS to build a robust, resilient, and reliable IT operating environment to become a more efficient, technology-led global organization with the agility to quickly adapt to changing demands and requirements in a fast-paced industry. Working with TCS will provide us with the ongoing operational stability and accountability needed to support our business to scale. This will allow us to respond to market trends and customer preferences in a timely manner, ensuring that we

continue to deliver quality products at the best value for our customers.”

**Andrew Brothers, Chief Information Officer, Primark**

“We welcome TCS to our hydrogen research programme and their engineering skills will play a valuable role in addressing our technology goals. We’ve already made great progress and having TCS with us gives us additional capability as we move forward on our journey to enable the energy transition for the aviation sector.”

**Alan Newby, Director, Research and Technology, Rolls-Royce**

"Building on our extensive experience in global climate change initiatives, we are pleased to collaborate with TCS to assist organizations across the Middle East in their sustainability efforts. Leveraging our expertise and TCS Zero Carbon Platform, we aim to help businesses effectively manage carbon emissions and make informed, sustainable decisions."

**Mostafa Jassim, Deputy CEO, TÜV SÜD Middle East**

“We pride ourselves on our excellent service and personal approach and, therefore, finding a partner that can support our physical branch operation and provide a state-of-the-art digital experience is critical in ensuring that we meet the needs of all our members now, and in future. After a strenuous selection process, it was clear that there was only one solution which met all our requirements, especially when you consider TCS’ experience of delivering successful transformation programs, their ethical approach to business, and their relationship with existing clients which dovetails well with our mutual ethos and core values.”

**Iain Lister, IT Executive, at The Mansfield**

“This partnership with TCS is another step in our continuous digital transformation. The implementation of SAP S/4HANA on RISE will provide us greater agility through data-driven insights, enabling us to continuously improve our customer and employee experience.”

**Margot Torres, Managing Director at GADC**

“Croma’s vision is to be number one in customer experience and satisfaction. Many of today’s shoppers want to learn and shortlist products online—so when they arrive at the store, they can select the right items, check out, and be on their way out. Crafting a seamless, delightful omnichannel journey is, therefore, an imperative for us, and OmniStore is key to enabling it. We have enjoyed our unique and truly integrated partnership with TCS to co-develop and co-innovate multiple aspects of the customer experience, and that’s exactly what we needed to succeed in an ambitious initiative like this.”

**Shibashish Roy, Deputy CEO, Croma**

“At Follett, we believe every interaction a student has with us contributes to their potential for success. That’s why our partnership with TCS is crucial, along with a well-structured governance and accountability matrix. Working as a united team, we are eager to build a best-in-class technology backbone so we can make every touchpoint with our customer seamless, scalable, and fit for purpose, well into the future.”

**Prasad Keshava, Vice President of Enterprise Infrastructure for Follett Higher Education**

Research and Innovation

As on **30th September 2024**, the company had applied for **8,354** patents, including **160** applied during the quarter and been granted **4,369** patents including **223** granted during the quarter.

Human Resources

TCS’ workforce stood at **612,724** as on September 30<sup>th</sup>. The employee base is very diverse, with **35.5%** women and with **150** nationalities.

TCSers have clocked **26.1 million** learning hours and acquired **2.6 million** competencies YTD. IT services’ attrition was at **12.3%** for the last twelve months.

***WIPRO LIMITED TO ANNOUNCE RESULTS FOR THE SECOND QUARTER ENDED SEPTEMBER 30, 2024, ON OCTOBER 17, 2024***

8 October 2024

Wipro Limited a leading technology services and consulting company, will announce results for the second quarter ended September 30, 2024, on Thursday, October 17, 2024, 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 7:00 PM IST\* (9:30 AM US Eastern time) following the results announcement, the senior management will discuss the company’s performance for the quarter and answer questions sent by 6:30 PM IST\* (9:00 AM US Eastern time)

to: [dipak.bohra@wipro.com](mailto:dipak.bohra@wipro.com) or [abhishek.jain2@wipro.com](mailto:abhishek.jain2@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=WIP190424>

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

<p><b>Time</b></p>	<p><b>7.00 PM - IST* (9:30 AM-ET#)</b></p>
<p><a href="#">Click here for the diamond pass link</a></p> <p>Diamond 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.</p>	
<p>Primary Access Toll Number</p>	<p>+91 22 6280 1120                  +91 22 7115 8021</p>

US Toll-Free Number	1 866 746 2133
Singapore Toll-Free Number	800 101 2045
UK Toll-Free Number	0 808 101 1573
Hong Kong Toll-Free Number	800 964 448
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 the following numbers.

**Call Playback Numbers:**

	Phone Number	Passcode/Conference ID	Replay Dates
India	+91 22 71945757	Access Code: 947765	17-Oct-24 to 24-Oct-24
Toll Free USA	+1 8332898317	Access Code: 947765	17-Oct-24 to 24-Oct-24

## Implementation Investments

### *Altair and Technical University of Munich Discover Breakthrough in Quantum Computing for Computational Fluid Dynamics*

9 October 2024

Altair, a global leader in computational intelligence, and researchers from the Technical University of Munich have made a major breakthrough in the field of quantum computing for computational fluid dynamics (CFD). The breakthrough, published in the journal Computer Physics Communications, presents runnable code for quantum computers and quantum simulators that overcomes several key challenges of the quantum computing implementation of the Lattice-Boltzmann Method.

The paper, titled “Quantum Algorithm for the Lattice-Boltzmann Method Advection-Diffusion Equation,” was developed under a research grant from Altair and driven by researchers from the Technical University of Munich. It is a significant contribution to the field of applied quantum computing that underscores Altair’s commitment to pioneering technologies. The paper was co-authored by Altair Vice President of CFD Solutions Christian Janssen and former Altair Chief Technology Officer Uwe Schramm.

"Altair is committed to pushing the boundaries of simulation technology," said Christian Janssen, vice president of CFD solutions, Altair. "Our GPU-powered CFD tools have set the standard for efficiency and accuracy. Now, we're exploring the revolutionary potential of quantum computing to tackle even more complex simulations, opening up new possibilities for innovation in product design and engineering."

The research presents, for the first time, a generic quantum CFD algorithm for three-dimensional CFD. The algorithm has the potential to bring fully nonlinear three-dimensional CFD to the quantum world. This is a game changer for next-generation CFD and simulation-based design as the findings demonstrate the tremendous possibilities in terms of model size and scalability that quantum computing offers compared to classical computing. It also reinforces that quantum computing isn’t just theoretical but will become a practical tool to tackle real-world problems. It opens a new realm of possibilities in fields traditionally governed by classical physics, like CFD, by enabling the practical application of quantum computing.

The project’s objective was to develop an algorithm for quantum computational fluid dynamics (CFD) using the Lattice-Boltzmann Method. Making classical CFD compatible with quantum mechanics allows users to leverage quantum computing's superior processing power for simulations that are exponentially faster and potentially more accurate than classical computations.

Because of its potential to exponentially increase computing speed and enable more complex simulations, quantum computing is expected to have a substantial impact on product development within many industries, namely healthcare, finance, and the natural/life sciences.

“This is an important discovery for both our team and the Altair researchers, one that has the potential to open a new dimension of quantum computing,” said Nikolaus Adams, professor and chair of aerodynamics and fluid mechanics, Technical University of Munich. “We have presented the building blocks for a new generation of quantum computing algorithms, which will hopefully bring more practical quantum computing applications to the forefront in both industry and academia.”

As discussed in a similar paper by the same group of researchers, today’s quantum computing algorithms are developed at the deep machine level by designing quantum circuits. Classical CFD is non-unitary and non-linear, while quantum formulations are unitary and linear. The research found a unitary transformation for classical CFD in addition to developing a machine learning approach for the non-linear aspect.

The paper’s authors include the Technical University of Munich’s David Wawrzyniak, Josef Winter, Steffen Schmidt, Thomas Indinger, and Nikolaus A. Adams, alongside Janssen and

Schramm. All quantum computing was performed at the Leibniz Supercomputing Centre, near Munich, Germany, on the Atos QLM system.

This research is the latest in a string of developments catalyzed by Altair's investment in quantum computing. Notably, Altair has also invested in Riverlane, a company specializing in making quantum computing more robust and more practical by solving quantum error correction (QEC) challenges. Headquartered in Cambridge, U.K., Riverlane was founded in 2016 and is known for Deltaflow, a unique QEC stack helping quantum computers reach sufficient scale to execute the first error corrected quantum applications.

### *City of Austin Partners with Archistar to Revolutionise Building Permit Approvals*

9 October 2024

The City of Austin is taking a bold step towards the future of urban development by partnering with Archistar, a leader in AI-driven property technology. This landmark collaboration will enhance Austin's building permit assessment process, making it faster, more efficient, and more cost-effective for both developers and the community.

#### How AI is Transforming Permit Approvals

The traditional process of reviewing and approving building permits has long been a complex and time-consuming challenge. Multiple re-submissions, inconsistent quality of submissions, and costly delays are common pain points for city planning authorities, developers, and property owners alike. The new partnership between Archistar and the City of Austin aims to address these issues head-on with the deployment of Archistar's automated building permit assessment platform.

#### eCheck Technology: A Game Changer in Compliance

At the heart of this transformation is Archistar's eCheck technology. When an applicant submits their design, the eCheck platform automatically reads the drawings and evaluates them against digitised planning and building codes. This automated compliance check generates a comprehensive, standardised report, which is then included with the permit application, ensuring that it meets the required standards from the outset.

This streamlined, data-driven approach not only simplifies the complexity of regulatory frameworks but also accelerates decision-making, reducing the back-and-forth between applicants and city officials. By providing an independent, consistent initial audit check, the technology improves the quality and consistency of submissions, which benefits both developers and city planning authorities.

#### Overcoming Common Permitting Challenges

Permitting processes in rapidly growing cities like Austin face a range of challenges:

- **Inconsistent Submission Quality:** Applications often vary significantly in their completeness, leading to delays and increased workload for city staff.

- **Multiple Re-Submissions Due to Non-Compliance:** Applicants are frequently required to re-submit their applications to address issues of non-compliance, further delaying projects.
- **Costly Delays:** The extended timeline for permit approvals can lead to increased costs for developers, including holding costs and project overruns.

Archistar's solution aims to tackle these issues head-on by providing automated compliance checks, ensuring that submissions are reviewed faster and more consistently, and reducing the need for repeated revisions.

#### The Benefits for the City of Austin

The benefits of the Archistar and City of Austin partnership extend far beyond just speeding up the permitting process. The implementation of Archistar's platform promises:

- **Faster Permit Approvals:** Streamlined reviews will significantly cut down approval times, allowing for more rapid project kick-offs and faster housing development.
- **Reduced Rework and Fewer Delays:** Automated assessments mean fewer revisions are needed, leading to lower friction between applicants and city staff.
- **Increased Transparency and Consistency:** By providing an independent audit and standardising all submissions, the platform ensures greater transparency and fairness throughout the process.
- **Improved Experience for Stakeholders:** Developers, homeowners, and city planners will all benefit from a more predictable, efficient permitting process, resulting in better overall satisfaction.

#### A Vision for the Future of Urban Development

With the deployment of Archistar's platform, the City of Austin is setting a new standard for how building permits are managed. This partnership positions Austin as a leader in digital transformation within city planning, helping to bring more efficiency to the entire urban development ecosystem. Furthermore, Austin's participation in a broader pilot program involving ten cities across the U.S. and the International Code Council highlights the potential of this technology to shape the future of building code compliance across the country.

#### Leading the Way with AI

The City of Austin's partnership with Archistar is a significant step towards reshaping the way cities approach building permits and urban planning. By leveraging AI-powered solutions, Austin is taking the lead in reducing delays, cutting costs, and improving the experience for developers and the community alike.

With over 30 cities worldwide now piloting or using Archistar's platform, this partnership is not just about transforming Austin—it's about setting a new benchmark for cities around the globe to create a more efficient, transparent, and technology-driven approach to development.

## *COMME MOI Embraces Digital Transformation with Centric PLM*

10 October 2024

Centric Software® is pleased to announce that womens fashion brand COMME MOI has selected Centric PLM™ to enhance R&D collaboration and drive innovation. Centric Software provides the most innovative enterprise solutions to plan, design, develop, source, buy, make, price, allocate, sell and replenish products such as fashion, outdoor, luxury, footwear, outdoor, home and related goods like cosmetics & personal care as well as multi-category retail to achieve strategic and operational digital transformation goals.

Founded by supermodel Lv Yan in 2013, COMME MOI is a fashion brand dedicated to modern, urban women. COMME MOI aims to provide women with fashion choices that are comfortable in fabric, refined in silhouette and modern in design, suitable for seamless transitions between their professional and personal lives.

COMME MOI has grown in popularity to become a leading designer brand, and is also at the forefront of digital transformation in the industry. COMME MOI has chosen to partner with Centric Software to achieve their goals of digitalizing spreadsheets, enhancing work collaboration and clarifying data, thereby significantly improving team efficiency.

Lv Yan, Founder and Creative Director of COMME MOI, explains, “We had been exploring various team collaboration management tools and looking for the most suitable solutions for our current scale. We realized that a professional product lifecycle management solution could meet our needs at different stages.”

COMME MOI recognizes Centric’s extensive experience with customers in the fashion industry, both domestically and internationally, and highly appreciates Centric’s deep industry insights and best practices in PLM applications. As a result, COMME MOI chose to partner with Centric to launch the PLM project.

“We are very open to adopting new technologies and believe that a professional PLM system can help us create more popular products!” says Ms. Lv Yan.

In line with the brand’s expectations, Centric will provide maximum support to COMME MOI in building digital R&D infrastructure, accumulating experience and data and enhancing team capabilities. With Centric PLM in place, COMME MOI aims to establish a digital shared platform, achieve data standardization, standardize business operations and create a digital visual board to accelerate the product development process.

Fabrice Canonge, President of Centric Software, says, “COMME MOI is an innovative fashion brand, and we are honored to be their PLM partner. We look forward to the successful launch of the PLM project and to providing digital expertise for their future business development.”

## *Faryl Robin Steps Up Efficiency with Centric PLM*

8 October 2024

Centric Software® is pleased to announce women’s footwear brand Faryl Robin has selected Centric PLM™ to drive greater efficiency and streamline data management. Centric Software

provides the most innovative enterprise solutions to plan, design, develop, source, buy, make, price, allocate, sell and replenish products such as fashion, luxury, multi-category retail, grocery, food & beverage, cosmetics & personal care and consumer electronics to achieve strategic and operational digital transformation goals.

Founded in 2000 by footwear designer Faryl Gilston, Faryl Robin is dedicated to offering accessible, fashionable and comfortable footwear for women. Collaborating closely with leading retailers, Faryl Robin designs and develops bespoke footwear collections, producing over 1,000 unique SKUs annually. Major retail giants like Walmart, Target and Amazon Essentials are primary customers highlighting the brand's commitment to quality and innovation.

With volumes of product-related data to juggle, Faryl Robin decided to invest in a PLM solution to systematize data management and empower more informed decision-making.

"We wanted to build a database to better collect information around the work that we're doing. As we move towards a world where AI and reporting tools are becoming more sophisticated, we need to keep pace internally with the data we're collecting," explains Gabe Biolos, head of Innovation & Technology at Faryl Robin. "PLM is a piece of digital infrastructure that will not only enhance our workflows today, but help us realize some of our longer-term innovation goals as well."

After carefully evaluating options, Faryl Robin was drawn to Centric PLM for its user-friendly interface. "We chose Centric because it has a flexible configuration that we can shape to our needs," says Biolos. As the most configurable PLM software available, Centric PLM allows adjustments on the fly to meet the evolving demands of teams and products. Adaptability ensures the Centric PLM platform remains effective and aligned with specific and unique team requirements.

The implementation of Centric PLM promises to bring significant improvements to communication within Faryl Robin, both internally and with external stakeholders. Biolos envisions a future where common design libraries and assets are shared across the company reducing inefficiencies. "We'll have better visibility, be able to ensure versions are stored more effectively and have fewer email chains for feedback, which will help us be more efficient," he explains.

Integrating Faryl Robin's vendors into Centric PLM is expected to streamline collaboration and significantly boost the company's sustainability initiatives. By leveraging Centric PLM's material tracking capabilities Faryl Robin can monitor and manage their resources more effectively. "Integrating with our vendors will enable us to have a greater level of transparency and supply chain-focused information to support our sustainability initiatives," Biolos adds. This enhanced data-driven approach is a key step toward fostering stronger partnerships and achieving the company's long-term sustainability goals.

As the partnership with Centric PLM unfolds, Biolos is optimistic about the transformation it will bring to Faryl Robin. "Faryl Robin has been going through a lot of positive change over the past

few years. In another year or two, it feels like we'll be operating in a really different, much more streamlined way, so stay tuned!" he concludes, excited about the future possibilities.

"We're very happy to announce that Faryl Robin has selected Centric PLM," says Chris Groves, CEO of Centric Software. "We look forward to working with the Faryl Robin team to create a strong digital foundation that will enable them to build greater efficiency, collaboration and productivity throughout the business."

### *Freyabadi Indotama boosts chocolate manufacturing agility with Siemens Xcelerator*

10 October 2024

Siemens Digital Industries Software announced that Freyabadi Indotama (Freybadi), one of the largest chocolate manufacturers in Indonesia and a trusted supplier of chocolate in the Asia-Pacific, Middle East and African regions, has adopted the Siemens Xcelerator portfolio of industry software to optimize its manufacturing and production processes.

"Our large production capability and flexibility enable us to meet the demands of the chocolate industry at various scales - from micro to multinational – and we needed a solution that would support us in optimizing our production schedules. Our work with Siemens and Opex Consulting Group has allowed us to digital transform our production scheduling and maintain the agility we need to serve our customers," said Adi Christian, project & engineering manager, Freyabadi Indotama

Freyabadi manufactures chocolate, sourcing the cocoa raw materials from reputable producers in Africa, Asia and South America, to create the flavor profile desired by its local consumers. It currently manages over 1,500 SKUs from raw material to finished goods and needed a comprehensive scheduling solution that could cater to its complicated process, parameters and help to accommodate sudden changes – alongside a requirement for a digital batch record of raw material usage, integrated with its ERP system.

To help overcome these challenges, Freyabadi has adopted Opcenter™ Advanced Planning and Scheduling software (APS) from Siemens to enhance its production scheduling, citing the build-in change over algorithm that helps the company minimize change over time and increasing production capacity as driving factors. It has also adopted the Mendix™ low-code platform to automate its data collection during chocolate production, helping to ensure that the data is synchronized between Opcenter APS and the company's ERP system.

"We're thrilled to support Freyabadi's digital transformation journey by implementing Opcenter Advanced Planning and Scheduling and Mendix in their production processes. This collaboration marks a significant step towards optimizing their manufacturing operations, enhancing agility, and addressing the complexities of modern production," said Alex Teo, managing director and vice president, South East Asia, Siemens Digital Industries Software. "By leveraging our advanced technologies, Freyabadi is prepared to overcome their production challenges, enabling more efficient and reliable delivery of their high-quality chocolate products to the

global market. Together we're not just improving processes but setting a new standard in the confectionery industry."

## *Infosys and zooplus Collaborate to Drive Digital Transformation and Enhance E-Commerce Capabilities*

10 October 2024

Infosys, a global leader in next-generation digital services and consulting, announced a strategic collaboration with zooplus, a leading European e-commerce company based in Munich, Germany, to enhance its service capability and scalability. The collaboration will establish a state-of-the-art Global Capability Center (GCC) in Hyderabad, India.

zooplus will leverage Infosys Topaz, an AI-first offering using generative AI technologies, that will aim to help the company drive AI innovation and growth transform e-commerce capabilities, and enhance operational efficiency. The collaboration will also help improve its marketing, e-commerce, and supply chain capabilities. It will support zooplus by enhancing its expertise in product management, technology, quality, design, and engineering; and set up a new order management system.

Infosys was selected for its unique AI-first strategy and its commitment to driving improvements in productivity while achieving cost efficiencies. The GCC will leverage Infosys' data-driven excellence and innovative capabilities to play a pivotal role in transforming zooplus' customer experience, significantly enhancing their technology and value chain capabilities.

**Geoffroy Lefebvre, Chief Executive Officer, zooplus SE**, said, "At zooplus our growth strategy has always been focused on leveraging data-driven insights to meet our customers' demands. Our collaboration with Infosys to establish our new technology hub is a strategic decision driven by their AI-first strategies combined with expertise in delivering AI-powered solutions, with Infosys Topaz. We are confident that through this collaboration we will unlock greater operational efficiencies, enhance customer experience, and stay ahead in the competitive e-commerce landscape."

**Karmesh Vaswani, Executive Vice President & Global Head of Consumer, Retail & Logistics, Infosys**, said, "At Infosys, we believe in harnessing the power of technology to drive innovation enabling profitable and sustained future growth. Collaborating with zooplus to establish this new GCC in Hyderabad underscores Infosys' commitment to driving digital transformation at scale for our clients. By leveraging Infosys Topaz, we will empower zooplus to realize their full potential and also position them at the forefront of excellence in digital commerce and marketing."

## *Infosys' Collaboration with Old National is Accelerating the Bank's Operational and Technological Transformation*

8 October 2024

Infosys, a global leader in next-generation digital services and consulting, and Old National Bank, the sixth largest commercial bank headquartered in the Midwest, recently entered into a

strategic expansion of their four-year collaboration. This deepening of a highly successful relationship enables Old National to leverage Infosys services, solutions and platforms for operations transformation and process digitization powered by automation and GenAI, and transformation of key business areas.

Since 2020, Infosys has helped Old National modernize its digital landscape using a highly efficient, self-funding model. The resulting uplift in stability, resiliency and improved client experience has served to accelerate and sustain Old National's growth.

**Jim Ryan, Chairman & CEO, Old National Bank**, said, "At Old National, we are committed to creating exceptional client and team member experiences. Infosys is expertly guiding us through business process enhancements, with a strong emphasis on efficiency and value generation. We greatly appreciate Infosys' commitment to our growth and success."

**Dennis Gada, EVP and Global Head of Banking and Financial Services**, said, "Old National Bank and Infosys share a strong cultural and strategic alignment in developing, managing, and enhancing enterprise-scale solutions to transform the bank's operations and support growth. We are excited to further accelerate Old National Bank's business process and customer care transformation using Infosys Topaz. Our extensive experience in domain, technology, and operations, specifically for mid-sized and regional banks, will continue to bring deep growth and efficiency advantage for this segment."

### *Simulations Plus and the University of Southern California Secure NIH Grant to Develop New AI Drug Discovery Offerings*

8 October 2024

Simulations Plus, Inc. ("Simulations Plus"), a leading provider of biosimulation, simulation-enabled performance and intelligence solutions, and medical communications to the biopharma industry, announced the award of a new research grant from the National Institutes of Health (NIH), secured in partnership with the University of Southern California (USC) Alfred E. Mann School of Pharmacy and Pharmaceutical Sciences. The grant will be used to evaluate novel computational methods that account for water-ligand interactions in drug discovery and that integrate with the Artificial Intelligence-driven Drug Design (AIDD) module in ADMET Predictor<sup>®</sup> to offer a first-of-its-kind ligand-based virtual screening (LBVS) solution for pharmaceutical companies.

For this award, Dr. Ian Haworth, Associate Professor and Vice Chair of Pharmacology and Pharmaceutical Sciences at the USC Mann School, and his lab will apply their previously developed algorithm (WATGEN) for the prediction of water positions in the unbound protein and protein-ligand complex. With support from the data scientists and software engineers at Simulations Plus, they will apply machine learning (ML) approaches to predict the pharmacophore features that will be used in ADMET Predictor's proprietary 3D shape and feature matching algorithm.

"Identifying chemicals with shapes and characteristics similar to those that bind drug targets has been invaluable in drug discovery and development. However, the retention or

displacement of water molecules during formation of the protein-ligand interface plays a significant role in determining ligand binding. This has often been overlooked in existing software programs, including LBVS algorithms,” said Dr. Noam Morningstar-Kywi , Scientist II at Simulations Plus and a key investigator for this grant. “Our goal is to develop new approaches that combine ML and validated 3D-based calculations to incorporate these essential water molecules into LBVS, enhancing current methods and enabling researchers to accelerate the discovery of better and more effective drugs.”

Dr. Haworth added, “We will harness the power of structure-based approaches, including the detailed information of protein-ligand and protein-water interactions, and combine them with the speed and accuracy associated with ligand-based similarity scoring methods. This project is a powerful collaboration between industry and academia that drives research from the lab into real-world applications, promising exciting, tangible results that could transform the field.”

The team at Simulations Plus will productize the updated methods into the ADMET Predictor platform and validate it by designing drugs against defined targets using the AIDD module. Selected compounds will be synthesized and tested experimentally to highlight the technology’s applications.

“As a drug discovery scientist, I am particularly excited to apply the NIH funding towards this innovative technology to design and test new compounds against several clinically relevant targets. We have the potential to dramatically reduce the Design-Make-Test-Analyze (DMTA) cycle of drug discovery,” said Dr. Jeremy Jones , Principal Scientist at Simulations Plus and principal investigator for this grant. “We are committed to driving impactful advancements that benefit our stakeholders and the global communities we serve, and we eagerly anticipate future collaborations that continue to create value and foster growth.”

The information presented in this press release is supported by the National Institute of General Medical Sciences of the National Institutes of Health under Award Number R43GM156103. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health.

## *Tata Technologies and BMW Group establish a JV – BMW TechWorks India*

8 October 2024

Tata Technologies, a global product engineering and digital services company and the BMW Group, one of the world’s leading premium automotive manufacturers, are proud to announce the official launch of their Joint Venture (JV) – BMW TechWorks India. With the final signing of the contracts and the approval of the authorities, the JV will commence operations with 100 employees across key technology hubs in Pune, Bengaluru, and Chennai. The venture is set to scale rapidly, targeting a four-digit workforce by the end of 2025, with a strong emphasis on attracting India’s top engineering talent. With BMW Group and Tata Technologies each holding 50 per cent of the shares in this JV, this collaboration underscores a shared vision to drive innovation in automotive technology and business IT.

BMW TechWorks India complements BMW Group’s global strategy by engineering seamless, scalable software solutions for next-gen vehicles and delivering enhanced digital experiences.

Tata Technologies' proven capabilities across the entire product value chain, from conceptualization to detailed engineering and turnkey SDV development, will drive innovation across key software projects for BMW's future mobility solutions and facilitate access to India's impressive talents.

At the heart of this collaboration is the ethos of Engineer in India for the World. India's exceptional engineering and IT talent will play a pivotal role in developing strategic software solutions for SDVs, automated driving, digital infotainment, and automotive digital services. In addition to automotive software, the joint venture will provide digital innovations for the BMW Group's Business IT. Consequently, BMW TechWorks India will expedite the digital transformation of the car manufacturer's global production network as well as strengthen its digital customer journey and sales processes. Another key area of focus will be the development of AI applications and platforms, which will increase the speed and efficiency of all core business processes.

The JV offers young Indian professionals an unparalleled opportunity to work on breakthrough technologies that will shape the future of mobility on a global scale. The JV's commitment to nurturing local talent and innovating next-gen automotive innovations reinforces India's emergence as a global innovation hub in the automotive tech ecosystem.

Commenting on the establishment of the JV with BMW Group, **Warren Harris, CEO and MD of Tata Technologies**, said, "Our joint venture with the BMW Group, BMW TechWorks India, underscores our deep expertise in software-defined vehicles and reflects our commitment to driving innovation in both automotive software and business IT. By leveraging Tata Technologies' strong brand presence in India, this JV will attract top talent and provide a platform to develop forward-thinking solutions that redefine the future of mobility. We are excited to partner with the BMW Group in engineering premium, software-driven vehicles, enhancing digital experiences, and accelerating their digital transformation journey."

**Nachiket Paranjpe, President of Automotive Sales at Tata Technologies**, commented: "The rapid evolution of automotive technology is transforming the way vehicles are developed, with software-defined vehicles at the forefront of this shift. At Tata Technologies, our deep automotive expertise and end-to-end solutions across the value chain—from concept and detailed engineering to manufacturing engineering and turnkey SDV development—position us perfectly to support the BMW Group in shaping the future of mobility. Through this joint venture, we will push the boundaries of automotive technology, creating vehicles that are not only cutting-edge but also deliver exceptional driving experiences to consumers worldwide."

**Christoph Grote, Senior Vice President of Electronics and Software at BMW Group** commented: "BMW TechWorks India is a significant addition to our global vehicle software development initiatives. India's software talent will be a great asset for our software-defined vehicles of the future. With agile processes and state-of-the-art tools, Indian engineers at BMW TechWorks India will co-create innovative automotive digital experiences, such as automated driving and next-gen infotainment systems."

**Alexander Buresch, CIO, and Senior Vice President of BMW Group IT** expressed his enthusiasm on the establishment of the JV: "With BMW TechWorks India, we are steadily advancing our

international IT-Hub strategy and broadening our global Business IT presence. The partnership with Tata Technologies represents a strategically important step and provides excellent conditions for developing innovative software solutions along our value chain. We are excited to welcome Indian tech talents to join us in driving the digital transformation of the BMW Group.”

**Aditya Khera, CEO of BMW TechWorks India** expressed his delight on the establishment of the JV: “With the launch of BMW TechWorks India, we are establishing a world-class software hub that will play a critical role in the BMW Group’s automotive software and business IT strategy. By combining the BMW Group’s and Tata Technologies’ leadership in software-defined vehicles and product engineering excellence, we are poised for innovation and growth, offering India’s top talent the opportunity to shape the future of the BMW Group’s mobility solutions.”

The management team of BMW TechWorks India is comprised of seasoned executives from both partner companies. Representing Tata Technologies are Aditya Khera as CEO and Sweta Girinatham as CFO of this JV. From the BMW Group, Stefan Flader serves as COO of Enterprise IT, and Oliver Scheickl holds the position of COO of Automotive Software in this new JV.

## Product News

### *ABViewer 15.2 released*

9 October 2024

Our team is glad to announce the release of **ABViewer 15.2**. The new version brings improvements of all the main features of the software. Below you will find a detailed list of the changes we have made.

#### PDF to DWG Conversion Improvements

- general improvements in conversion quality;
- added option to convert text to hatches (*Options -> Loading/Saving*) ;
- added option to import lineweights (*Options -> Loading/Saving*).

#### 3D Improvements

- improved import of ACIS, STEP, Parasolid®, SolidWorks®, IFC formats;
- improved export to STEP format;
- added ability to change colors of 3D model parts;
- added ability to convert OBJ files to DWG/DXF;
- added option to explode ACIS objects when saving (*Options -> Loading/Saving*).

#### G-code Generation Improvements

- optimized compensation of the radius generation algorithm for GRBL machines;
- added syntax highlighting in the G-code panel;

- added option to terminate without returning to the starting point (*G-code settings -> Advanced*).

#### Editor Mode Improvements

- improved the Scale, Fillet, and Bevel tools;
- accelerated drawing in the Editor mode.

#### Other Improvements

- improved import of DWG, DXF, DWF, SVG, HPGL formats;
- improved export to DWG, DXF, SVG, PLT formats;
- increased stability of performance in Wine;
- added Grayscale display mode;
- improved interface;
- improved XML API;
- bug fixes.

### *Aspen Technology Launches Microgrid Management System to Help Customers Address Power Reliability and Meet Net-Zero Goals*

8 October 2024

Aspen Technology, Inc., a global leader in industrial software, introduced the AspenTech Microgrid Management System™ (MMS), a solution for customers with heavy electrical power requirements in refining, chemicals, mining and other asset-intensive industries that manage their own on-site conventional and renewable power generation in orchestration with active load management and energy storage. Based on the company's proven AspenTech OSI monarch™ SCADA platform, the solution empowers customers to maximize operational performance and accelerate net-zero goals.

The capabilities delivered by AspenTech MMS are critical to high-energy consumers today as the power grid is at a critical juncture with increasing energy demand, aging and at-capacity grid infrastructure, more severe weather events and increasing cybersecurity threats challenging its reliability and stability. As a result, industrial and commercial energy consumers are increasingly at risk for extended power outages, limitations in power consumption, and inability to meet renewable energy goals, all of which have cascading production and business impact, including delayed restarts, environmental penalties, reduced supply and increased end user costs.

“AspenTech’s new microgrid solution reduces energy vulnerability and business risk by bringing innovation to asset-intensive industries based on decades of electric utility control and automation experience gained at more than 400 global utilities,” said Sally Jacquemin, Vice President of Power and Utilities at AspenTech. “AspenTech Microgrid Management System

brings functionality and flexibility to the power challenge, helping heavy energy users achieve both operational and net-zero objectives.”

A part of AspenTech’s Digital Grid Management suite, AspenTech MMS helps industrial customers address these challenges by providing enhanced power reliability with active, real-time management of power generation resources, including renewable energy and storage, improved situational awareness to maximize return on investment and enhanced cybersecurity to protect all critical loads.

The solution also features a robust Industrial AI approach capable of forecasting power consumption and renewable generation up to 35 days in the future, enabling scheduling and optimization algorithms to maximize the use of generation resources while minimizing emissions and electricity costs.

Additional standard AspenTech MMS features now available include:

- Real-time control, trending, alarming and reporting to ensure system reliability and incident response
- Ability to optimize renewables together with traditional electricity generation and battery storage in balance with active load management
- Forecasting and scheduling capabilities to enable peak shaving and optimized battery charging/discharging
- Robust user interface with responsive data historian and reporting capabilities

### *Bentley Systems Announces Generative AI Game-Changer for Civil Site Design*

9 October 2024

Bentley Systems, Incorporated, the infrastructure engineering software company, announced new generative AI capabilities for civil site design, including a design copilot, site layout optimizations, and automated drawing production that will drive new levels of productivity and accuracy.

Building on its success in applying AI-powered digital twins to asset maintenance—to detect and assess problems before failures occur—Bentley is bringing AI to the design phase of the infrastructure lifecycle to automate repetitive tasks, such as drawing production, so that engineers can focus on higher-value activities.

#### **Putting AI into Action—Introducing OpenSite+**

Bentley’s OpenSite+ is the first engineering application leveraging generative AI for civil site design. It helps engineers swiftly design residential, commercial, and industrial sites with AI tools, significantly boosting productivity and accuracy.

A digital twin-native product, built with Bentley’s iTwin platform, OpenSite+ delivers AI-powered efficiencies and better-quality designs with:

- **Enhanced Design Experience with Copilot:** Users can quickly create, revise, and interact with requirements documentation and 3D site models through natural language interactions—to automatically make real-time design changes with precision and ease.
- **Layout Optimization:** Users can enhance efficiency, reduce errors, and rework site designs in minutes with one-click earthwork optimization. Bentley’s AI-powered design layout agent can evaluate thousands of layout options and suggest alternative designs in real-time, helping users make better design decisions sooner, saving time and money.
- **Automated Drawing Production:** Users can reduce time spent on mundane drawing tasks, accelerating drawing production by up to 10 times, and improve drawing accuracy using AI-powered annotation, labeling, and sheeting that automatically places labels and dimensions according to organizational standards that are optimized for legibility and aesthetics.
- **Smart Design Tools:** Users can create and revise designs using intelligent, editable objects such as building pads, parking layouts, driveways, sidewalks, and ponds to complete projects in a fraction of time compared to traditional CAD software.

With OpenSite+, users also maintain control over their proprietary data during AI training, which creates a solid foundation to responsibly guide the development of AI models.

“By leveraging their past data to optimize future work, generative AI will revolutionize infrastructure design, improving engineers’ productivity and accuracy without sacrificing on quality,” said Mike Campbell, chief product officer at Bentley Systems. “OpenSite+ is just the first example of how Bentley is applying generative AI to benefit infrastructure design and project delivery.”

OpenSite+ early adopter, Joe Viscuso, senior vice president and director of Strategic Growth at Pennoni, commented, “OpenSite+ is a game-changer. By combining design and routine tasks into one powerful platform, it eliminates the need to switch between multiple programs. It streamlines our workflow, automates repetitive tasks, and ensures accuracy as we make changes in real-time. This means faster project completion with superior results, helping Pennoni stay ahead of the curve in both technology and innovation.”

OpenSite+ is the first of a new generation of Bentley Open Applications which run on desktops for optimal responsiveness, while offering the benefits of cloud-based applications, such as automatic updates and cross-operating system availability. The iTwin-native architecture enables seamless collaboration and data-centric workflows. Data is saved directly in a digital twin, which in turn can include data from other sources to provide full context for design work.

### Availability

North American site engineering firms can apply for early access.

*[Bentley Systems: Open Data Ecosystems to Advance Infrastructure Engineering](#)*

9 October 2024

Bentley Systems, Incorporated, the infrastructure engineering software company, unveiled its vision for open data ecosystems to advance infrastructure engineering at its annual Year in Infrastructure conference. During the event, Bentley executives were joined by representatives from global engineering and construction firms and infrastructure owner-operators to discuss how infrastructure professionals can improve project delivery and asset performance.

“The future of infrastructure engineering is open,” said Bentley CEO Nicholas Cumins during his keynote address. “It’s flexible, collaborative, and built on a foundation of data that can be shared securely. At Bentley, we are leading the way—ensuring that the applications, platforms, and solutions we create meet the evolving needs of our industry.”

Cumins explained that infrastructure sectors can no longer afford to work in silos, with data locked away in proprietary systems. The secure flow of data is necessary to solve global infrastructure challenges, including the expansion of energy grids, modernization of transportation systems, and retrofitting of existing assets to meet sustainable development goals.

### **Open data ecosystems**

Because infrastructure projects are complex, involving multiple organizations, teams, disciplines, and stakeholders, infrastructure organizations need an open ecosystem for their data that enables integration and interoperability across different tools and platforms.

In addition to its Bentley Open Applications for infrastructure modeling and simulation, which allow users to edit models from other vendors, Bentley has developed over the last decade a robust, open-source schema specifically for infrastructure. Bentley’s Base Infrastructure Schema structures and organizes data so that it can be queried, analyzed, and reused across multiple platforms, enabling infrastructure professionals and organizations to fully leverage the value of their data.

“At Bentley, we understand that openness is not just a feature—it’s a necessity,” Cumins said. “This is about moving the entire sector forward together. We’ve spent years refining this framework so that organizations don’t have to start from scratch, and we welcome others to benefit from its maturity and richness.”

### **Enhancing geospatial capabilities**

The value of open data ecosystems is demonstrated through Bentley’s partnership with Google, announced at the Year in Infrastructure. The partnership integrates Google’s breadth and depth of geospatial data with Bentley’s infrastructure engineering software.

“When this data is combined with Bentley’s infrastructure engineering expertise, the result is an ecosystem where data can flow seamlessly, providing users with access to the most comprehensive and actionable geospatial insights available,” Cumins said.

The partnership builds on Bentley’s recent acquisition of Cesium, the foundational open platform for creating powerful 3D geospatial applications. Cesium is the creator of the 3D Tiles open standard also used by Google. By integrating 3D geospatial data with Cesium and

Bentley's iTwin platform, stakeholders can visualize their assets, both existing and planned, in full, real-world context.

This technology has been put to use on HS2, the high-speed railway under construction in the UK. To support communities and stakeholders, BBV (the Balfour Beatty Vinci Joint Venture) developed an in-house application utilizing Bentley's iTwin Platform for infrastructure digital twins, which allows simultaneous streaming of multiple engineering models. Users can quickly navigate to any asset, generate imagery, and view flythrough videos. With Cesium, Google 3D Tiles are used to provide geospatial context to aid navigation and enhance the digital twin.

### **AI is a paradigm shift**

Open data ecosystems make data accessible, including for AI, which Cumins called a "paradigm shift" for infrastructure sectors, which create massive amounts of data during design, construction, and operations. By applying AI, infrastructure data can be analyzed for deeper insights.

For example, Bentley's digital twin solutions apply AI to improve infrastructure operations, allowing engineers to monitor, manage, and optimize assets. AI agents analyze digital twins to identify maintenance issues and recommend preventive action, avoiding costly breakdowns or safety hazards.

Cumins explained that AI's potential extends even further, into the design phase of the infrastructure lifecycle. Infrastructure organizations can leverage AI and reuse their data to automate repetitive tasks, such as documentation and annotation, enabling engineers to focus on higher-value activities. At the Year in Infrastructure conference, Bentley announced OpenSite+, a new engineering application for civil site design that features generative AI capabilities, including a design copilot that will drive new levels of productivity and accuracy.

"At the end of the day, AI's true power will be measured by its ability to improve outcomes—more sustainable designs, faster and safer builds, and more reliable infrastructure systems. As we look to the future, the possibilities seem endless," Cumins said.

### **Bentley Asset Analytics**

Open data and AI can come together to enhance asset performance. Because more than 95% of the infrastructure that will be in use by 2030 already exists today, owner-operators need to ensure existing infrastructure is resilient, efficient, and capable of meeting current and future demands.

To address this challenge, Cumins announced Bentley Asset Analytics, a new product portfolio that combines existing products and solutions with new innovations and recent acquisitions. Bentley Asset Analytics leverages AI to generate insights into the condition of existing infrastructure assets, while eliminating costly, manual activities.

The portfolio includes Blynscy, which automates roadway maintenance and asset inventory activities through crowd-sourced imagery and AI, and OpenTower iQ, which automates every stage of the telecommunications tower lifecycle through drone-capture imagery, other data sources, and AI. Bentley plans to cover a wide range of asset classes and incorporate diverse

data capture techniques, such as IoT sensors and drones, to create solutions for owner-operators.

“We extend an invitation to engineering firms to partner with us on this. We want to empower engineering firms to extend their expertise into asset operations, and we know that delivering on the promise of AI-driven asset analytics requires close collaboration,” Cumins said.

### **Looking Ahead**

The Year in Infrastructure conference followed Bentley’s recent celebration of its 40th anniversary in September. Cumins used the occasion to reflect on the opportunities for infrastructure engineering over the next decades.

“The key to moving forward, to harnessing the paradigm shifts of the next 40 years, is to unlock the value of data. So, don’t get locked in. Make sure you retain control,” Cumins said. “Let’s use AI—our generation’s paradigm shift—to improve outcomes for the built and natural environment.”

“Together, we’re laying the groundwork for a future where open data ecosystems and AI work seamlessly to create more sustainable and resilient infrastructure—for better quality of life—for generations to come.”

## ***BETA CAE Systems announces the release of SPDRM v1.11.3***

8 October 2024

### **About this Release**

BETA CAE Systems announces the release of SPDRM v1.11.3.

This version delivers a number of enhancements and fixes to the users of the most advanced Simulation Process Data and Resources Management software.

The most important enhancements and fixes are listed below.

### **Enhancements in SPDRM v1.11.3**

#### **Data Management**

It is now possible to associate certain values of an attribute with particular ACLs, so that when the attribute value is changed, the visibility of the DM item for different user roles is adapted accordingly.

#### **Data Model**

It is now possible to set privileges per role for all data types.

### **Known issues resolved in SPDRM v1.11.3**

#### **Data Management**

A new server configuration key has been introduced to manage the maximum number of file overwrites stored in the database. If this key is not configured, a default limit of 100 will be applied.

## Data Views

KOMVOS would not display any data in its hierarchical views. If grouping based on a secondary attribute was requested.

## Data Search

Library Items would not be returned when searching with ANSA Creation/Modification Date attribute.

## Data Lifecycle

An alert notification would be unnecessarily raised when switching the status of an unused item.

## Process Management

Multiple scheduled jobs would fail to be executed concurrently in case the server configuration key "no\_gui\_mode" is set to "local" and the no-gui client (PEX) was not already up and running.

## Process Library

Users without modify privileges on a workflow were still able to edit it through Process Library.

## MIMEtypes

File extensions field would be cleared when the registered application was changed.

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

## Documentation Updates

### Updated Documents

Updated Installation Guide, Administrator's Guide, Scripting API Guide and REST API documentation.

## Supported Platforms and System Requirements

The server software of SPDRM is running under 64bit flavors of Linux.

The client software of SPDRM is running under 64bit flavors of Linux and MS Windows.

The software requires a different license key to the rest of the products of BETA CAE Systems. This license key should be incorporated into the same license file, if such is already installed, and requires beta\_lm, the proprietary license manager of BETA CAE Systems.

For details, refer to the System Requirements document.

## ***Buildots Announces Integration with Autodesk BIM 360 to Automate Field Management Issues Creation***

8 October 2024

**Buildots**, an award-winning leader in AI-based automated progress tracking, announced a new integration with **Autodesk® BIM 360®**, a project management solution and part of **Autodesk Construction Cloud®**, bringing valuable advancements to the construction sector. This new integration is further enhancing long-standing integrations between Buildots and Autodesk.

Buildots, known for harnessing the power of artificial intelligence and computer vision, is enhancing efficiencies in the construction industry by enabling performance-driven construction management. The technology captures comprehensive imaging of ongoing projects and employs AI models to translate this data into precise, actionable insights. It monitors construction progress against the plans and schedule, generating a gap analysis and predictive analytics that can alert project managers that corrective action is needed. This process facilitates continuous improvement in performance and adapts to changing realities on the ground, reducing construction delays.

The new integration between Buildots' AI technology and BIM 360 allows project teams to log deviations detected with visual information in Buildots, such as incorrect installations, by automatically creating Issues in BIM 360. Construction managers can minimize delays and avoid cost overruns by continuing to manage those Issues within BIM 360.

"The integration between Buildots and BIM 360 is a win for the construction industry," said Aviv Leibovici, co-founder and CPO of Buildots. "It promises to bring new levels of efficiency and precision to construction. Together, we aim to enhance how building projects are planned and executed, making it easier for professionals to contribute to better construction outcomes."

### *Centric Software PLM for Cosmetics & Personal Care Growing Beautifully*

7 October 2024

Centric Software® is pleased to announce new market-driven enhancements to Centric PLM™ for cosmetics & personal care. Centric Software provides the most innovative enterprise solutions to plan, formulate, develop, procure, manufacture and sell consumer goods products across the cosmetics & personal care, food & beverage, fashion and multi-category retail industries to achieve strategic and operational digital transformation goals.

Since entering the cosmetics & personal care space during the pandemic, Centric Software has incorporated hundreds of market-driven enhancements, innovations and best practices into Centric PLM, Centric Visual Boards™ and Centric Market Intelligence™. Centric's seamless product design and development solutions provide compelling ROI to the cosmetics and multi-category retail industry by reducing time to market, optimizing costs and improving compliance, traceability and sustainability.

Receiving a strong market response; Centric has almost doubled its customer roster in the cosmetics & personal care space in just the past year. In tandem, Centric also doubled its team of industry experts. These specialists incorporate product development best practices and bolster Centric Software's extensive experience in enterprise consumer goods technology development and implementation with a wealth of industry knowledge.

Recent cosmetics & personal care innovations include Centric AI Formula Match, a powerful tool already being adopted by leading beauty brands. Users specify product parameters and leverage Centric PLM's AI-powered Formula Match to find appropriate ingredients and existing formulas that align with the product brief, providing product development scientists with suggestions for a formulation starting point.

Additionally, Centric's regulatory management innovation strengthens compliance workflows. Via Centric's 'compliance cockpit', users indicate which product characteristics to prioritize, for example, countries where the product will be sold. This then sets the standard for each country's allowable ingredients and ingredient levels. Results can be filtered by desired parameters like 'vegan' or 'cruelty-free' formulations. Plus, data can be pulled from anywhere in Centric PLM or fed in via the global regulatory organization, FoodChain ID, connecting users to 220 global food and chemical regulatory libraries and databases. Heike Linnemann, Brand General Manager at Kiko says of the repository, "One of the things we've seen improve is that we now have just one repository. The information is there and it's 100% accurate and visible to everyone at the same time. Centric helps us with this because we are guaranteed to have up-to-date and precise costs in real-time."

"PLM's single repository for data and its power to increase efficiency, reduce the risk of error, and ensure we are meeting safety and environmental standards will ultimately lead to enhanced product quality and reduced time to market," says Giulio Pistolato, CIO at Pettenon Cosmetics.

AI-fuelled Centric Market Intelligence efficiently scans competitor websites extracting product attributes and pricing to create benchmarks, creating a comprehensive market view. These reports give insights into trends, specific best-sellers and the timing of promotions.

Centric Visual Boards empower assortment planners, buyers and merchandisers to visually collaborate in a live, actionable digital space instead of on physical paper boards, eliminating the need for in-person presence while still working in real-time. Visual Boards are easy to use with a beautiful user interface developed in partnership with leading luxury brands, streamlining the creative process and enabling consistency throughout product development.

"We are excited to share our solutions with the cosmetics & personal care industry. Functionality like Formula Match and partnerships with companies like FoodChain ID are typical of advancements and enhancements we regularly make to our product offerings. We are customer focused. Bringing in the right people to our teams gives us the means to continue to serve the companies that have placed their trust in Centric Software," says Ron Watson, VP of Products & Chief Security Officer Centric Software.

### *Centric Software Retail Planning Empowers Brands & Retailers with Enhanced Analytics and AI-Assisted Decision-Making*

4 October 2024

Centric Software® is pleased to announce updates to Centric Planning™ that deliver enhanced analytics and demand forecasting integration to plan and execute more on-target assortments. Centric Software provides the most innovative enterprise best-of-breed solutions to plan, design, develop, source, buy, make, price, allocate, sell and replenish products such as fashion, outdoor, luxury, multi-category retail, grocery, food & beverage, cosmetics & personal care and consumer electronics to achieve strategic and operational digital transformation goals.

Regularly featured by leading industry analysts, including Gartner, Forrester and IDC, Centric Planning targets the unique challenges faced by the retail sector by providing a holistic end-to-end retail planning solution that integrates seamlessly with Centric Software's wider end-to-end product lifecycle (PLM) platform, servicing the pre- to in- to end-season product lifecycle, from initial concept to product replenishment and clearance pricing.

Centric Planning's industry-first integration with Centric Marketing Intelligence™ and Centric PLM™ combines advanced analytics and real-time market insights to enhance retail forecasting, consumer-centric decision-making and replenishment capabilities, all in one platform. Connection with Centric Pricing and Inventory™ provides AI-powered inventory optimization and markdown management. And the seamless link to Centric Visual Boards™ enables robust assortment development, product portfolio optimization and faster decision making.

The latest version of Centric Planning includes significant updates to its user interface and AI/ML capabilities, which enable brands and retailers to visualize analytics and data more effectively, better and more accurately forecast demand throughout the product sales cycle, easily embed retail industry best practices and improve decision-making.

Centric Planning leverages AI-driven forecasting, utilizing advanced algorithms that continuously learn and adapt to provide highly accurate demand predictions. This helps retailers and brands make smarter decisions on assortments, stock levels and product performance across different channels and locations. Additional Machine Learning methods have been integrated to support products with strong seasonal variations, even during the early stages of the season. AI-based forecasting also enhances the replenishment process. New AI basket analysis enables customers to understand sales correlations between products and adjust their assortment to better fulfil consumer needs.

These latest updates have expanded AI-driven use cases, explains Riccardo Proni, VP, Planning Research and Design at Centric Software.

“Our commitment to innovation is evident in our ongoing and dedicated exploration of how AI-driven forecasting can be used to quantify inventory needs for new products and pre-season planning, leveraging the limited amount of data available during this phase of the process. We are actively developing and refining advanced AI algorithms to analyze available data, such as similar product categories and market trends, to generate accurate demand forecasts. This evolving approach aims to provide retailers with better tools to make informed decisions before the season begins,” explains Proni.

Integration with Centric Market Intelligence enhances decision-making using Centric Planning, continues Proni, “We have reached a significant milestone by seamlessly integrating Centric

Marketing Intelligence with our assortment planning capabilities. This enables us to incorporate crucial market trends and competitive data, such as pricing and discount information, into assortment planning. Our ultimate aim is to refine forecasting models even further by incorporating a broader range of competitive and market data, thereby empowering retailers to make more informed decisions on inventory management and marketing strategies based on evolving market conditions and competitor actions.”

“We are delighted to announce several important updates to Centric Planning that will deliver increased efficiency, better decision-making abilities and improved system performance for our customers,” says Chris Groves, CEO of Centric Software. “Our team is constantly innovating together with our customers to ensure that our solutions address the retail challenges of today and tomorrow.”

### *CoreLogic Announces Araya, A Platform for Advanced Property, Portfolio and Market Insights*

8 October 2024

CoreLogic®, a leader in global property information, analytics and data-enabled solutions, announced the launch of Araya™, a property and location intelligence platform built for the age of AI. Araya provides professionals across the property industry one-stop access to best-in-class, comprehensive property information and analytics that are critical to everyday decision making. Built for more than 5 million property industry professionals including loan officers, appraisers, mortgage originators, servicers, insurance underwriters, developers, agents, brokers, real estate lawyers and housing regulators, Araya delivers CoreLogic’s high-quality data with AI-enabled analytics to fuel comprehensive property, market and portfolio insights through an easy-to-access platform.

Built upon an extensive database covering 99.9% of U.S. properties, Araya provides deep insights on individual properties, a broad understanding of the market and an analysis of the overall risk and opportunity in client portfolios. Solutions include Property Intelligence, Market Intelligence, Precision Marketing, Climate Risk Analytics and more, enabling users to quickly navigate dynamic housing conditions and make faster, more confident decisions. Araya facilitates day-to-day decision-making as well as long-term, strategic planning by integrating historical data with predictive models, providing comprehensive market trends and property specifics at your fingertips.

*“CoreLogic’s investment in Araya reflects its vision to make an impact, delivering the critical property, portfolio and market insights that empower professionals to make confident, informed decisions in the \$40+ trillion U.S. housing industry. With decades of experience serving property professionals, we understand the need for trusted, top-tier data, AI technology and industry leading solutions that keep pace with a dynamic real estate landscape,”* said Devi Mateti, president, enterprise digital solutions, CoreLogic.

### *E3.series 2025 Improves Design Efficiency with More Than Fifty Enhancements*

8 October 2024

Zuken announces the release of E3.series 2025, introducing enhancements to support the designs of complex wiring systems. From sheet area assignment automation to simplifying part placement, this release has more than 50 improvements to the functionality and COM interface, making designing more accessible, faster, and more flexible. The release adds new tools to the E3.series suite and includes several enhancements to existing tools. The E3.series 2025 release has updates to simplify the process for control panel and detailed cable designs.

“With the E3.series 2025 release, we’ve focused on giving our users more control and automation than ever before. These enhancements aren’t just about keeping up with the pace of modern design—they’re about staying ahead of it. From dynamic documentation tools to more precise wire routing and automated processes, we’ve delivered a solution that enables designers to work smarter, faster, and more accurately. This release is all about making complex designs more manageable and efficient, so our users can focus on innovation.”, states Robert Baur, Head of E3.series Product Development.

### **Effortless Placement of Mounted Devices**

Multiple enhancements simplify control panel layouts, several of which relate to device mounting slots. In the 2025 release, the first update to improve mounting devices is the ability to define names for a model’s slots. These names are helpful when working with a model with several slots defined, as it can be challenging to locate the desired slot.

Users can view these slot names in the project folder, like the Device tree, and use them with the subsequent enhancement for easy placement. Designers can easily drag and drop the models of components from the library or existing devices directly to the slot of a model in the Device tree. The model is then physically mounted on that slot in the panel layout. This new capability results in greater precision and reduced design errors.

Also new in this release are the expanded alignment capabilities and center alignment options for manual component placement in a slot area. For example, if a user selects a mounting plate and executes an align command, all components attached to this mounting plate are aligned. The enhancement makes aligning and evenly distributing mounted components easier, facilitating more effective placement.

### **Simplifying Design Visibility**

Many new enhancements in E3.series 2025 help the designer see important data more efficiently. Users can now see any additional parts designated on a device in the Device tree. Moreover, they can see information applied to these parts in the Info column, like the quantity or description. This visibility provides an overview of which additional parts are stored on what equipment in the project.

Some additional enhancements to heighten the user’s visibility of the design details are the options to streamline the from-to information in the connection table and reports. Starting with the update to laying new cores of a cable, E3.series connects the same device on the same side for the “from-to” information of the cores. Previously, this direction was dependent upon the direction in which the connection line was drawn. The release also includes a new option to run

a command that unifies the wire directions of a cable to the same side. Unifying the core ends in the “from-to” connection lists increases traceability.

### **Maximizing User Productivity**

With each release, Zuken strives to increase user efficiency to help boost design productivity. Adding new hotkeys, toolbar commands, or features that reduce the steps to accomplish a task all aid in improving efficiency. The 2025 release includes the ability to swap out complete connectors plugged into a mating connector. Both connectors are changed whether users switch to a connector with fewer, equal, or more pins than the current pair. In previous versions, users might have needed to unplug or delete the connectors before changing them. This extra step led to longer design time, potential loss of information, and design errors. The new streamlined approach to changing mated pairs eliminates these potential risks.

In many cases, companies use different visibility options for printing to compare what they see while designing. They may want to print drawings that are less detailed for easy viewing or to share with an external audience and need to remove confidential information. With the E3.series 2025 release, a new setting is available to define the level configuration file (.vis) for printing and exporting PDFs and SVGs. This new setting simplifies the process by eliminating the need to switch the level configuration, making printing quicker and easier.

### **New Automation Capabilities**

For our customers designing complex control panels and switchboards, using multiple sheets to divide the product is a typical practice. If the sheet area is incorrectly defined, users will encounter collision issues while placing the components. In E3.series 2025, the area of a new panel sheet is assigned automatically to the next available free area. This automation replaces the manual effort of defining this area to the new panel sheet and prevents overlapping issues downstream.

In the 2023 release of E3.series, we introduced the ability to define drill holes based on circle graphics. The 2025 release expands this capability to include other contour options, restricted areas, and cutouts based on existing polygon graphics. The graphics are often imported and available from a drawing file or when creating a model from the STEP import. Using the imported graphics to automate the addition of contours further improves the process of building accurate component models.

E3.series 2025 is available now in Europe and North America.

## ***Golden Software Improves Grapher Scientific Graphing Package for Greater Ease of Use, Faster Learning***

10 October 2024

Golden Software, a leading developer of mapping, plotting, and visualization software, has improved numerous features in its Grapher scientific graphing package to provide greater ease of use to both long-time and first-time users. In addition, Grapher file menus and command ribbons have been simplified to enhance overall discoverability and user friendliness.

“In the new release of Grapher, we continued to build on our recent usability survey with the goal of streamlining the interface and functionality so that users become more productive,” said Santiago Vivas, Grapher Product Manager. “New users will also find Grapher is faster and easier to learn.”

Grapher enables users to make better decisions by visualizing and communicating complex data sets in ways that simply can't be accomplished with spreadsheets. Used extensively by scientists and engineers in environmental services and consulting, climate research, exploration, and academic pursuits, Grapher offers deeper insights into diverse data sets, including chemical, physical, geologic, and geospatial data, through 80 different 2D and 3D plotting types. Grapher is often used to plot data captured by a variety of chemical and physical sensors in the field.

The newest release of Grapher, which is downloadable now to all users with active maintenance or subscription agreements, includes these enhancements:

**Move and Copy Pages** – No more overloaded Project files! Managing and organizing Projects just got a lot easier. Users can now quickly move pages into, or out of, Projects to create one file with many pages or a series of Projects each with one page.

**Improved Gradient Properties** – When a user chooses to display a Gradient instead of a Pattern, the selected properties of the gradient, and not the pattern, are retained. Inactive patterns are not displayed once the new gradient is chosen.

**Custom Histogram Binning** – An improvement on the existing Automatic Binning feature, users can now manually tweak one or more of the value bins generated in Grapher with just a few clicks.

**Image Cropping** – Users have long been able to import images into Grapher, but they previously had to use a third-party package to crop them. Now users can crop the image within Grapher to create the best fit and appearance.

**Add Plot Icon** – It was not clear that users could add plots to graphs or what types of plots could be added. However, users can add plots simply and easily by clicking on a green Plus icon onscreen.

**Save All** – For users who have been working on multiple open pages and Project files, Grapher now allows all changes in all files to be saved with just one click on the Save All command.

**Text Editor** – Editing the text in a graph is easier than ever thanks to an obvious new ‘Text Editor’ button on the command ribbon.

**Eliminated ‘Import’ Buttons** – Grapher previously had too many buttons with the word Import on them. These have all been replaced with Open File commands. All the same file types are still supported in Grapher but with a simpler way to open them.

**Enhanced Quick Access Menu** – Important option and property commands such as Save, Open, and Export have been added to the Quick Access Menu in the form of a gear icon so users can easily find often repeated functions without searching in sub menus.

Overall, the Grapher file menus and command ribbons are now similar to, and consistent with, interface elements in Golden Software's popular Surfer gridding, mapping and 3D visualization package. For customers who use both packages, Golden is making the transition between them as seamless as possible.

### **Grapher Beta Available**

As is the tradition, Golden Software has released a Beta version of Grapher simultaneously with the new version to give customers a chance to try out new features and provide feedback while they are still in development. Users may find the Beta version by clicking **File | Online** from within Grapher.

Key Beta functions in this version include:

- Improved Object Manager – Names in the Object Manager are now linked to the Title Field on a graph so that changes to one automatically updates the other. Graphs can be quickly and easily renamed with the edit saved in Object Manager.
- Coincident Major and Minor Axes Ticks – Major and minor tick names, such as "Year" and "Month" can now be represented simultaneously on the same graph axis.

Several other upgrades are in the works for Grapher and will be unveiled with a new release next year.

### ***Kahua Integrates with Sage Intacct to Streamline Subcontractor Business Processes***

9 October 2024

Kahua, a leading provider of capital program and construction project management information systems (PMIS), announces a new integration with cloud-based accounting software Sage Intacct to provide an improved business experience for subcontractor customers.

The Kahua integration on the Sage Intacct Marketplace delivers the ability to manage construction projects, contracts, change orders and other operational aspects, leveraging Sage Intacct to facilitate purchasing, invoicing and accounting as it relates to the construction projects.

The Kahua/Sage Intacct integration allows subcontractors to:

- Reduce time and errors in redundant data entry of cost information
- Permit enhanced reporting across all projects
- Enable advanced business insights with Kahua Analytics
- Provide real-time actuals to the field and enhance visibility to the back office

Kahua's construction program and project management software enable innovation with collaborative purpose-built solutions for subcontractors.

"We're thrilled to collaborate with Kahua to deliver a powerful solution for subcontractors," said Dennis Stejskal, Sage Intacct Head of Strategy for Construction & Real Estate. "By combining Sage Intacct's robust financial management capabilities with Kahua's advanced

project management, this integration streamlines operations and improves visibility into the financial performance of construction projects. It's a game-changer for subcontractors looking to drive efficiency and enhance decision-making."

Kahua President Brian Moore said he was likewise excited about the partnership.

"This integration enhances our CMMC certified and robust subcontractor offering," Moore said. "The integrated offering provides real-time collaboration between the office and the field to help mitigate risk and inform everyone on the financial state of each project."

## *LTIMindtree Launches Smart Spaces Offering with ESG suite*

8 October 2024

LTIMindtree, a global technology consulting and digital solutions company, announced the launch of their new comprehensive ESG digital transformation platform- Smart Spaces 2.0.

With Smart Spaces 2.0, existing and new buildings can be fitted with the latest IoT devices, and facilities teams can instantly access key data on the platform pertaining to operational and environmental metrics such as energy, emission, water and waste. It can help achieve significant savings and operational excellence for investors, landlords, building managers and tenants across residential and office buildings.

In commercial and industrial settings, Smart Spaces 2.0 can help with end-to-end ESG reporting across key factors, while delivering predictive maintenance and repair inputs. Clients can also integrate Smart Spaces 2.0 with their existing building and plant management systems to take instant action on alerts provided by the system.

Smart Spaces 2.0, a comprehensive suite available through iNXT- LTIMindtree's Digital Transformation Platform, helps enable intelligent and connected building spaces, ensuring optimal efficiency and reliability, with a holistic suite of solutions to lead and accelerate enterprise digital transformation from an ESG perspective. Using the platform, organisations can easily adhere to national and global standards for sustainability frameworks such as GRI, TCFD, BRSR, CSRD and Greenmark, ISO frameworks.

Monish Mishra, Chief Business Officer, iNXT, LTIMindtree says "LTIMindtree's iNXT business is excited to announce the launch of the Smart Spaces Solution. This innovative solution, along with its accelerators, has a comprehensive suite designed to drive and expedite enterprises towards smart building transformations and ESG excellence. Smart Spaces is both modular and adaptable, and can be seamlessly integrated with the organisation's ESG ecosystem."

Paneesh Rao, Chief Sustainability Officer, LTIMindtree said, "Smart Spaces is an integrated platform that provides a solution in managing the exhaustive data of E, S & G pillar. It not only helps in connecting the campuses at enterprise levels but also ensures value chain and supply chain sustainability. With our ambitious ESG targets like becoming Net Zero by 2040, 85% + increase in renewable energy share by 2030, becoming zero waste to landfill by 2030, inclusive workforce with 40% women, 10% diverse suppliers, etc. we will benefit by utilising Smart

Spaces. It will be an important tool and solution to the ESG community to bring comprehensive benefits and visibility to an organisation's ESG goals and journey."

The Smart Spaces 2.0 solution can provide global insights with trend analysis on sustainability performance across each pillar- Environment, Social and Governance and an ESG Score. With advanced analytics systems for gap prediction, it recommends and promotes optimization with energy savings, water conservation, waste recycling, emission tracking and reduction. It also brings together complete transparency in supply chain, vendor management, and CSR initiatives management. Smart Spaces also aims to improve productivity in workspaces with better Indoor Environmental Quality and occupants' dynamic care, safety, and security.

Alongside various global client implementations, LTIMindtree has implemented the Smart Spaces 2.0 solution at its own offices across Bengaluru, Mumbai and Chennai, with other global offices to follow.

### *Nemetschek Group Announces Vision for Artificial Intelligence Layer to Amplify Creativity and Enhance User Experience Across the Building Lifecycle*

7 October 2024

The Nemetschek Group, a leading global provider of software solutions for the AEC/O and media industries, announced the launch of an artificial intelligence layer to be embedded in all of the Group's major solutions from 2025. The AI layer is set to revolutionize creativity and productivity in architecture, engineering, and construction as well as management and operation. It will offer tools to simplify complex tasks and empower professionals to focus on innovative design and project execution.

Yves Padrines, CEO of the Nemetschek Group, comments: "Our goal is to empower architects, engineers, contractors, and building managers by providing them with tools that expand their expertise. We believe that human intelligence, paired with advanced artificial intelligence, can push boundaries. By integrating the new artificial intelligence layer into our key solutions, we aim to unlock new possibilities and revolutionize workflow efficiency."

Nemetschek Group's AI layer will leverage secure cloud technology to process user requests efficiently, whether they are making simple inquiries or conducting complex tasks. By managing users' input quickly and delivering precise responses, the AI layer will support a large range of use cases, from design ideation to task automation. The layer is modular and can understand natural language, enabling fast and accurate responses while transforming and optimizing the way users work with Nemetschek products.

The AI layer is designed to integrate seamlessly and enhance a wide range of functions: Intelligent automation plays a central role by offering automated task execution, adaptive project management, and natural language interaction, simplifying even the most complex workflows. Insight-driven decision-making is achieved through AI-powered data insights, which guide design processes and optimize decision-making. Additionally, design augmentation allows AI to assist in design iterations, pattern creation, and scenario simulations,

enabling more innovative and creative project outcomes. Those features ultimately enable better planning and execution for a more sustainable building process and a better built world.

A key focus is on the user experience, making the interactions and engagements with the user more intuitive and efficient. The modular AI layer will also include collaboration tools that drive more effective communication between parties in the construction lifecycle; they will continue to improve based on user feedback.

Julian Geiger, VP Head of AI Product & Transformation, Nemetschek Group, says: “We are excited to introduce an AI-powered layer that will be integrated across all our brands and products, bringing new levels of intelligence and automation to our entire ecosystem. Our intention is simple: We aim to make creativity more creative and productivity more productive. By embedding AI into our offerings, we are enabling more efficient workflows, more precise decision-making, and more personalized experiences that empower professionals to do their best work.”

#### Nemetschek’s Vision of Ethical AI

Nemetschek’s vision for ethical and trustworthy AI focuses on transparency, data privacy, and reliability. AI decisions should be understandable to users, with clear explanations provided. Stringent data security measures are in place, including user consent and anonymization where possible. Before deployment, AI models will undergo rigorous testing and validation, with human oversight in critical areas. Clear accountability needs to be established within the organization. Additionally, AI is used to promote sustainability and the well-being of our society as well as to help its users adjust to new realities, and therefore adapt to evolving job roles and expectations.

“As a leading software provider in the AEC/O industry, we are dedicated to ensuring that our AI technologies are developed ethically, prioritizing transparency, fairness, and accountability. We are committed to creating AI systems that are explainable and free from bias, promoting inclusivity for all users. Privacy and data security are at the core of our AI initiatives, and we implement strong safeguards to protect sensitive information”, adds Charlie Sheridan, Chief AI and Data Officer, Nemetschek Group.

### *OpenBOM Launches Major Update for Onshape Integration: New Drawing Features, Simplified Settings, and Improved Speed*

9 October 2024

OpenBOM, a leading provider of cloud-based PDM and PLM software, helps manufacturing companies manage their digital product information, organizing bills of materials and parts, inventories, and managing the digital thread of information across the value chain connecting OEMs, contractors, and suppliers, today announced a significant update tailored specifically for PTC Onshape users.

OpenBOM is thrilled to announce a major update to our integration with Onshape, designed to elevate performance, improve user experience, and align with Onshape’s latest features. This update brings faster BOM generation, a more intuitive interface, and enhanced functionality,

ensuring a seamless, efficient workflow for users. As Onshape continues to innovate, OpenBOM is committed to keeping pace and delivering the best possible experience for our users.

The new update focuses on three key areas: performance, interface design, and expanded support for Onshape's evolving capabilities. With improved speed for generating and updating BOMs, simplified settings, and better management of assemblies and derivative files, OpenBOM now offers an even more integrated experience. The introduction of a modern drawing flyout interface further enhances usability, providing quicker access to critical design data.

"Since the start of our partnership, OpenBOM has been dedicated to integrating deeply with Onshape, enabling users to manage bills of materials (BOMs), optimize quotations, and streamline inventory management," said Oleg Shilovitsky, CEO and co-founder of OpenBOM. "We've taken user feedback seriously, continually refining our platform to meet the needs of engineers and manufacturers. This latest release is the result of multiple years of collaboration and fine-tuning, ensuring that OpenBOM remains a trusted and powerful tool for Onshape customers".

Customers love what we do and give us a great deal of support. "The new OpenBOM for Onshape integration is impressive. The GUI is clean and intuitive, making it easy to navigate. I especially love how the new part number generation works, and the addition of the 'remaining' operation bar is a brilliant idea" – said David Rubli, Head of Mechatronics R&D at Xtend AI (former Xtend Robotics).

This release reaffirms our commitment to providing flexible, CAD-agnostic support, ensuring users can enjoy the full benefits of OpenBOM in any CAD environment. We look forward to hearing your feedback and continuing to evolve alongside Onshape's innovations.

## *Oracle Introduces New AI-Driven Workflows to Help Organizations Automate the Complete Customer Service Lifecycle*

9 October 2024

Oracle announced new AI-powered capabilities within Oracle Fusion Cloud Service and Oracle Fusion Cloud Field Service that help service teams increase productivity, better understand customer issues, and serve their customers more effectively. The latest updates improve customer satisfaction by automatically identifying customer issues, recommending actions, streamlining resolution, and improving first-time fix rates.

"Service teams are expected to deliver consistent, on-demand, around-the-clock customer care and in this environment, every second of time saved helps improve the experience and build loyalty," said Jeff Wartgow, vice president, Oracle Service. "With these new capabilities, Oracle is adding AI-powered insights, authoring, and recommendations across the service lifecycle to help organizations more efficiently deliver service that elevates the entire customer experience."

Oracle Service and Oracle Field Service are a part of Oracle Fusion Cloud Customer Experience (CX), a connected suite of applications that helps organizations create, manage, serve, and

nurture lasting customer relationships. Built with embedded AI and leveraging contextual service data, Oracle helps organizations automate the full customer service lifecycle. New capabilities include:

- **Automated Service Agent:** Helps service teams quickly understand customer service requests and reduce time-to-resolution. For example, the new AI-powered automated service agent can review service-related tasks based on relevant context and customer history to then develop and deliver an actionable plan with recommended next steps for service representatives.
- **Call and chat summarization:** Helps service representatives save time and improve accuracy when assisting customers. The new summarization capability uses generative AI to transcribe the customer conversation and produce an accurate summary of the call that can be shared with other service team members or supervisors as needed.
- **Field service knowledge search augmentation:** Helps field service technicians fix customer issues faster and more accurately to reduce the need for repeat visits. The new Oracle Field Service knowledge search augmentation feature uses large language models (LLMs) and semantic search capabilities that understand natural language queries and use generative AI to provide guidance using articles and other resources. “To improve service efficiency and allow service teams to focus on creating more meaningful customer interactions, it’s important for organizations to lean into AI,” said Aly Pinder, research vice president, IDC. “Oracle’s new AI-powered service capabilities will help organizations increase responsiveness, quality, and the overall customer experience.”

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