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## Acquisitions

### ***DELTEK COMPLETES ITS ACQUISITION OF TIP TECHNOLOGIES***

26 September 2022

Deltek, the leading global provider of software and solutions for project-based businesses, announced that it has completed its acquisition of TIP Technologies – the leading provider of quality, compliance and manufacturing execution solutions for the highly regulated aerospace and defense (A&D) and government contracting industry. The agreement to acquire TIP Technologies was announced on Thursday, July 14.

With this acquisition, Deltek will add quality management system (QMS) and manufacturing execution system (MES) capabilities to its portfolio of ERP and manufacturing solutions for government contractors, aerospace & defense (A&D) and Engineer to Order (E2O) firms. For decades, Deltek has offered award-winning solutions to government contractors of all sizes. With the combination of Deltek + TIP Technologies, the company will provide the most comprehensive solutions for government contractors and in particular, aerospace & defense and engineer to order firms.

“Joining forces with Deltek is a strategic milestone for TIP Technologies and we look forward to seeing how our businesses and solutions can progress together,” said Mike Miller, founder and CEO of TIP Technologies. “We are thrilled to now be a part of Deltek and I want to thank all our TIP Technologies employees and all the parties involved that helped us complete this acquisition.”

“Having already partnered with TIP Technologies for years, we are confident that the team’s knowledge and strength in complex manufacturing is the perfect complement to Deltek’s government contracting solutions. Together with TIP Technologies, we now offer the most complete integrated ERP, QMS and MES solutions for government contractors to meet strict federal government compliance requirements. We are thrilled to begin this journey together with the TIP Technologies team now officially part of Deltek,” said Mike Corkery, President and CEO at Deltek. “While Deltek is excited to add TIP Technologies to its existing portfolio of purpose-built solutions for government contractors, we do remain committed to supporting the needs of the A&D firms using third party ERP solutions.”

Deltek + TIP Technologies will be highlighted in sessions and demos this November at Deltek’s annual user conference, Deltek ProjectCon.

### ***NTT DATA Announces Intent To Acquire Umvel***

27 September 2022

NTT DATA, a digital business and IT services leader, announced it has signed a definitive agreement to acquire Umvel, a digital design and engineering firm. Headquartered in Mexico City, Umvel provides high-end design and digital product development services and brings a strong culture of talented and in-demand designers and engineers.

“We are committed to bringing the best and brightest talent to our clients,” said **Wayne Busch, Group President, Consulting and Digital Transformation, NTT DATA Services**. “Our intent to acquire Umvel supports NTT DATA’s strategy to be the preferred digital innovation partner in the market. Growing our Mexico-based team expands our ability to deliver digital engineering services to our clients in Mexico and enhances our digital product motions from ideation through launch across all of North America.”

Once the transaction is closed, Umvel will build on NTT DATA’s successful acquisitions in the digital

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design and engineering space including Nexient, Vectorform and Postlight. More than 140 team members will join NTT DATA.

“Joining the NTT DATA family of companies is a recognition of the excellence in digital product development we have strived for since our inception,” said **Jaime Reixach Arias, Chief Executive Officer, Umvel**. “We are very excited to join NTT DATA and work together to continue creating a best-in-class work culture that the most ambitious digital talent aspires to be part of.”

“Our talented team of digital design experts deliver end-to-end capabilities to help our clients excel in the digital economy,” said **Frank van de Ven, Chief Strategy Officer, Umvel**. “By joining forces with a global brand, we can help make a bigger impact for our clients and an equally exciting opportunity for our team.”

Umvel clients and employees will benefit from access to NTT DATA’s powerhouse of innovation resources, including a \$3.6 billion average annual R&D investment and a team of 5,000 research professionals worldwide. NTT DATA recently announced the launch of 6 innovation centers across the globe to focus on bringing advanced technologies to clients with an Innovation Studio co-located in Plano, TX.

The transaction is subject to customary closing conditions and is expected to close in the following weeks.

## Company News

### ***Actify Completes SOC 2 Type I Certification***

22 September 2022

Actify, the leading provider of visualization and program management solutions for the automotive supply chain, is proud to announce that the company has successfully completed the Service Organization Control (SOC) 2 Type 1 audit. As companies increasingly use outside vendors to perform activities that are core to their business operations and strategy, there is need for more trust and transparency into cloud service providers’ operations, processes, and results.

Actify’s SOC 2 report verifies the existence of internal controls which have been designed and implemented to meet the requirements for the security principles set forth in the Trust Services Principles and Criteria for Security. It provides a thorough review of how Actify’s internal controls affect the security, availability, and processing integrity of the systems it uses to process users’ data, and the confidentiality and privacy of the information processed by these systems. This independent validation of security controls is crucial for customers in highly regulated industries.

“Our solutions manage not only our customers’ data, but also our customers’ customers’ data, so it is paramount that they have trust and confidence in our security posture,” said Dave Opsahl, CEO of Actify. “Security has always been an Actify priority.”

Actify uses an automation platform to continuously monitor 100+ security controls across the organization. Automated alerts and evidence collection allows the company to confidently prove its security and compliance posture any day of the year, while fostering a security-first mindset and culture of compliance across the organization.

In addition, all employees will complete an annual security training program and employ best practices when handling customer data; the company will work with industry leading security firms to perform annual network and application layer penetration tests; utilize a variety of manual and automatic data

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security and vulnerability checks throughout the software development lifecycle; and data is encrypted both in-transit using TLS and at rest.

## ***Autodesk Appoints Dara Treseder as Chief Marketing Officer***

26 September 2022

Autodesk, Inc. announced the appointment of Dara Treseder as chief marketing officer, effective on October 14, 2022. Treseder will join Autodesk from Peloton Interactive, where she serves as SVP and global head of marketing, communications and membership. As CMO of Autodesk, Treseder will be responsible for Autodesk’s marketing strategy globally, and oversee the company’s worldwide marketing, brand & communications, global demand generation, and education business teams. Treseder’s expertise in category creation and experience leading high-performing global marketing organizations will help advance Autodesk’s mission to empower innovators to achieve the new possible.

“Dara is an innovative, dynamic, and accomplished leader—with a track record of turning customer experience into a competitive advantage for brands. We’re thrilled to welcome her to Autodesk,” said Steve Blum, chief operating officer and executive vice president of Autodesk. “With her experience leading companies through transformation and driving high impact, creative digital marketing campaigns, Dara will be instrumental in helping Autodesk deliver the world’s leading design and make platform to our customers.”

“Autodesk helps millions of people design and make a better world for all. I am greatly inspired by its bold mission, inclusive culture, and authentic values,” said Treseder. “From greener buildings to smarter products to award-winning TV shows, movies, and games—Autodesk turns ideas into reality. I look forward to advancing the design and make category, and helping empower our customers to solve the most important design, business, and sustainability challenges of our time.”

Prior to Peloton, Treseder was chief marketing officer at Carbon, a leading 3D printing technology company. She also previously served as chief marketing officer of GE Business Innovations and GE Ventures, and has held marketing leadership roles at Apple and Goldman Sachs.

In 2022, Treseder was recognized by Forbes as the top CMO on its World’s Most Influential CMOs list. She’s also received recognition from Adweek (Brand Genius; Women Trailblazers), Business Insider (Top 25 Most Innovative CMOs), Inc. (30 Inspirational Women to Watch in Tech), and is a member of the Advertising Hall of Achievement, the premier industry recognition for leaders making a significant impact in the industry and in their communities.

An advocate for public health, Treseder serves as chair of the board of Public Health Institute and is a board director at Robinhood. Treseder holds a Bachelor of Arts cum laude with highest honors from Harvard University and a Masters of Business Administration from Stanford University.

## ***Bechtle opens new data centre in Rhine-Neckar metropolitan region***

27 September 2022

**With its new data centre in the Rhine-Neckar metropolitan region, Bechtle is expanding its capacities for private cloud services in collaboration with colocation provider, PFALZKOM, which operates the twin data centres Rhine-Neckar I and II on the Mutterstadt campus. The new Bechtle data centre is already up and running with the first customer environments already having been successfully migrated. The new PFALZKOM data centres not only deliver outstanding availability and security, but also fulfil essential criteria laid out by the Climate Neutral Data Centre Pact.**

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With this additional data centre infrastructure, Bechtle has significantly expanded its existing Infrastructure as a Service (IaaS) capacities. The Mutterstadt data centre also enables the highly-available and scalable operation of private cloud services with numerous SMEs, large corporations and public-sector customers the first to benefit.

“We are seeing a growing demand for hosted private cloud environments, which will be able to operate long into the future at the Rhine-Neckar Campus data centre. Our customers will benefit from a combination of highly available and stable IT systems with a focus on sustainable resource use,” says Dirk Müller-Niessner, Managing Director, Bechtle Hosting & Operations.

## **TÜV-certified high availability**

The individual data centres at the Rhine-Neckar Campus are TÜV-certified to meet Tier 3+ availability criteria, achieving the highest Tier 4 ranking when considered together. The Rhine-Neckar II data centre is characterised by multiple redundant connections through various carriers and is linked to all major exchanges through the PFALZKOM fibre optic backbone. Both data centres are linked to the world’s largest internet exchange, DE-CIX.

## **Climate-friendly operation**

As a signatory of the Climate Neutral Data Centre Pact, PFALZKOM has committed itself to the ensuring the climate-friendly operations of its data centres by 2030 as well as to achieve specific energy efficiency values. It has already succeeded in accomplishing some major objectives, for example, the data centres run entirely on renewable energy and have been running on 100% green electricity provided by the group’s parent company, Pfalzwerke AG, for several years. In terms of the key value for energy efficiency—Power Usage Effectiveness (PUE)—the Rhine-Neckar II data centre has already attained the target value of < 1.3, while Rhine-Neckar I is not far behind with a PUE value of < 1.4.

## ***FARO Appoints Patrick Bohle as President, Building Insights***

23 September 2022

FARO® Technologies, Inc., a global leader in 4D digital reality solutions, announced the appointment of Patrick Bohle to the position of President, Building Insights.

FARO's strategy to enable the digitalization of the world's physical assets includes the development of software applications to increase the value customers realize from FARO's broad set of 3D capture tools. To ensure the focus needed for success, Patrick Bohle and his team will be singularly focused on the identification, creation and deployment of software targeted at generating customer insights from 4D digital reality capture.

FARO will initially target applications in Facilities Management as well as the \$7 trillion Construction market, of which approximately 10% is spent on waste. Improving customers' workflows to leverage 4D virtual models can reduce waste and dramatically improve customers' productivity, predictability, and profitability, thereby enabling strong growth and long-term financial performance at FARO.

"As we enter the next phase of FARO's transformation, I'm pleased to have Pat, a senior executive with extensive experience, leading our SaaS business which is focused on the Architectural, Construction, Engineering and Operations (AECO) market," stated Michael Burger, FARO's President and Chief Executive Officer.

"I'm excited by the opportunity to leverage FARO's leadership position in 3D hardware to improve customer insights and generate value from 4D models," said Patrick Bohle, President, Building Insights. "FARO has the foundational technology to offer the broadest set of capabilities that will drive long-term

demand for both FARO hardware and software as we integrate virtualized management and collaboration into customer workflows in the building lifecycle management market," concluded Bohle.

## ***Founding of the BIM Building Automation & Electrical Engineering Consortium within the VDMA***

21 September 2022

### **CADENAS and 23 companies, institutes & universities are working towards greater awareness and greater consideration in the BIM planning process**

In order to better represent the topic of Building Information Modeling (BIM) for building automation and electrical engineering by the VDMA, the consortium BIM Building Automation and Electrical Engineering (AG BIM GA/ET) in the VDMA was founded on September 8, 2022 by 18 companies and 5 universities and institutes from the fields of building automation and electrical engineering.

The consortium takes over the previous working groups of the trade association Automation + Management für Haus + Gebäude - AMG and will continue them concentrated on the topic of BIM. The working group is to serve the creation of a greater awareness and stronger consideration of the entire technical building equipment, in particular building automation and electrical engineering, in the BIM planning process. To this end, the work and activities in the field of BIM are to be better coordinated and the financing of upcoming projects is to be ensured.

In addition to advising and informing working group members on all issues relating to BIM, and creating and collaborating on technical standards on the subject of BIM, the consortium is available for cooperation with other associations and organizations in the field of BIM. Membership in the working group is open to all interested companies, universities and institutes. Training courses on Open-BIM will also be offered in the future for all those interested in the topic of BIM.

### **These are the founding members of the consortium BIM Building Automation and Electrical Engineering**

- Actemium Controlmatic West GmbH
- Albrecht Jung GmbH & Co.KG
- BELIMO Automation AG
- CADENAS GmbH
- EPLAN GmbH & Co. KG
- Fachhochschule Münster - Fachbereich Energie Gebäude Umwelt
- Fraunhofer-Institut für Solare Energiesysteme ISE
- Günther Spelsberg GmbH + Co. KG
- Hochschule für Technik und Wirtschaft Dresden - Fakultät Maschinenbau - Studiengang Gebäudesystemtechnik
- Honeywell Building Solutions
- Ingenieurbüro Peter Oel
- Kieback&Peter GmbH & Co. KG
- OBO Bettermann Holding GmbH & Co. KG
- Oppermann Regelgeräte GmbH

- PohlCon GmbH
- Sauter-Cumulus GmbH
- Schneider Electric GmbH
- SIEMENS AG
- TRIC GmbH
- TROX GmbH
- TU Dresden - Institut für Angewandte Informatik
- WAGO GmbH & Co KG
- Wieland Electric GmbH
- more manufacturer to follow

## **CADENAS as a valuable partner for digital product data for the BIM planning process**

Karsten Spieß and the team of the CADENAS Competence Center for TGA compliant BIM CAD product data support component manufacturers in the optimal provision and marketing of VDI 3805 compliant product data. With the digital product catalog solution from CADENAS, manufacturers can generate extensive multi BIM & CAD product data. This makes it possible to offer planning data with millions of combinations in terms of CAD system, classification, specifications, level of development, languages, etc. from a central database - no matter what individual requirements customers have for the respective product data.

## ***HCLTech Launches New Brand Positioning Of Supercharging Progress***

26 September 2022

HCL Technologies (HCLTech), a leading global technology company, launched its new brand identity and logo, underpinned by the distinct positioning of Supercharging Progress™ that reflects its commitment to clients, its people, communities and the planet.

The company's new 'HCLTech' brand and logo will be at the heart of its go-to-market strategy and represent its differentiated portfolio of services and products that supercharge digital transformation for enterprises at scale.

As the company nears the \$12 billion revenue mark, **Roshni Nadar Malhotra, Chairperson, HCLTech** described the announcement as an evolution for HCLTech to embrace a distinct global brand identity while retaining connectivity with HCL Group. "For HCLTech, Supercharging Progress is about accelerating the digital transformation for our clients everyday as well as the ethos of the organization to advance the aspirations of our people, contribute to a sustainable planet and uplift local communities across our global footprint."

**C Vijayakumar, CEO & Managing Director, HCLTech** said, "Today, we are proud to share our purpose statement - ***to bring together the best of technology and our people to supercharge progress.*** Our purpose accelerates our journey to be the digital partner of choice for global enterprises through differentiated services and products and being an employer of choice for top talent. It also underscores our responsibility to continue contributing toward inclusive growth of communities where we operate and a sustainable planet for the generations to come." Elaborating on the rationale of the new brand positioning, C Vijayakumar added, "Supercharging Progress captures the essence of what we do today and our aspiration of what we want to do more of – at scale, at speed, for our clients, for our people, communities and planet."

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The company also launched its new employee value proposition (EVP) – ‘Find Your Spark’. Built on the broad tenets of opportunity, respect, and trusted employment, HCLTech’s EVP emphasizes its commitment to help both current and prospective employees maximize their career potential and ambitions. The company has also expanded its global CSR partnerships and volunteer-led initiatives to supercharge its efforts across core pillars of education and employment, health, wellbeing and basic needs, and environment.

“Today marks a major milestone in HCLTech’s exciting journey as we carve out a distinct brand identity and purpose that will power us – at speed - on this next chapter of our journey,” said Jill Kouri, Chief Marketing Officer, HCLTech. “With such a rich heritage, world-class delivery and emphasis on client service, we will always embody a spirit of flexibility and commitment to being a true partner, in the trenches with our clients every step of the way.”

## ***Honeywell's Corporate Headquarters Earns LEED® Gold***

27 September 2022

Honeywell announced that its Charlotte, N.C., corporate headquarters building has earned the coveted Leadership in Energy and Environmental Design (LEED) Gold certification from the U.S. Green Buildings Council (USGBC) for its building envelope and tenant upfit. The most widely used green building rating system worldwide, LEED is a globally recognized symbol of sustainability achievement and leadership.

The 23-story, 313,000 sq. ft. facility located in **Charlotte's** Legacy Union site incorporates Honeywell's latest building controls, fire and life safety, security, energy and carbon management and indoor air quality (IAQ) technologies – all of which gave the new building an edge in the LEED assessment. The technology is anchored by the Honeywell Forge enterprise performance management software-as-a-service that uses artificial intelligence (AI) and machine learning (ML) algorithms to help deliver operational efficiencies and help meet energy performance goals.

USGBC assesses 100-plus elements of building design, construction, furnishing and maintenance and awards points to a project based on energy efficiency, water conservation and other measures of environmental sustainability. In its report, the USGBC cited the building's optimization of energy performance, including advanced energy metering and lighting power reduction as well as its indoor environmental quality, including enhanced IAQ strategies, low-emitting construction materials, interior lighting and effective use of daylight; and its use of innovative technologies. The building also earned high marks for sourcing of raw materials, material ingredients and construction waste management.

"We're honored to receive the LEED Gold certification from USGBC," said James O'Reilly, vice president of global corporate real estate, Honeywell. "We've been purposeful to create a building that not only provides an occupant-first experience but also is mindful to the impact on our environment. Our Charlotte headquarters allows us to show our customers how our ready now solutions can help solve some of their biggest challenges – meeting sustainability goals and creating a better occupant experience."

"Achieving LEED certification is more than just implementing sustainable practices. It represents a commitment to making the world a better place and influencing others to do better," said Peter Templeton, interim president and CEO, USGBC. "Given the extraordinary importance of climate protection and the central role buildings play in that effort, Honeywell is creating a path forward through their LEED certification."

Honeywell Forge Predictive Maintenance analyzes and optimizes systems maintenance to recommend

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early and proactive actions to avoid costly, unnecessary changes and reduce unplanned, reactive work on building systems.

Carbon & Energy Management, part of the Honeywell Buildings Sustainability Manager powered by Honeywell Forge, continuously investigates, analyzes and optimizes building performance, down to an asset-specific level, measuring critical sustainability KPIs including carbon emissions.

Earning the LEED Gold certification will further help Honeywell realize its commitment, announced in April 2021, to achieve carbon neutrality in its operations and facilities by 2035. The company is working to achieve this goal by further investing in energy savings projects, converting to renewable energy sources, completing capital improvement projects at its sites and in its fleet of company vehicles, and using credible carbon credits, if necessary.

Honeywell's commitment to carbon neutrality builds on the company's decades-long history of innovation to help its customers meet their environmental and social goals. In 2021, approximately 60% of the company's revenue and more than 60% of Honeywell's new product research and development investment was directed toward products that improve ESG outcomes for customers.

## ***Infosys Digital Centre Opens in Calgary with Commitment to Creating 1,000 New Local Jobs by 2024***

26 September 2022

Infosys, a global leader in next-generation digital services and consulting, inaugurated the Infosys Digital Centre in Calgary, Alberta, Canada. Infosys also announced it would bring 1,000 jobs to Calgary over the next two years, doubling its original commitment from when the company first expanded into the region in 2021. This will support the company's growth across Canada as it also plans to double its total workforce commitment in the country to 8,000 employees by 2024.

"Today is the beginning of our next chapter in Canada as we open the Infosys Digital Centre in Calgary," said Ravi Kumar, President, Infosys. "We chose to open in Calgary because it is a center of tech excellence with rich IT talent and a strategic location that enables us to scale work with clients across key industries, such as energy, natural resources and agriculture. Calgary's IT innovation potential is unlimited, and we are delighted to be a part of its future."

The Calgary Centre, located in Gulf Canada Square in the city's downtown commercial district, will help Infosys work more closely with clients in the region to develop cross-industry solutions to pressing business challenges in such areas as intelligent automation, green technology, user experience and advanced digital technologies, including big data and cloud. The Centre will train, upskill and reskill Infosys and client employees in the technologies required to help Canadian businesses accelerate their digital transformation.

"Infosys' choice to establish Calgary as a major technology centre is a big moment for our city and further demonstrates our city as a prime destination for the world's leading technology companies," said Calgary Mayor Jyoti Gondek. "Building a thriving innovation ecosystem takes a village, and Infosys will play a key role in our growth. In particular, Infosys' partnerships with local universities to train Calgary students and create job opportunities will help propel us forward."

"It has been just a year since Infosys announced that it would continue to grow in our region and bring 500 skilled jobs to Calgary, and they have already delivered on that commitment," said Alberta Premier Jason Kenney. "I'm very pleased they are doubling that promise to bring a total of 1,000 jobs to this region. Thanks to Alberta's Recovery Plan and our government's relentless pursuit of economic growth, Alberta's economy is more diverse than ever before, attracting new investments, and creating new jobs

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in exciting new sectors.”

“This is an exciting day for Alberta. Infosys could have chosen any place in Canada for this new Digital Centre, but they selected Calgary to tap into our pool of tech talent and to form partnerships with our educational institutions. Infosys will be training the next generation of technology innovators and business leaders right here in our province,” said Tanya Fir, Minister of Jobs, Economy and Innovation, Government of Alberta.

Infosys’ collaborative relationships with academic institutions in the province, including the University of Alberta, will provide recent graduates and experienced professionals with exposure to the latest training, research and career mentorship. Infosys’ academic collaboration augments the company’s dedicated learning facilities within the Centre, which will deliver continuous learning across the employee lifecycle.

“The opening of the Infosys Digital Centre in the heart of our city shows that Calgary is recognized as a top tech location where bright minds and big ideas come together from around the world to help solve global challenges and make the extraordinary happen,” said Brad Parry, President and CEO, Calgary Economic Development.

Infosys has recently been certified as a Great Place to Work® in Canada for 2022. The certification emphasizes Infosys’ strategic commitment to its localization strategy in Canada. The certification also highlights Infosys’ efforts to power digitalization in Canada by doubling its Canadian workforce and shrinking the IT skills gap in the country through sustained investments in training.

## ***Infosys wins four 2022 HPE System Integrator of the Year Awards***

26 September 2022

Infosys has been recognized by Hewlett Packard Enterprise (HPE) as the 2022 HPE System Integrator of the Year Awards for the Global Ecosystem, Asia Pacific, DACH (Germany (D) Austria (A), and Switzerland (CH)), and North America and Canada regions. Infosys was awarded for its outstanding performance and commitment to customer excellence.

The HPE Partner Awards 2022 were awarded in recognition of exceptional results in financial performance, innovative solutions, and meaningful business results.

Infosys is a top-performing partner for HPE in the Hybrid Cloud and Infrastructure solutions space across the globe. Infosys is enabling enterprises to set up a secure and scalable hybrid environment along with building purpose-fit and future-ready core infrastructure by leveraging Infosys Cobalt, a set of services, solutions, and platforms for enterprises to accelerate their cloud journey. Further, these solutions address enterprise challenges, enabling them to transform digitally from edge to cloud, modernize the application stack, streamline operations and processes, reduce total cost of ownership, and help enterprises in their sustainability journey.

Infosys infrastructure services are powered by its IPs such as Infosys Polycloud Platform which is integrated with HPE, skilled talent pool, mature project execution methodologies, and supported by a vast partner ecosystem. All such offerings accelerate digital journey for enterprises while ensuring minimal business disruption.

## ***Procore Opens First MENA Office in Dubai to Reinforce Industry Commitment***

26 September 2022

**Procore Technologies, Inc.**, a leading global provider of construction management software, announced the opening of its first Middle East and North Africa (MENA) office, located in Dubai's Internet City, following a successful launch in the region last year. This new office reflects Procore's long-term investment and commitment to the MENA region, and signifies the company's continued growth and global expansion.

The new workplace will be led by the company's Senior Director, Head of MENA, Mohamed Swidan. Since 2021, Swidan has hired a team of over 20 people, all based locally, with the technical knowledge and resources to meet customers' needs across sales, marketing, implementation, customer success and more.

This new regional base will help Procore further deliver on its mission of connecting everyone in construction on a single platform, ultimately enabling owners, general contractors and specialty contractors to build smarter across MENA. The power of Procore to accelerate collaboration, streamline communication and provide real-time visibility into project performance is vital given construction has become integral to the region's growth as outlined in the likes of the **Kingdom of Saudi Arabia's Vision 2030** and the **Dubai 2040 Urban Master Plan**.

*"I'm delighted we are opening our first Procore office in MENA. Since our launch last year, we've demonstrated our commitment to the region and its construction ambitions. The heart of the region's initiatives are based on pillars such as inclusivity, innovation and sustainability – values we believe in wholeheartedly at Procore. We plan on playing an integral role in enabling construction professionals, businesses and the region to realize their potential. Now, with a team on the ground empowered to meet local needs with global resources, we have an even greater opportunity to do so,"* says **Mohamed Swidan, Senior Director, Head of MENA at Procore**.

**Tooy Courtemanche, Procore's founder and CEO** adds: *"At Procore, we are committed to being a partner to our customers, not just a software provider. Our new office will enable us to deliver on that partnership promise, and speaks volumes about our dedication to the region and our customers there."*

## **Event News**

### ***Aras to Discuss Enabling the Tool-Agnostic Digital Thread for a Digital Twin Configuration at Upcoming Conferences***

23 September 2022

Aras, which provides the most powerful low-code platform with applications to design, build, and operate complex products, today announced presentations at the upcoming PLM Road Map conference on September 27 and the Global Product Data Interoperability Summit (GPDIS) on September 28-30 in Scottsdale, Arizona.

The GPDIS and PLM Road Map conferences function as communications hubs for aerospace and defense industry leaders to foster knowledge in systems engineering, design collaboration, and product lifecycle management through the exchange of ideas, solutions, and methods. They also serve to build consensus for the core data representations in tool and process standards, and to share real-world experiences about implementations. This year's event focus is "Data Resilience for Sustainability."

Marc Lind, SVP of Strategy at Aras will present at PLM Road Map on September 27 at 2:50pm.

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Alan Mendel, VP of Business Development at Aras and Marc Lind will present at GPDIS on September 28 at 11:30am during the digital twin and digital thread track.

## **Enabling the Tool-agnostic Digital Thread for a Digital Twin Configuration**

As aircraft and weapons systems include more connectivity, sensors, and intelligence, each product asset needs an accurate digital representation, a digital twin, for context to interpret the data streams. Without configuration context, the time series data generated in production and during ongoing operation lack integrity and can lead to misdirected actions which could result in safety issues and liability. In addition, the ability to interpret and act upon these data often require traceability to prior information from related revisions, the digital thread, to make decisions. As artificial intelligence and machine learning get introduced to enable the smart factory, as well as aircraft and other assets in the field, the necessity becomes even greater.

This presentation will explore why next generation aircraft - including unmanned aircraft systems, remotely piloted aircraft systems, unmanned aerial vehicles (UAS/RPAS/UAV) - defense technologies, manufacturing equipment, vehicles, and other systems require the configuration context of the digital twin with a tool-agnostic digital thread. Attendees will also learn new approaches to realize these initiatives.

To learn more, speak with an expert, and view a solution demonstration, please visit Aras at booth #E-104. Conference agenda and registration can be found [here](#).

## ***Autodesk Paves Path to Digital Transformation in the Cloud***

27 September 2022

Autodesk, Inc. kicked off Autodesk University (AU) 2022, the company's annual design and make conference and premier learning experience. After two years as a digital experience, the event returns in person this year in New Orleans and runs September 27-29.

AU brings together thousands of industry experts and thought leaders at the forefront of architecture, engineering, and construction (AEC), product design and manufacturing (D&M), and media and entertainment (M&E). Today, organizations across each of these industries face unprecedented challenges, from supply chain disruption and labor shortages to distributed teams and more. Attendees at AU will have the opportunity to hear from leaders in AEC, M&E, and D&M. Speakers from Autodesk and organizations such as the City of New Orleans, Harvard Business School, British Antarctic Survey, Amazon Studios, BBI Autosport, and more will share how they are achieving better outcomes by connecting people, processes, and technology.

“Our industries are embracing digital tools, but too often, people remain siloed in their respective jobs with disconnected processes, burdened by data that is not as useful as it could be,” said Andrew Anagnost, Autodesk president and CEO. “The time is now for our customers to fully realize the benefits of digital transformation. Our Autodesk cloud capabilities will empower the innovators and creators we serve to be more productive, and more profitable.”

Autodesk is supporting and advancing its customers' digital transformation journeys by connecting workflows in the cloud for better outcomes and workflows. At AU, Autodesk is introducing three industry clouds: Autodesk Forma, Autodesk Flow and Autodesk Fusion. Part of the Autodesk Platform, these industry clouds will connect processes to drive new ways of working.

- **Autodesk Forma**, the industry cloud for AEC, unifies building information modeling (BIM) workflows for teams who design, build, and operate the built environment. The first Forma

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offering will help customers extend the BIM process into planning and early-stage design.

- **Autodesk Flow**, the industry cloud for M&E, connects customer workflows, data, and teams across the entire production lifecycle from earliest concept to final delivery. The first cloud product available on Flow will focus on Asset Management, giving users the ability to manage assets throughout the entire production process.
- **Autodesk Fusion**, the industry cloud for D&M, connects customer data and people across the entire product development lifecycle from top floor to shop floor. Fusion 360, together with Autodesk Fusion 360 Manage with Upchain, and Prodsmart make up the initial cloud offerings within Autodesk Fusion.

“Fusion 360 is the best example of where we’re taking our industry clouds, providing a connected environment that flows up and down a project lifecycle,” said Raji Arasu, Autodesk CTO. “As we build out each industry cloud, a central cloud information model will give every collaborator the right data at the right time on the device of their choice.”

Underpinning these three clouds is Autodesk Platform Services, the set of cross-industry APIs and services formerly known as Forge. Autodesk Platform Services provides customers with the ability to customize solutions, create innovative workflows, and integrate other tools and data with our platform.

Live in New Orleans and online for audiences everywhere, Autodesk University 2022 includes mainstage sessions, panel discussions, thought leadership presentations, and industry case studies, along with Autodesk product briefings and trainings. There are more than 450 classes led by industry and product experts offering insights into the future of design and make. AU also offers free year-round access to learning content, professional development, and inspirational industry talks.

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## ***bauma 2022: ALLPLAN presents Solutions for Prefabrication***

29 September 2022

ALLPLAN, global provider of BIM solutions for the AEC industry, will present its product portfolio specifically for the precast industry at bauma 2022 in Munich. A special highlight will be the presentation of the latest versions of the software solutions Planbar and Tim.

Dr. Detlef Schneider, CEO of ALLPLAN: *"We are very pleased to be exhibiting at bauma for the first time this year. As one of the largest trade fairs for construction machinery worldwide, bauma offers a unique opportunity to position ourselves as an innovative provider of platform-based BIM workflows from design to manufacturing and construction."*

Planbar: more productivity with automated workflows

At bauma, the company will provide information on how Planbar enables precise design and detailing of structural precast elements with highly automated workflows. For example, Planbar automatically creates shop drawings including reinforcement, fixtures, and dimensioning. In addition, architectural models and MEP objects can be quickly imported and used for precast element design. Furthermore, Planbar offers the possibility to create elements either using parametric input or with freeform modelling tools.

Innovative solutions for precast fabricators

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With the proven products Planbar Walls and Planbar Slabs, the company offers dedicated workflows for highly automated wall and slab design as well as reliable production data in addition to the range of functions in Allplan. Tim offers vivid work preparation in 3D, direct access to all relevant project information and sophisticated quality assurance. Customer Excellence Services enable users to get the most out of the software through customized training and responsive support.

At booth B1.217, interested visitors will receive comprehensive information about the portfolio of the Competence Center Allplan Precast, whose solutions are specially tailored to the requirements of the precast industry. Experts from sales and technical staff will exclusively answer questions regarding the innovations in the software solutions for precast projects.

## ***ESI Group - Join us for our 2022 Investor Conference***

26 September 2022

Please click [here](#) to register

Following the publication of ESI Group's half-year 2022 sales & results on September 7th, 2022, ESI Group is pleased to invite you to its Investor web conference

on **September 27th, 2022 at 03:00 pm CET**

- update on ESI strategic plan "OneESI 2024 – focus to grow"
- Q&A session

Please note that is necessary to use the online platform, in order to join the webinar and participate to the Q&A session.

More information [here](#) about the plan

## ***OPEN MIND presents hyperMILL® at the Formnext exhibition and conference***

27 September 2022

CAM and post-processing are both essential for additive manufacturing, which is why OPEN MIND will be on hand as an exhibitor from 15 to 18 November 2022 at Formnext 2022 (Messe Frankfurt, **Hall 12.0, Booth A39**). OPEN MIND will be showcasing its *hyperMILL*® ADDITIVE Manufacturing CAD/CAM solution along with *hyperMILL*® BEST FIT, which offers an innovative way to use a digital twin.

*hyperMILL*® ADDITIVE Manufacturing opens up the flexible options available with highly complex 5-axis simultaneous machining to direct energy deposition (DED) and wire arc additive manufacturing (WAAM). The application of material can be easily programmed using OPEN MIND's software that can be automatically simulated to avoid collisions. *hyperMILL*® can also be used to tap the potential of powder bed fusion (PBF), another additive manufacturing process. Additionally, post-processing and the removal of support structures in 5-axis machining can also be programmed in *hyperMILL*®.

### **The virtual world is adapting to the real world**

Aside from the special case of hybrid machines, where additive and subtractive manufacturing are carried out in subsequent steps, only minimal alignment of a nearly finished part in the machine tool is required for remachining. OPEN MIND's *hyperMILL*® BEST FIT revolutionizes this step to prepare for machining. Instead of having to manually align the clamped stock to the NC program using a dial gauge, control cycles, plus a great deal of sensitivity, the *hyperMILL*® CAM system automatically aligns the NC program to the component position. Based on the virtual machine in *hyperMILL*®, this method saves

time and increases process reliability. The misaligned stock is probed on the machine by way of a 3D measurement, the measurement log is sent to the CAM system, and *hyperMILL*<sup>®</sup> BEST FIT adjusts the NC code to the actual position of the component. The virtual world (programming) is adapted to the real world (clamping), not the other way around! The adjusted NC code is then simulated in the virtual machine on the actual clamping setup and automatically optimized.

## **Examples at the show**

To showcase its additive manufacturing solutions at Formnext, OPEN MIND will be presenting examples from the fields of medical engineering and the aerospace industry.

## **Implementation Investments**

### ***Accenture to Accelerate Cyient's Digital Transformation Journey***

26 September 2022

Accenture is enabling Cyient, a global engineering, manufacturing and digital technology solutions company, to reinvent and enhance its business operations using digital technologies such as artificial intelligence (AI) and robotic process automation.

In addition to deploying an AI-based digital platform that will consolidate Cyient's operations and technology application architecture, Accenture is also redesigning the company's finance, accounting, human resources, and information technology processes to make them more productive and agile. The program is designed to help Cyient enable predictive and proactive maintenance, automate routine functions, empower its people to focus on more valuable work and support business growth.

The collaboration will leverage the Accenture SynOps platform — which orchestrates the optimal combination of human + machine talent to accelerate the journey to digital, data-driven intelligent operations — and the Accenture myWizard<sup>®</sup> intelligent automation platform.

“As a technology company, we know that digital technologies are key to driving our growth and that of our customers,” said Ajay Aggarwal, Cyient's chief financial officer. “With this initiative, we are harnessing Accenture's industry-leading digital expertise to enhance our operational agility, accelerate innovation, improve customer outcomes and drive profitable growth.”

Sandeep Dutta, managing director, who leads growth and strategic client relationships for Accenture in India, said, “Intelligent operations are key to becoming an agile, competitive, future-ready enterprise. We are teaming with Cyient to modernize its operations with data and insights to drive its next wave of growth.”

### ***AECOM extends multi-decade partnership providing program and project management services to the Greater Orlando Aviation Authority***

27 September 2022

AECOM, the world's trusted infrastructure consulting firm, announced it has been awarded a contract by the Greater Orlando Aviation Authority (GOAA) to provide ongoing program and project management services, continuing a decades-long partnership with the Authority. In this role, AECOM expects to support the enhancement of GOAA's assets in line with the agency's primary goals of excellent customer service, fostering economic development through expansion, leveraging federal and state funding, facilitating safety and security, and being fiscally responsible.

“Our comprehensive approach starts with a team of highly experienced program management and

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transportation professionals who not only know the aviation industry, but have a deep understanding of GOAA operations,” said Drew Jeter, chief executive of AECOM’s global Program Management business. “Leveraging our *Think and Act Globally* strategy, we’re proud to deploy innovations and best practices honed from our extensive aviation experience at cutting-edge facilities around the world and look forward to bringing this expertise to bear at one of the nation’s fastest-growing airports.”

AECOM’s scope is expected to encompass program, project, and construction management, including program controls, development of master program schedules, budget review, funding support, design management, project monitoring, quality assurance, risk management, design scopes, and contract administration.

“We’re excited to continue our longstanding partnership with GOAA as it enhances and strengthens critical infrastructure to meet its ever-expanding role as a global aviation hub,” said Dan Faust, chief executive of AECOM’s U.S. East and Latin America region. “With twenty-five years of hands-on experience delivering successful results for the Authority, our diverse team of skilled professionals is highly equipped to apply its industry-leading expertise to support the cost-effective and timely maintenance, expansion, and renovation of GOAA’s world-class facilities.”

GOAA manages Orlando International Airport (MCO) and Orlando Executive Airport (ORL). MCO saw more than 50 million passengers in 2019 and is the world’s seventh busiest airport by passenger traffic and the second busiest origin and destination market in the U.S. AECOM has been serving GOAA as one of its program managers on MCO’s new South Terminal Complex Phase 1 Program and in recent years has managed the completion of the Intermodal Terminal Facility, Automated People Mover, and Parking Garage C.

## ***Delivering a large Construction Project with a Digital Twin***

29 September 2022

Using a digital twin was a game changer for the hospital construction project Glasblokkene Trinn 2 in Bergen, Norway. The new 50,000sqm hospital for children and teenagers is planned to be finalized by 2023 and will include outpatient clinics, operating rooms, X-ray departments, intensive care units and many more. By capitalizing on an open cloud-based planning and data management solution from the Nemetschek Group, the teams were able to implement a completely digital working method to maximize collaboration and efficiency. This provided significant cost savings, better project control, and substantially better outcomes for all project stakeholders.

As the largest construction project in the region for nearly 40 years, the Glasblokkene Trinn 2 project needed a solution that would centralize the enormous amount of data for the building in one place. The client, Healthcare Bergen, also wanted an open system so that other software could access and add to the data within this database. They opted to use *dRofus*, a Nemetschek Group solution, which would provide all the functionality required to connect different systems and provide a data-first digital twin solution.

### **A Golden Thread of Data**

The entire hospital project is created based on a master asset database for all disciplines and models – always up to date with all the documentation required for any element quickly to be accessed just by clicking on the item in the model. For this reason, *dRofus* was embedded into other applications, which allowed on-site updates of data directly into the master asset database, and then synced to the design and engineering models and IFC files for a consistent and current set of information. The centralized information management the database offered provided a golden thread of data throughout the project.

„Using a cloud-based federated repository, the golden thread of data, from the start on, combining it

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with real time data in the future will create additional huge benefits for the operate and manage phase: This is building lifecycle intelligence at its best,” says César Flores Rodríguez, Chief Division Officer Operate & Manage and Digital Twin.

## Preserving the Value of Information

By using a digital twin, the documentation was delivered and controlled before the work started on site, unlike a traditional approach where the documentation is delivered after the building is finished. Not only was the quality of the information enhanced, also complete and correct information was available throughout the project. The database was not only used for the design and construction but is also planned to be used throughout the entire building lifecycle, including operation, linked to building control systems via APIs.

“Information from every stage of a building’s lifecycle will have implications or value in other stages, so preserving and leveraging this data across the building’s lifespan makes total sense,” says Rolf Jerving, CEO of dRofus. “We call this Building Lifecycle Intelligence. Solutions like *dRofus* bridge the gap between BIM and Building Lifecycle Intelligence, creating a Digital Twin and providing a single source of truth that prevents data silos and ensures a data-driven approach that provides value across a built asset’s complete lifecycle.”

## A New Way of Working

The project was exclusively digital, with no printed drawings used at any stage. For some of the project partners, this was a totally new way of working. “Using a digital twin enabled all parties to work in the same environment, collaboration and cross-discipline coordination was improved. Responsibilities for different element data was able to be assigned in the consultants’ models, and these updates were shared with the entire project team”, says Main Project leader, Kristian Brandseth from Healthcare Bergen.

Having the contractors able to create data within the consultants’ models was another unique feature of this approach, which further supported collaboration between teams. Contractors could update product data, generate unique equipment IDs automatically, and update the status of objects. Another valuable addition was that everyone could see the current progress on site thanks to the live cross-disciplines dashboards built on top of dRofus. This enabled subcontractors to plan their work more efficiently, as they knew when another trade was finished.

## An Invaluable Tool

For the team on the Glasblokkene Trinn 2 project, the central database that connected all the project information held in different systems was crucial – many would not want to deliver such a large project without this tool. “The data-first digital twin solution has helped avoid data silos and resulted in better project outcomes. The value that the created data provided throughout the project has generated significant savings as well as better project control – and will continue to do so throughout the building’s operation”, explains Main Project Leader, Kristian Brandseth.

## ***du selects Hewlett Packard Enterprise for digital transformation journey to 5G***

29 September 2022

Hewlett Packard Enterprise announced that du, from Emirates Integrated Telecommunications Company (EITC), is deploying HPE’s end-to-end service orchestration software to accelerate their digital transformation and drive new revenue streams from their growing 5G network.

du is migrating from a legacy system to a next-generation Operations Support System (OSS) to support new services and enhance its customers’ experience. This digital transformation, powered by HPE,

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will enable du to expand its offerings, improve time to market, and monetize its 5G investment. As a leader in OSS service fulfillment and orchestration, HPE brings proven domain expertise and openness to du's new OSS stack and delivers a broad range of the orchestration use cases now required by the market. du's strategic Data Factory is the key enabler of its next-generation OSS with advanced analytics capabilities. Now with the simple integration into this existing single data layer and du's transformation program Business Support System (BSS), du's new orchestration stack is future-proofed by HPE's open standards-based approach and is ready for all 5G network functions (NFs) that du chooses in the coming years.

"The right OSS solution is a competitive advantage for us to provide our customers with the seamless digital lifestyle experience they deserve," said Peter Larnholt, Chief Information Officer at du. "HPE will deliver a huge leap in our technology capabilities in a very short space of time, giving us a stable and secure architecture that will support our leadership position in 5G. Our new technology estate will cement our reputation as one of the region's most advanced telcos offering some of the most advanced Edge orchestration and 5G services in the market."

"HPE OSS and orchestration software has been developed to reduce the risk of deploying 5G networks and help operators like du maximise their return on investment," said Ahmad AlKhallafi, managing director, UAE, Hewlett Packard Enterprise. "We're pleased to be supporting du with their next-generation OSS system that will help them seize the opportunity presented by 5G and network slicing and embrace open, cloud-native principles, as well as transforming their fixed line and business services."

du's new end-to-end orchestration solution is based on HPE's leading orchestration stack, including HPE Service Order Manager and HPE Service Director. Both products provide du with agility, elasticity and time to market advantage while supporting next generation services. The new stack provides a single orchestration platform enabling traditional fixed voice services, mobile services, SD-WAN services, physical and virtual NF management, Mobile Edge and 5G slice management. The new platform will support the end-to-end needs of du for order management, service provisioning and activation.

## ***French healthcare software provider, Maincare, selects HPE GreenLake to accelerate deployment of secure health cloud services***

29 September 2022

Hewlett Packard Enterprise announced that leading French healthcare software provider, Maincare has adopted the HPE GreenLake to power its highly secure cloud offering, Maincare Hosting Services. Maincare will use HPE Synergy, HPE's software-defined composable infrastructure, in an as-a-service model, to provide an easy-to-manage platform that responds to growing business demands for healthcare-certified, secure cloud services.

Maincare has supported the digital transformation of the healthcare industry for over 20 years and has gained extensive experience on how to comply with the stringent European healthcare record-keeping regulations. These incremental demands for sovereignty, security and availability present additional challenges for healthcare organizations looking to accelerate their digital transformation because all sensitive data, such as patient medical records, must be stored in highly secure and resilient environments in order to meet the demands of the fast-paced healthcare market, Maincare selected HPE GreenLake to provide a flexible, cost efficient and resilient technology environment to support growing business demands for SaaS healthcare solutions while meeting the necessary regulations. HPE

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GreenLake edge-to-cloud platform gives Maincare the appropriate solution to ensure additional capacity is still available to support increased business demand when required, thereby improving utilization levels and avoiding the waste of overprovisioning and minimizing the resources required for power and cooling.

“Technology offers immense possibilities to the healthcare industry to improve patient care and save lives, but that comes with additional responsibilities,” said Eric Machabert, CTO and CISO - Maincare Solutions. “HPE fully embraced that responsibility and we have worked alongside HPE as a trusted partner to create a platform, Maincare Hosting Services, that gives our users the agility of a cloud-based service, coupled with the data security we need. The result caters exactly to our current needs, but can grow as we do, making it both an environmentally and economically solution.”

The combined benefits of HPE GreenLake's flexibility and reliability with Data Services on HPE GreenLake manageability and a state-of-the-art data center on French soil allow Maincare to deliver the sovereign cloud experience their customers are looking for, while ensuring compliance with the most stringent standards and certifications, including ISO27001 and HDS certification.

“HPE GreenLake is a perfect platform for customers such as Maincare who operate in fast-paced, sensitive sectors like healthcare where sensitive data are at play,” said Charles Henry, Transformation, Solutions and Cloud Services Growth Leader at Hewlett Packard Enterprise. “We’re delighted to see our solution matching market demands for smarter healthcare, whilst simultaneously reducing overheads and environmental impact by creating a scalable system that can be turned up or down to exactly meet the current need.”

## ***Global Green Energy Company Fortescue Future Industries chooses AVEVA for renewables design projects***

22 September 2022

AVEVA, a global leader in industrial software, driving digital transformation and sustainability, will collaborate with Australian green energy company Fortescue Future Industries (FFI) to help develop the renewables sector. The FFI alliance will extend AVEVA’s contribution to the renewable energy transition across the globe, with customers in Asia, Europe, the Americas and now, Australia.

FFI will use hybrid cloud architecture to deploy AVEVA solutions in gathering and visualizing data in order to optimize performance across its operations. The industrial software includes AVEVA Unified Engineering, AVEVA Enterprise Resource Management and AVEVA Asset Information Management.

**Peter Herweck, CEO of AVEVA, said:** “We are delighted to be helping to accelerate the energy transition through our partnership with FFI. The agreement is in line with our belief that our biggest opportunity to positively impact greenhouse gas emissions is by using our software solutions to drive sustainable outcomes across the industrial sector – something we call our technology handprint. We look forward to strengthening our contribution to FFI’s green hydrogen vision, and to supporting all our customers on their path towards net zero.”

With access to built-in templates and visualization tools, FFI’s team will benefit from new ways to optimize operations, increase efficiency, improve collaboration, and reach their net-zero goals. The deployment lays the foundation for a complete operational digital twin and, ultimately, successful project execution. These capabilities are available to FFI and its engineering, procurement and construction partners (EPCs) through the AVEVA Flex subscription program, providing for streamlined use and consumption.

FFI is a global green energy company committed to producing zero-carbon green hydrogen from 100

per cent renewable sources. It is leading the green industrial revolution, developing technology solutions for hard-to-decarbonize industries, while building a global portfolio of renewable green hydrogen and green ammonia projects.

The new agreement with FFI is based on the *Project as a Platform (PaaS)* concept, where a single centralized hosted environment gives EPCs access to specific system domains so they can undertake designated engineering design activities in line with pre-agreed standards.

AVEVA and FFI are partners in the global First Movers Coalition (FMC), announced at the World Economic Forum earlier this year. FMC members commit to purchasing a proportion of industrial materials and long-distance transport from suppliers using near-zero or carbon-zero solutions, in order to drive the highest levels of environmental stewardship as set out under the Paris Climate Goals.

The use of green hydrogen and green hydrogen-based fuels is among the most significant ways that industries can eliminate carbon emissions, and drive energy efficiency, behavioral change and electrification, according to the International Energy Agency.

## ***Graduate Project at MIT Uses OpticStudio to Validate Optical Design for Laser Powder Bed Fusion***

29 September 2022

Powerful simulations and an interactive lens and materials catalog yield a novel, commercially relevant machine for 3D metal printing

Laser powder bed fusion (L-PBF) is a form of metal additive manufacturing that uses energy from a laser to melt thin layers of powder to facilitate 3D metal printing. The precise use of L-PBF builds on laser welding fundamentals like managing the impact of gas and plume dynamics on weld depth and quality. For this reason, it's important for the designers of L-PBF thermographies to examine and understand the complexities of what happens when a laser interacts with a bed of metal powder.

"Even though L-PBF is a commonly-used metal 3D printing process these days and it's grown a lot in the past decade, it still has many issues holding it back," said David Griggs, a mechanical engineer who worked with L-PBF technologies as part of his master's degree thesis project at Massachusetts Institute of Technology (MIT). "As a result, there's currently a lot of research on refining the L-PBF process and figuring out how to optimize this or that parameter."

Griggs addressed issues around these existing limitations by designing a new system at MIT that optimizes the three key laser tower parameters—power, scanning speed, and spot size—such that the system can output customized laser fiber synchronously in a user-specified direction, as plotted on a traditional X-Y axis. Because the laser component itself would be a standard commercial product, Griggs primarily worked on validating the two key pieces that would optimize the laser's capabilities: the collimator and the f-theta refocusing lens.

To validate these two key pieces, Griggs used OpticStudio to simulate conditions that would impact the new system, saving time and gaining a high degree of precision in the process. Because MIT wanted to select stock parts for both the collimator and the f-theta lens, he also used the extensive lens and materials catalogs built into OpticStudio to determine the right combination of lenses that would yield the optimal result.

"OpticStudio told me exact values I could use in my validation," said Griggs. "Using OpticStudio, I could see all of the expected spot sizes at every X-and-Y coordinate, which was much more useful than relying on my own theoretical calculations. OpticStudio guided me through the entire process of refining

the design, catching a few errors I had made, and ending up with a final system that I could be confident behaved the same way as a manufactured system."

## ***Hymer designs next generation camper with Siemens Xcelerator***

29 September 2022

Siemens Digital Industries Software announced today that Hymer, a global leader in recreational vehicles, has adopted the Siemens Xcelerator portfolio of software and services to develop VisionVenture, a convention smashing recreational vehicle using the comprehensive digital twin.

From a category defining design and additively manufactured body parts to the temperature-regulating, energy-efficient body work that reduces the surface temperature of the vehicle, VisionVenture encapsulates the company's pioneering spirit and innovation by breaking new ground in design for sustainability and innovative use of materials, in a rapidly growing and competitive industry.

Hymer's reinvention of how it develops its products by taking advantage of the Siemens Xcelerator portfolio, a comprehensive digital twin approach combined with state-of-the-art immersive VR technology, has led to significant benefits across the group. Along with the 80% reduction in physical prototypes and the almost immediate availability of consolidated design data for verification, variant derivation time has been reduced by a further 65%.

Hymer's engineers supported the design of the VisionVenture by weaving a digital thread along the entire product design process using NX™ software, Solid Edge® software, Simcenter™ software and Teamcenter® software from the Siemens Xcelerator portfolio every step of the way.

## ***In New Drive for Growth, UK Grocer Asda Selects Dassault Systèmes' Planning and Optimization Solutions to Transform its Transport Operations***

27 September 2022

Dassault Systèmes announced that Asda, the third-largest grocer in the U.K., has selected Dassault Systèmes' solutions to transform its in-house transport operations. Asda can leverage powerful planning and optimization capabilities that improve efficiency and sustainability, and strengthen its ability to offer high quality and convenient services to more than 18 million customers per week.

Asda will deploy the "Perfect Logistics" industry solution experience, which leverages DELMIA Quintiq applications and is based on the 3DEXPERIENCE platform, across the U.K. and Ireland to integrate and optimize the flow of goods between its suppliers, distribution centers and stores. In one virtual planning environment, Asda can rely on supply chain data, logistics resources and insights to implement optimal delivery strategies, efficiently use resources, and centralize the planning process of its transport logistics services. The visibility and the control provided by DELMIA Quintiq applications enable Asda to deliver on key performance indicators such as reduced transportation costs and improved operational efficiencies and on-time delivery.

"Perfect Logistics" including DELMIA Quintiq will also help Asda boost its environmental performance in an industry where sustainability has become a business imperative. Asda gains the flexibility and agility to optimize transportation routes, which reduces empty mileage, makes the most of return journeys and maximizes capacity utilization. These improvements are key contributors for lowering emissions and fuel consumption and achieving more sustainable business operations.

Asda's logistics services encompass 39 operations in different regions processing billions of cases and millions of deliveries to supermarkets, supercenters, superstores, and pick-up and drop-off points each

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year. In 2015, Asda diversified its services by introducing its “toyou” parcel solution, which offers consumers the convenience of returning or collecting purchases from third-party online retailers at more than 600 Asda stores. For Asda, deploying industry-leading technologies to seamlessly integrate and optimize these and other innovative services as part of its end-to-end logistics operations is key for excelling at cost competitiveness and customer service in a demanding marketplace.

“We needed a flexible solution that meets the needs of our business. Through the use of Dassault Systèmes’ logistics planner, we will be able to move goods quickly, efficiently and cost effectively across our supply ecosystem. Everyone managing our transport operations can see exactly the same picture, and our primary and secondary distribution can work in sync across planning and execution. We can receive instant feedback on our decisions,” said Paul Anastasiou, Senior Director – Parcel Services, Logistics Technology and Operating Models, Asda. “Dassault Systèmes’ experience in the retail sector, software capabilities, and the expertise of its implementation partner The Logic Factory, are key elements of our transformation journey.”

“Retailers must be able to set themselves apart from cost-cutting competition while taking driver skills, CO2 emissions and transportation costs into consideration. This requires sustainable business operations that optimize energy, materials and human resources,” said Philippe Loeb, Vice President, Consumer Packaged Goods & Retail Industry, Dassault Systèmes. “Dassault Systèmes provides the only solutions capable of handling such complexity. It delivers unmatched functionalities that transform retail logistics from a cost center to an efficient, more sustainable value driver.”

## ***KAUST selects HPE to build the Middle East’s most powerful supercomputer***

26 September 2022

Hewlett Packard Enterprise announced that King Abdullah University of Science and Technology (KAUST) selected HPE to build its next-generation supercomputer, Shaheen III, to deliver state-of-the-art supercomputing and artificial intelligence (AI) capabilities for advancing research in fields such as food, water, energy and the environment.

Supercomputing capacity has become increasingly vital to global innovation, industry competitiveness and economic growth. From accelerating vaccine discovery to fight a pandemic, advancing clean energy systems to increase sustainability, to enabling new possibilities in AI, supercomputing is a core technology to solving the world’s most challenging scientific and engineering problems.

### **Shaheen III ushers in a new era of scientific discovery and AI innovation for the Middle East**

Shaheen III, set to be 20 times faster than KAUST’s existing system, will be the most powerful supercomputer in the Middle East to address critical areas that have a societal and environmental impact. Built by HPE, the world’s leading supercomputer provider, the new Shaheen III system will revolutionize KAUST’s ability to process vast amounts of data at immense speed and scale, enabling its users to unlock discoveries that it could not have before, and realize new potentials for AI.

Shaheen III will be built using the HPE Cray EX supercomputer, a next-generation platform architected to support unprecedented performance and scale, including achieving exaflop speed. The HPE Cray EX supercomputer, which delivers advanced end-to-end capabilities in compute and accelerated compute, networking, storage and software solutions, allows KAUST to apply significant computational power toward modeling and simulating scientific problems faster and with higher accuracy.

HPE’s supercomputing capabilities also enable AI-at-scale by combining its massive computing power and specialized capabilities that are required to build machine learning models and train large amounts of data. With the Shaheen III design, HPE is further fueling KAUST’s AI-at-scale mission by

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integrating the HPE Machine Learning Development Environment, an optimized software stack for model training and development. By combining the machine learning software platform with key supercomputing technologies, KAUST's users can easily develop and train AI models faster, and bigger, for increased accuracy.

“At HPE, our purpose is to advance the way people live and work, and we are honored to help fuel Saudi Arabia's Vision 2030 for a new era of innovation by empowering KAUST with a state-of-the-art supercomputer,” said Antonio Neri, president and CEO of Hewlett Packard Enterprise. “Shaheen III will significantly accelerate research at KAUST by applying world-leading supercomputing and AI-at-scale capabilities to increase accuracy in analyses and solve complex scientific questions.”

“The new HPE Cray EX system will allow us to conduct research on a larger scale, resulting in significant scientific, economic and social advances,” said Dr. Tony F. Chan, President of KAUST. “In line with Vision 2030, we strive to meet the ever-increasing demands of our active and solutions-driven faculty, and also those of external partners, for faster and more efficient computing resources. KAUST supercomputing resources are used by more than half of our faculty, students, postdoctoral students and researchers, and researchers from more than 20 external organizations in the Kingdom.”

## **Accelerating research and developments in energy, environment, healthcare and bioengineering**

Shaheen III will be fully operational in 2023. The new supercomputer will process unique data sets in focus areas such as clean combustion, Red Sea ecosystems, climate modelling and the Arabian tectonic plate, while delivering analyses, models and simulations at a superior level of resolution. KAUST's users plan to target a range of applications, including the design of new materials for low-cost/high-performing solar photovoltaics; new industrial catalytic processes to increase energy efficiency while reducing waste; personalized preventative health care and the discovery of new medicines; increased hydrocarbon recovery with reduced environmental and economic costs; and the use of genetic, genomic and epigenetic approaches to enhance plants' drought tolerance and resiliency in desert environments.

Equipped with more than 2,800 NVIDIA Grace Hopper Superchips, tightly coupled CPU/GPU accelerators, the Shaheen supercomputer will enable the development of novel and scalable techniques in core AI fields such as deep learning, reinforcement learning, federated learning, visual computing, and natural language processing, and also provide unique opportunities to further scale traditional HPC workloads. This GPU-accelerated partition will also facilitate the broad use of applied AI in science and engineering applications, including computational chemistry, biology and material science, which previously were unfeasible given the large-scale nature of data sets produced and used at KAUST. Applications will increase in coming years as Shaheen III is expected to deliver 100 petaflop/s of performance and outstanding AI modelling capabilities.

“A supercomputer like Shaheen III is a universal scientific instrument employed by scientists and engineers in every discipline for tasks such as simulation, analysis of experimental data, learning from observed data, and efficient data storage and retrieval,” said KAUST Extreme Research Computing Center (ECRC) Director Dr. David Keyes, professor of applied mathematics and computational science. “It is the ultimate scientific ‘watering hole’ at which researchers of different disciplines exchange techniques and software tools. An advance in one field spurs advances in several.”

As one of the world's leading supercomputing centers, KAUST is building on the success of its first supercomputer, Shaheen I, launched in 2009, followed by Shaheen II, a Cray-based supercomputer 25 times faster than its predecessor at 5.54 petaflop/s.

“Shaheen II has delivered 6.8 billion computing core-hours to more than 1,467 users, resulting in data used in about 1,030 publications to date,” said KAUST Research Computing Core Labs Director Dr.

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Jysoo Lee. “Shaheen III will ensure that the KAUST community will maintain its edge as a world-class university in computational sciences.”

“AMD is committed to the advancement of scientific research and development in high-performance computing, driving the technology behind computational modeling, simulation and AI,” said Forrest Norrod, Senior Vice President and General Manager, Data Center Solutions Business Group, AMD. “Powered by AMD EPYC processors, Shaheen III will enable new discoveries that will have regional and global impacts across climate, clean energy and tectonic plate modeling, all made possible by the collaboration between KAUST scientists and HPE.”

“As we push deeper into the era of Exascale AI, supercomputers like Shaheen III are increasingly central to transforming society,” said Ian Buck, vice president of hyperscale and HPC at NVIDIA. “Enabled by our deep collaboration with KAUST and HPE, and the adoption of our new Grace Hopper Superchip, Shaheen III will be a key scientific instrument that offers unrivaled performance to help tackle the world’s toughest challenges.”

## ***Leading gas compression company Kodiak Gas Services selects IFS Cloud to keep uptime high***

29 September 2022

IFS, the global cloud enterprise software company, today announced that Kodiak Gas Services, LLC (Kodiak), the largest privately-owned contract compression company in the U.S., has selected IFS Cloud™ to enhance its cross-functional business operations. This selection will allow Kodiak to receive a clear view of all assets, in turn helping it to keep uptime high. IFS Platinum Partner, Astra Canyon, will implement the solution and roll it out across Kodiak’s entire U.S. operations, encompassing 16 sites and 1,157 users.

Opting for IFS Cloud will allow Kodiak to consolidate its three main systems of record into one single system, with core ERP, service management and asset management functions. The delivery of the solution will enable Kodiak to support multiple functional areas and business processes, including sales, supply chain, procurement, human capital management (HCM) and finance.

By leveraging IFS Cloud, Kodiak will significantly enhance its procurement and inventory management processes, which are both critical in a market where 24/7 uptime availability is a key differentiator and the inability to deliver a part on time risks the loss of business. In short, the organization will have a consolidated end-to-end view of its business through a solution that will provide actionable metrics in real time.

“From the get-go we were impressed with IFS’ focus on outcomes and a mutually beneficial partnership,” said Pedro Buhigas, Chief Information Officer, Kodiak. “We are confident that by partnering with them, we are not just buying technology, we are entering into a long-term business relationship that will strengthen our operations and provide transparency into all assets.”

Cindy Jaudon, President, IFS North America, said: “Kodiak is a dynamic, fast-growing business. It is focused on embracing new technology to drive efficiencies across its operations and capitalize on market opportunities. We are very proud that they have chosen to partner with us on this journey. We are looking forward to working with them to deliver the business value and outcomes they are looking for and to enable them to provide memorable Moments of Service™ to their customers.”

Astra Canyon is now under way with its implementation of IFS Cloud for Kodiak, with a projected go-live date of early 2023.

## ***PROS Now Powers Nearly 40% of Top Air Cargo Market Players***

27 September 2022

PROS<sup>®</sup>, the CFO's best-kept secret for profitable growth, isn't such a secret in the air cargo market. With the addition of Qatar Airways Cargo, the world's largest international air cargo provider, PROS is a market-leader, powering nearly 40% of the top air cargo providers. Together, PROS Smart Price Optimization and Management and PROS Smart Configure Price Quote deliver impactful results to air cargo customers—up to 3% profit improvement and up to 5% win rate improvement—by optimizing prices across online platforms in real-time, providing enhanced customer experiences and driving profitable growth.

PROS market expertise is an advantage for air cargo companies as the industry continues to face disruption with volatile and often unpredictable supply and demand patterns across the global network. The industry is undergoing a digital disruption, with online platform providers making digital distribution and self-service essential to compete. With PROS, air cargo companies can optimize all sides of the margin equation, embedding real-time strategies, market data, performance insights and leveraging PROS AI – all seamlessly integrated into the sales ecosystem to deliver real-time, omnichannel quotes designed to maximize profits and provide a competitive advantage.

PROS proven track record and in-house air cargo expertise were critical deciding factors when it came to Qatar Airways Cargo selecting PROS for its continued growth and digital transformation strategy. With seamless integration in Qatar Airways Cargo's sales platform, PROS real-time pricing and smart CPQ solutions will enable Qatar's sales teams to quickly configure specific and custom curated offers for every customer while allowing customers to self-serve and book online, powering more profitable bookings.

### **Air Cargo: Flying High with PROS**

With the addition of Qatar Airways Cargo, PROS powers three of the top six international cargo carriers. Across the industry, PROS has helped customers drive double digit growth and address demand spikes within supply and capacity constraints by quickly delivering unmatched, real-time price optimization and omnichannel quote-to-cash capabilities.

“The air cargo industry, while experiencing a period of great disruption, is also poised for continued, long-term growth,” said PROS Vice President of B2B Sales for EMEA and APAC, Sheida Ashrafi. “Companies that embrace AI-powered real-time pricing and quoting capabilities and seamlessly deliver them online, will find themselves meeting the needs of their customers and capturing increased market-share as they grow profitability and outperform their competitors.”

PROS air cargo solutions are designed to handle the complexity of the industry and scale as companies see continued growth. With deep industry knowledge, the PROS team is experienced in integrating with complex air cargo system landscapes, enabling PROS to become the single source of pricing and selling excellence in the industry.

## ***Schneider Electric and AVEVA partner with Shell to accelerate net-zero transition in hard-to-abate sectors***

26 September 2022

Schneider Electric, the leader in the digital transformation of energy management and automation, AVEVA, a global leader in industrial software, and Shell, the global energy and petrochemicals company, have formed a global strategic alliance to support their respective and wider

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sectors' transition to net-zero agendas. The organizations will explore opportunities to co-develop integrated end-to-end energy solutions designed to power the decarbonization of their customers in hard-to-abate industries, such as cement.

Energy-intensive and heavy industry companies need trusted partners and solutions that can reduce greenhouse gas (GHG) emissions, increase the effectiveness of their operational processes, and deliver greater energy efficiency, security, resilience, availability, and reliability. The partnership agreement between Schneider Electric, AVEVA, and Shell brings customers an enhanced set of integrated solutions with a range, scale, and scope that is greater than each could offer alone.

The combination of their respective complementary consultative, technical, digital, and energy-specific capabilities—from high level process modelling, simulation, and advice to site-specific decarbonization solutions—will have an immediate impact on industries.

Focusing on the cement sector initially, the newly formed alliance aims to reduce emissions by up to 15% for customers in a typical deployment. The approach will focus on enabling a more efficient transition to renewable energy sources. More accurate process analytics, improvements to dynamic tactical simulation, and digital integration for furnace and mill grinding process improvements will drive a reduction in resource use.

AVEVA and Schneider Electric will contribute integrated digital engineering, operational process, and energy optimization technologies, combined with deep sustainability expertise, to the alliance. These capabilities will support the design, construction, and more efficient operation of increasingly carbon neutral facilities. They will also help to create production plans that optimize the value chain and reduce GHG emissions.

Shell brings to the partnership end-to-end sustainable energy supply solutions, global project engineering capabilities, a large renewable energy generation and asset portfolio, as well as a broad range of sectoral sustainability solutions.

Harry Brekelmans, projects & technology director at Shell, said: “Both our companies have strong ambitions to achieve net zero emissions. This partnership represents another significant step forward. Both Shell and Schneider Electric intend to explore potential opportunities across digital solutions, technology, sustainability consulting, and energy supply capabilities to develop end to end integrated energy solutions to decarbonize our own businesses and wider sectors”.

Jean-Pascal Tricoire, Chairman and CEO, Schneider Electric, said, “Partnerships are vital for decarbonization. They provide benefits to all parties and accelerate the global energy transition. The combined capabilities and expertise of Shell, AVEVA, and Schneider Electric will result in innovative sustainability solutions critical to the journey to net-zero.”

“We are pleased once again to extend our relationship with Shell,” said Peter Herweck, CEO, AVEVA. “We have already seen the benefits in terms of safety, reliability, and efficiency with many previous successful engagements, and we will continue to deliver our vision of a responsible use of the world’s resources.”

## ***ULTA Beauty taking steps to modernize its workforce with OpenText Solutions***

26 September 2022

OpenText™ and ULTA Beauty, the largest beauty retailer in the U.S., are set to discuss digitization of the workforce at the world’s largest information management conference, OpenText World 2022. As a loyal customer and one of the world’s most successful beauty retailers, OpenText is thrilled to have

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ULTA Beauty take part in an opening Keynote with CEO & CTO Mark J. Barrenechea at this year's conference.

Over the course of the past two and a half years, many businesses have been affected greatly by the immediate need to digitize the workforce and shift priorities as the pandemic evolved. Many Human Resource (HR) departments were forced to reinvent their processes and create consistency among their organization. ULTA Beauty was one of those businesses, and in doing so, chose to employ OpenText Extended ECM for SAP SuccessFactors to provide standardization of documents, simplify legal and taxation processes, minimize outsourcing, and allow the HR team to focus on issues that matter.

At OpenText World 2022, Mark J. Barrenechea and Mike Savage, Vice President, Total Rewards and Human Resources Information Systems (HRIS) at ULTA Beauty, will take the stage to discuss how technology has helped businesses evolve into the digital era. With the pandemic forcing the hand of many organizations, ULTA Beauty took the steps necessary to ensure its digital transition was fluid, efficient, effective, and most importantly, fit into the overall ULTA Beauty roadmap.

“With Human Resources playing a critical role in helping organizations navigate change, ULTA Beauty chose to employ OpenText to facilitate a seamless transition into digitization and automation of internal processes,” said Mike Savage, Vice President, Total Rewards and Human Resources Information Systems (HRIS) at ULTA Beauty. “Leveraging OpenText and its solutions makes it possible for ULTA Beauty to streamline our many internal processes, simplifying, reinforcing and strengthening our overall operations.”

“OpenText is a leader in automating and digitizing HR information processes to support the workforce of the future. Working with ULTA Beauty has allowed the company to begin to change the way it connects and engages with its associates,” said Mark J. Barrenechea, CEO & CTO at OpenText. “We are thrilled to provide ULTA Beauty with a streamlined HR experience that assists in storage, uploading and access of all HR content and employee records, all while ensuring information is all stored securely in the cloud.”

## ***Yinger Adopts Centric PLM™ to Turbocharge Brand Presence***

27 September 2022

Yinger Fashion Group (Yinger), a major Chinese fashion leader, has selected Centric Software's Product Lifecycle Management (PLM) solution. Centric Software provides the most innovative enterprise solutions to plan, design, develop, source and sell products such as apparel, footwear, sporting goods, furniture, home décor, cosmetics, food & beverage and luxury to achieve strategic and operational digital transformation goals.

Since it was founded in 1996, Yinger has established six brands and built a large cross-industry diversified presence that integrates investment, R&D, creativity, marketing and services to the fashion industry. Yinger operates 15 regional sales branches and has more than 1,500 stores, with millions of customers across China.

Seeking to mitigate challenges such as economic headwinds and changing consumption patterns among younger generations, Yinger decided to invest in digital transformation by implementing Centric Fashion PLM.

Mr. Haitao Lu, Director of R&D at Yinger, says, “Under these circumstances, our long-term brand management strategy is to focus on refining internal management, improving collaboration and efficiency as well as the attainment, retention and development of target consumers.”

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As well as transforming Yinger’s product development information, Centric PLM will be integrated with existing enterprise solutions to gather relevant data and business intelligence across its internal product, supply chain and marketing systems. The project aims to boost operational efficiency and create a unified platform for product data and brand assets that will enable better decision-making with real-time and accurate data visualization.

“China’s consumer market changes fast,” said Mr. Lingjun Kong, Vice President of Yinger Fashion Group. “To respect consumer preferences, we need digitalization not only on the marketing aspect, but also on the product aspect. I think PLM will be the future standard configuration for apparel companies. I look forward to the successful launch of the Yinger PLM project and believe that Centric PLM will sharpen the competitive edge of Yinger’s products in the future.”

“We are delighted that Yinger has selected Centric PLM to power their digital transformation,” says Chris Groves, President and CEO of Centric Software. “Yinger has been a leader in the Chinese fashion market for many years, and we are looking forward to sharing our practical experience in the global fashion industry to contribute to Yinger’s continued success.”

## Product News

### ***3D Avatars in PLM: Centric Software and Alvanon Team Up for the Perfect Fit***

26 September 2022

Centric Software®, the Product Lifecycle Management (PLM) market leader, is proud to announce its collaboration with 3D avatar pioneer, Alvanon. Centric Software provides the most innovative enterprise solutions to plan, design, develop, source and sell products such as apparel, footwear, sporting goods, furniture, home décor, cosmetics, food & beverage and luxury to achieve strategic and operational digital transformation goals.

Centric Software has achieved an industry first with the integration of Alvanon’s 3D avatars into Centric PLM 3D workflows, for a true and complete end-to-end 3D process. Since 2001, Alvanon has used the latest technology and body shape data to enable the world’s leading apparel brands and retailers to improve garment fit, reflecting modern-day consumers.

“This ground-breaking collaboration with Alvanon will empower designers who use Centric PLM to access 3D avatars while working seamlessly in a familiar environment,” says Ron Watson, VP of Product at Centric Software. “Centric’s open API enables complex integrations with different technologies, streamlining processes while leveraging information from many sources so that users can work faster and more efficiently on a single platform rather than in multiple siloed applications.”

“At Alvanon, we believe that the 3D journey begins with the 3D avatar. Not just any avatar, but the fit standard that represents the brand’s target customers’ body shapes and sizes. We are pleased to team up with Centric PLM, to enhance their customers’ design capabilities, and the overall user experience. It’s via close collaboration with leading solution providers such as Centric PLM that we can deliver our range of virtual avatars and provide the fit accuracy that brands and retailers demand,” says Jason Wang, COO of Alvanon.

Centric PLM users can store, search and download Alvanon avatars (virtual AlvaForms) directly from Centric PLM. The integration between Centric, Alvanon, CLO3D and GoVise makes it possible to use Alvanon 3D avatars from Centric PLM libraries in Clo3D design.

“We are excited to take advantage of this feature,” says Karen Keane, Senior Manager IS – Product and

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Brand and Nancy Fedoruk, 3D Creative Lead at Arc'teryx. "It will allow us to house the Avatar library in Centric in a visual, searchable UI, that is also available in CLO3D. Avatar's are the true starting point for 3D Product Development – it's great to leverage the custom integration between our three partners, Centric PLM, Alvanon, and CLO 3D."

"We are delighted to announce our collaboration with Alvanon, who stands at the forefront of physical and virtual body shape visualization for the fashion industry," says Chris Groves, President and CEO of Centric Software. "Led by the needs of our customers, Centric pursues an 'open platform' strategy to integrate Centric PLM with other technologies that are used by the world's most innovative brands and retailers."

## ***Accenture Collaborates with Toshiba to Drive Green Transformation Across the Enterprise***

26 September 2022

Accenture is collaborating with Toshiba to provide consulting services to support green transformation (GX) efforts of the companies' clients. The collaboration will target industries with high greenhouse gas emissions and other organizations with urgent needs to improve energy efficiency.

Accenture will work with Toshiba to design and develop new sustainability services to drive emission reductions, in addition to strategies and solutions for carbon neutrality. Accenture will leverage its experience developing circular-economy business models and implementing sustainable supply chain processes, such as green procurement, as well as using cloud and other technology solutions from its partner ecosystem.

Toshiba brings with it a robust stable of existing carbon-neutrality technologies and services to the collaboration, including renewable energy systems, digital energy management systems, renewable energy-derived hydrogen solutions, and carbon dioxide capture and recovery facilities.

Toshiba is aiming to achieve carbon neutrality throughout its entire value chain by fiscal 2050. It has set a preliminary goal for fiscal 2030 of cutting greenhouse gas emissions by 70% from fiscal 2019 levels.

The combination of Toshiba's methods to reduce greenhouse gas emissions and Accenture's expertise and capabilities in sustainability will result in vendor-neutral offerings to support clients' emission reduction priorities. Accenture and Toshiba will evolve and refine their green transformation business model based on market trends and client needs.

Goro Yanase, representative executive officer, corporate senior executive vice president and COO at Toshiba said, "We are pleased to launch GX consulting services with Accenture. Toshiba Group provides technologies and services that contribute to solving social issues through our wide range of businesses, guided by our basic commitment — Committed to People, Committed to the Future. We are now building on this by developing capabilities and solutions that will contribute to the realization of carbon neutrality and a circular economy. Working with Accenture, we hope to further expand our business and contribute to the realization of a carbon neutral society by providing consulting services that support companies with proposals extending from planning through to the achievement of carbon neutrality goals."

Shinji Igarashi, senior managing director at Accenture in Japan, said, "Our work with Toshiba demonstrates our commitment to embed sustainability into everything we do. We are focused on helping companies create business value and also reduce their carbon footprint."

## ***ActCAD 2023 New Versions Released, Dt.25 Sep, 2022***

25 September 2022

Jytra Technology Solutions Pvt. Ltd. announces the release of ActCAD 2023 which uses latest IntelliCAD 11 Engine. ActCAD 2023 is available in three variants viz., Standard, Professional and Prime. ActCAD 2023 is a major release with several improvements and it uses ODA 22.12 dwg libraries. Below is a list of major improvements in this version:

- Introduced View Cube in Model Space
- Section planes option to visualize cross-sections of a 3D Model
- 3D walk throughs and flying through 3D Models
- Improved Visual Styles
- Improved features in Start Page
- Export of .obj files
- Import map files by connecting to PostgreSQL, MySQL, and WFS servers
- Moving and rotating entities easily using 3D Positioner command
- Displaying selected entities with a glowing highlight effect
- New Commands: Facet Model Pipe, Reverse, Break at Point, Map Service, Update Filled, Hatch Generate Bounday, Match Cell
- Improved excel data links, tables, geolocation setup, publish command, visualize ribbon tab
- Prime version supports, import of Autodesk® Revit® 2022 files, create and assign visibility states, select and work with .ifc and .rvt underlays using the Explorer, and use the Audit command to check for errors in .ifc files that are attached as underlays
- Uses IntelliCAD 11 Engine and ODA 2022.12 DWG libraries
- Uses Latest version v14 for PDF to CAD Conversion Tool
- Professional and Prime versions uses Spatial® Technology ACIS® version 2022
- The new API is highly compatible with AutoCAD® Object ARX
- Improved speed and performance
- Improved Licensing Technology

ActCAD 2023 works with Microsoft® Windows® 11, Windows 10, Windows 8, and Windows 7 64-bit versions.

## ***Announcing PlanHub Premier for General Contractors***

22 September 2022

We're proud to announce PlanHub Premier — now with even more benefits and features to help general contractors get the bid coverage they need, reduce risks to their business, and develop winning proposals.

Check out included Premier features:

**Stay on top of projects with your dashboard.**

Centralized dashboard provides an easy-to-use overview of projects in a single place.

**Control who can see — and bid — on your project with Private Planroom.**

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Private Planroom is an exciting new feature that allows you to do exactly what it sounds like — keep your project private to specific subcontractors and suppliers, allowing them to view the project and access related documents.

## **Find and fill gaps where you need coverage.**

Smart Coverage tracks bid coverage for your project by trade in your project detail dashboard.

## **Reduce risk and ensure your subs are fully qualified.**

Filter your Directory by subs who have specific qualifications before you invite them to bid or request Subcontractors bidding on your project to fill out their qualification section on their profile.

## **Compare and select your winning bids using Bid Leveling.**

Advanced Bid Analytics to help ensure you always select the best bid for your project.

With PlanHub, it's simple to request, receive, and select quality bids for the coverage you need, get a demo today to learn how you can reduce risks to your business, and create winning proposals.

## ***Aurigo Software launches Config+ to empower infrastructure and facility software users***

28 September 2022

Aurigo Software, North America's leading capital planning and construction management solution provider, announced the launch of Config+, a no-code, do-it-yourself advanced configuration engine, empowering end users to create, update, and deploy best practice business processes within the company's flagship platform, Masterworks. Config+ will dramatically cut down implementation and upgrade times, allowing customers to streamline the delivery of cloud-based business solutions for their capital programs.

Public agencies are constantly looking to deliver infrastructure and facility projects on time and on budget. The way each agency manages capital planning and construction is unique and business processes need to be configured according to the agency's specific local, regional, state, and federal requirements. Setting up the right workflows, approvals, and notifications can be time-consuming, resource-heavy, and slow down productivity. Until now, end users have required a high level of technical proficiency and training to complete certain workflow-related changes.

Balaji Sreenivasan, CEO and founder of Aurigo Software said, "As infrastructure and facilities investments increase over the next few years in the public sector, agencies will need to adapt quickly to changing regulatory, financial, and environmental conditions. With Config+, our customers' dependency on internal and external development resources for business requirements will reduce drastically, resulting in increased productivity and flexibility."

Config+ is an intuitive, yet powerful do-it-yourself configuration tool designed for business users with little or no coding experience. It allows authorized personnel to create and update forms, workflows, and reports with a user-friendly interface and drag-and-drop application components. Config+ also helps eliminate unnecessary documentation and multiple rounds of back-and-forth communication between end users and coders. The tool will allow even the most complex business logic and data validation rules to be updated quickly and easily without requiring technical expertise or coding knowledge.

"Config+ saves our customers time and resources," said Kevin Koenig, CTO of Aurigo Software. "Aurigo has partnered with technology leaders like Microsoft and AWS to deliver a faster, more intuitive experience for our end users."

Config+, a major enhancement to the Masterworks platform, is estimated to cut down turnaround time

on process changes by up to 50%. Masterworks is used by public agencies across the U.S. and Canada to plan, build, and operate their infrastructure and facilities. Aurigo's customers include departments of transportation in Nevada, Utah, and Massachusetts, as well as the cities of Houston, Las Vegas, and Seattle.

## ***BENTLEY RACEWAY AND CABLE MANAGEMENT CONNECTS TO ELEC CALC™, ELECTRICAL CALCULATION SOFTWARE***

30 September 2022

**Bentley Systems** and **Trace Software International** announce a partnership around their software solutions. **Bentley Raceway and Cable Management** and **elec calc™** are now connected for network and cable tray design and calculation.

The interconnection between the network and cable tray design tool and Trace Software's calculation solution enables not only the design of cable tray models, but also the integrated sizing of cables.

**Bentley Raceway and Cable Management** is a software solution to design and model complex raceway systems with 3D cable routing in one solution. The users can save time and reduce costs with an integrated application for raceway system layout, cable routing, and material estimating. **elec calc™** is a software package that enables the calculation of low voltage and high voltage electrical installations in real-time, complying with **various international standards**.

How does it work?

Once the single-line diagrams are designed into **elec calc™**, the cable lists can be exported to **Excel** and imported into **Bentley Raceway and Cable Management**. After the equipment placement, raceway development and cable routing have been processed, the real cable lengths are imported back into **elec calc™** to calculate and size the electrical installation accordingly. If needed, the process can be repeated.

## ***BETA CAE Systems announces the release of NEERE v1.5.0***

27 September 2022

### **About this Release**

BETA CAE Systems announces the release of NEERE v1.5.0.

This new release focuses towards making collaboration scenarios more efficient and direct by minimizing required user actions.

Follows a more detailed list of the new features and improvements.

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### **Release highlights**

Join actions are no longer required. The Sharing tab is now automatically transmitted in all scenarios.

Favorite rooms offer quicker access to the most frequently visited rooms.

A new screen share can be started immediately without having to stop a previous running one.

Further chat improvements have been implemented to include message delivery report, message deletion and options to turn all microphones and cameras off.

The DM options have been redesigned and further collaboration settings have been implemented in scenarios involving locally installed applications.

Desktop App: Stored configurations have been implemented for faster switching between frequently

visited NEERE instances.

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

## **Supported Web browsers**

Mozilla Firefox, version 68 or higher

Google Chrome/Chromium, version 72 or higher

Microsoft Edge, version 80 or higher

For details, refer to the "NEERE technical requirements and installation guide" document which resides within the NEERE download folder on our server.

## ***CareAR and Lenovo Collaborate to Advance Service Experience Management (SXM) for Next Generation Enterprise Extended Reality (XR) Solutions***

23 September 2022

CareAR™, a Xerox company and service experience management (SXM) market leader, and Lenovo™, a global technology leader, announced a global collaboration to deliver next generation 3D extended reality (XR) wearable solutions. **The combined technologies, resources, and partnerships from both companies will provide a best of breed immersive offering for deploying live remote assist interactions, self-guided 3D instructions, and intelligent insights for empowering employees and field technicians with contextual problem-solving capabilities.**

As part of the collaboration, CareAR has integrated its SXM platform with the Lenovo ThinkReality A3 smart glasses, a 5G-capable mobile head worn solution, to deliver multi-view and multi-party handsfree experiences for frontline workers to take advantage of the full potential of the SLAM method (simultaneous, localization and mapping), which makes it possible for augmented reality (AR) applications to recognize 3D objects and states with overlay augmentations.

Additionally, CareAR leverages its rich integration with ServiceNow, enabling field technicians wearing Lenovo smart glasses to connect with a remote expert from their ServiceNow workflow to see exactly what the technician is seeing and provide live visual assistance, with the ability to also have a side-by-side view of a digital twin with instructional content, as well as the ServiceNow service ticket, all in the technicians' field of view.

"Augmented and virtual reality have become imperative to creating safe and efficient field service management experiences for technicians and customers, speeding resolution times and reducing the need for expensive on-site visits," said Bulent Cinarkaya, GM, Field Service Management at ServiceNow. "The combination of CareAR's SXM platform, ServiceNow's leading workflow platform, and Lenovo's ThinkReality A3 smart glasses will allow enterprise customers and service technicians to expand the use of AR to "hands-free" use cases and optimize the ways enterprises train technicians, share knowledge, troubleshoot issues, and offer support."

**CareAR provides holistic support around service experience management, taking the traditional service model from reactive, to proactive, predictive, and self-solving.**

**"Our A3 smart glasses and ThinkReality platform pairs well with CareAR's platform to modernize the service experience by empowering field technicians and enterprise customers to access the insight needed to identify and repair issues quickly, reducing truck rolls and costly downtime."**

**Vishal Shah, GM of XR and Metaverse, Lenovo**

“The fast-paced nature of modern enterprises makes it challenging for field technicians to instantly gain access to customer sites, while customers expect and need vendors to resolve issues quickly,” said Vishal Shah, GM of XR and Metaverse, Lenovo. “Our A3 smart glasses and ThinkReality platform pairs well with CareAR’s platform to modernize the service experience by empowering field technicians and enterprise customers to access the insight needed to identify and repair issues quickly, reducing truck rolls and costly downtime.”

“CareAR, together with key partnerships such as Lenovo and ServiceNow, is transforming the service experience. Providing the power for a technician to put on a pair of Lenovo smart glasses and instantly be empowered with relevant knowledge and guidance served from CareAR to perform tasks beyond their skills or experience levels is nothing short of game changing,” said Sam Waicberg, CareAR’s President and Co-founder. “We are fundamentally augmenting the intelligence of workers across a variety of industries, driving higher performance levels and efficiencies for companies, ultimately resulting in greater savings, safety, and outcomes for customers.

## ***FARO Announces New 4D Construction Progress Management Solution Uniting Point Cloud Data and 360° Reality Capture***

27 September 2022

FARO® Technologies, Inc., a global leader in 4D digital reality insights, announced the 4D Construction Progress Management Solution, available on FARO’s Sphere SaaS platform. Sphere provides a central location for users to capture, view, share and analyze reality capture data allowing construction and operation professionals to benefit from faster site updates, easier virtual collaboration and more reliable progress insights. The 4D Construction Progress Management Solution is being presented today at Autodesk University, a major industry conference, and is expected to be released later this year.

The central component to the 4D Construction Progress Management Solution is the Sphere Viewer, which leverages a combination of computer vision, photogrammetry and artificial intelligence to create a comprehensive virtual jobsite. Developed by FARO’s 360° reality capture and point cloud technology experts, the new viewer analyzes point clouds and 360° photos in a unified environment, removing reality capture data silos and enabling faster analysis.

In addition to the Sphere Viewer, the solution includes: VideoMode, which uses 360° videos to enable faster and easier site documentation, ProgressAI, which uses artificial intelligence to detect and report site progress, as well as a brand-new Robotics API. The new API allows robotic manufacturers to integrate and directly import reality captured data from robots straight into the virtual jobsite. The first robot to leverage the Robotics API will be Spot from Boston Dynamics.

“The 4D Construction Progress Management Solution will deliver unmatched insights for our customers,” said Patrick Bohle, President, FARO Building Insights. “Our 4D solution brings together 3D models from different capture devices and different accuracy levels to ease navigation, increase user accessibility, and enable unprecedented progress management with the ability to report, verify and compare all angles of a project over time.”

“Having been involved in the development of the 4D Construction Progress Management Solution as a long-time engaged customer of HoloBuilder as well as FARO, I am thrilled to witness this combined solution come to fruition. For the first time, we can unite speed, accuracy and analytics capabilities of stationary and mobile 3D laser scanning as well as 360° photo and video,” added Will Plato, Senior

VDC Manager at Hensel Phelps, a leader in general contract and construction work for the planning, building and management of landmark buildings. “Gone are the days of static, standalone point cloud and 360° projects.”

## ***Introducing OpenBOM For PTC Creo***

23 September 2022

Oleg Shilovitsky announced the integration of OpenBOM with PTC Creo on the OpenBOM blog. Read about integrating your PTC Creo environment with OpenBOM here:

<https://www.openbom.com/blog/introducing-openbom-for-ptc-creo>

## ***New in SprutCAM 16.3 release***

28 September 2022

### **What's new**

1. Updated work with automatic lathes
2. Updated 2D Contour operation: stock for levels, turning off contours

### **New in working with automatic lathes in SprutCAM**

In this update, we have completed the programming of automatic lathes. All announced features are now included. To explain the basic principles of programming automatic lathes, the main developer recorded a video for 35 minutes.

We have added an example machine to the SprutCAM distribution. Now you can follow the same steps as in the video above.

### **New in 2D contour operation**

Added the ability to set stock for the upper and lower levels in the work order.

Added the ability to turn off or turn on the visibility of contours in a work order.

### **What we made easier**

- Added on/off turning mode in leads and retracts for milling machines with boring function
- Updated settings parameters for kinematic robot models in MachineMaker
- Updated settings parameters for kinematic machine models in MachineMaker
- Added Nachi robots to MachineMaker

### **What's fixed**

- Исправили ошибки в симуляции наплавки
- Исправили ошибки при создании заготовок
- Fixed errors when setup editing
- Fixed errors in saving a machine in MachineMaker
- Fixed bugs in chamfering operation
- Fixed bugs with visualization of rotation direction
- Fixed bugs with importing models from KOMPAS CAD program
- Fixed bugs with importing models from T-Flex
- Fixed bugs related with changing the coordinate system

# CIMdata PLM Industry Summary

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- Fixed bugs in 5D mesh operation
- Fixed bugs in SprutCAM and MachineMaker interface
- Fixed errors with verification by the NC code
- Fixed a bug in the operation Finish waterline optimized
- Fixed bugs when moving along arcs
- Fixed transition errors
- Fixed a bug when updating SprutCAM that caused a computer restart
- Fixed errors when importing 3dm files
- Fixed problems when saving projects in MachineMaker
- Fixed bugs with automatic sorting of operations by tool
- Fixed errors in solid modeling of thread milling
- Fixed a bug with the interruption of the calculation of the execution of the operation based on the text of the UE
- Fixed bugs in EDM operations

In total, 134 changes have been made to SprutCAM containing bug fixes and workflow improvements.

## Conclusion

Users with active technical support have already received notifications about the release of the new release and can upgrade.

If you have any issues, please, contact our support team.

## ***New Model-Based Workflows, Reality Capture and Extended File Support in Autodesk Construction Cloud Make BIM More Valuable to Construction Teams***

27 September 2022

Autodesk, Inc. announced a suite of new capabilities across Autodesk Construction Cloud, making it easier for construction project teams to use and maximize the value of BIM from the office to the field. The enhancements provide all stakeholders with immediate access to model data and information that's relevant, empowering team members to simplify workflows and make critical decisions faster. Also announced today are significant advancements to Schedule and Cost Management capabilities within Autodesk Build, the comprehensive construction management and field collaboration solution of Autodesk Construction Cloud, aimed at helping customers deliver construction projects on time and on budget.

"To stay in command of increasingly complex and demanding construction projects, we need to ensure teams can work from the latest information and quickly make informed decisions," said James Mize, VDC and digital delivery specialist at CRB Group. "The model is a great source of truth during design and planning, but data isn't easily transferred to construction teams during the build phase of a project. With the new model-based capabilities added to Autodesk Construction Cloud, we can use live Revit data to create assets, tie model properties directly to the assets, and view all the information we need in either 2D or 3D. We're now able to take full advantage of model data to save time across all projects, minimize miscommunication and make smarter business decisions."

**Model data made easier for every stakeholder with new Autodesk Construction Cloud releases**

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With the new advancements launched across Autodesk Construction Cloud today, construction teams can get immediate access to and work more easily with BIM data, empowering stakeholders to use model data to identify potential project impacts, operate more efficiently and make better decisions.

- **Model-Based Workflows in Assets** – Assets in Autodesk Build are now mapped and visualized in 3D using the latest design model, providing field teams with up-to-date asset tracking and equipment details. This simple automation helps to prevent errors associated with outdated model data and makes it easier to connect assets to RFIs, Submittals, Issues, Schedule, and other workflows.
- **Model Property Breakdown** – Massive design files can now be parsed out into more digestible portions by creating custom views of model properties that are relevant to that day's work. Now, customers can simply select or deselect elements including levels, property categories, rooms, disciplines, objects, or a custom property, to create a more readily and easily shareable view of the model. Model Property Breakdown will be available in Autodesk Build, Autodesk BIM Collaborate and Autodesk Docs.
- **Publish to the Field** – VDC teams in Autodesk BIM Collaborate can create and share ad hoc views and sign-off models with field stakeholders using a mobile device, all without leaving Autodesk BIM Collaborate. Paired with Model Property Breakdown, these tools remove manual steps, simplify model data for the field, and save time for the entire project. Publish to the Field is currently in open beta.
- **Extended File Support for Mobile** – Now customers can use their mobile app at the jobsite to navigate and interact with an expanded list of supported 2D and 3D design file types, including DWGs and 2D RVTs.
- **Reality Capture in Autodesk Construction Cloud** – Files from reality capture such as laser scans or photogrammetry can now be brought directly into Autodesk Construction Cloud, enabling VDC teams to record precise measurements, aggregate with other models, identify and resolve issues, take progress snapshots, and provide comprehensive closeout documentation. For example, using reality capture methods like laser scanning or photogrammetry, project teams can create and work with 3D models of existing structures, such as for new builds with existing facades or capturing existing conditions for infrastructure projects, all within Autodesk Construction Cloud.

"Design files are packed to the brim with essential data, but each project stakeholder needs something different from the model," said Ilai Rotbaein, senior director, research and development, Autodesk Construction Solutions. "The advancements we're announcing make it easier to access model data, removing unnecessary steps and ensuring the latest information is directly in the hands of those who need it, whether they're in the office, the trailer or out in the field. Autodesk is empowering our customers to truly connect design to construction and drive tight collaboration across the entire project lifecycle."

## **Autodesk Build continues gaining industry traction, consistently enhanced based on customer feedback**

In the 18 months since Autodesk Build was released, Autodesk Construction Cloud customers have created more than 50,000 projects in the construction management and field collaboration solution – up from 8,000 in July 2021. There have also been more than 300 improvements made to Autodesk Construction Cloud products in the last year to bolster performance, simplify workflow configurations, and make data access easier.

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Additional enhancements now available in Autodesk Build include new workflows for project management and financials, such as:

- **Performance Tracking in Cost Management** – With the new Performance Tracking toolset in Cost Management, self-performing contractors can analyze productivity and cost data in ‘near’ real-time to gain clear visibility into the potential risk of schedule delays and cost overruns to enable accurate forecasting.
- **Schedule Compare and Version Control** – Robust version compare now allows users to visually compare up to five different versions of a schedule to quickly identify activity changes. New version control capabilities introduced today include a change history log and unique distribution lists for each schedule update.

## ***New suite of capabilities in Autodesk Construction Cloud make BIM more valuable to construction teams***

27 September 2022

Autodesk, Inc. announced a suite of new capabilities across Autodesk Construction Cloud, making it easier for construction project teams to use and maximize the value of BIM from the office to the field. The enhancements provide all stakeholders with immediate access to model data and information that’s relevant, empowering team members to simplify workflows and make critical decisions faster. Also announced today are significant advancements to Schedule and Cost Management capabilities within Autodesk Build, the comprehensive construction management and field collaboration solution of Autodesk Construction Cloud, aimed at helping customers deliver construction projects on time and on budget.

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## ***Plex Announces Enhanced QMS Solution Supporting Automotive Supplier Requirements for IATF 16949:2016***

28 September 2022

Plex Systems, a Rockwell Automation company and a leader in cloud-delivered smart manufacturing solutions, today announced compliance enhancements to its Quality Management System (QMS) solution, Plex QMS, to meet updated Ford Motor Company Customer-Specific Requirements for IATF 16949:2016.

Renowned for its extensive capabilities and closed loop quality process, Plex QMS follows a plan-do-check-act methodology to drive the full quality lifecycle, enabling manufacturers to deliver better margin and drive a culture of quality. The solution now also helps companies meet the newest IATF-16949 FMEA requirement, with support for families of FMEA, foundation FMEAs, and automated FMEA information flows from a Part FMEA to the Control Plan. The cloud based Plex QMS also ensures all users are accessing the same PFMEA version.

“Plex is proud that in as little as five weeks, automotive suppliers can start realizing the transformative benefits of our QMS solution,” said Anthony Murphy, Vice President, Product Management, Plex. “We’re focused on maintaining strong connections to the industry and regulatory bodies and actively engaging with customers to help deliver results-driven solutions that assist with meeting these new standards as well as reduce cost to comply.”

“The race to improve quality through digitalization is hitting critical mass as some automotive manufacturers are rising to the challenge and others lag behind,” said Reid Paquin, Research Director at IDC. “Suppliers utilizing Quality Management Solutions, like those available from Plex, offering real-time, repeatable, predictable quality can help these manufacturers by delivering superior components that reduce their overall risk exposure and support market share expansion.”

Plex solutions for automotive manufacturers will be on display at the AIAG Quality Summit on October 5-6, in Novi, MI. Additionally, Plex’s full suite of solutions including QMS and the FMEA enhancement will be demonstrated at the 31st annual Automation Fair®, November 14-17 in Chicago, IL.

## ***progeCAD 22.0.14 Free Update Released***

26 September 2022

**CADDIT announces the immediate availability of the 2022.0.14 patch update for all progeCAD 2022 license types.** This update is free for all up-to-date users of progeCAD Professional 2022 Single License (stand-alone), Portable Travel-USB and Network License types. It may be downloaded either through the progeCAD software update, or directly as a complete installation package from the CADDIT website. progeCAD is a general purpose AutoCAD-compatible 2D and 3D technical drawing software used by thousands of Australian businesses and government agencies.

This progeCAD update offers minor improvements in multiple functional areas, including Superhatch and Hatch island detection, Tables and Table Styles, ease of use and appearance issues. These include:

- Fixed crash selecting specific hatch
- Fixed zoom on entity in FIND command without "zoom after replace" option
- Margins set in Table Style are now loaded correctly in table creation menu
- Fixed EATTEDIT prompt messages
- Fixed open of drawing with bad constraints

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- Fixed behavior of prompt boxes. Added new variable PROMPTBOXES to enable/disable prompt boxes. Right click menu is now regulated only by the variable SHORTCUTMENU
- Now creating a new table style copies the base one successfully
- Fixed Table Styles preview
- Added "Match Cell" and "Field" buttons to Table Cell context ribbon
- Fixed prompt menu when command is not active
- Added "Alignment" button to the Table toolbar for the Classic workspaces
- Fixed crash using table with block in cell
- Fixed freeze searching closed boundary in a drawing
- Fixed SUPERHATCH with circle island in area
- Fixed SUPERHATCH with rectangular "hole" in area
- Added double click to edit block in table cell
- Fixed crash on edit table cell with block. Using "Format Locking" option
- Added "Block" button to "Insert" panel of "Table Cell" contextual ribbon
- Added TBB and TINSERT aliases of TABLEINSERTBLK command
- Fixed ARC command from Lisp
- Fixed contextual menu on mouse button down
- Removed display of options list when DYNMODE < 0
- Changed ZOOM level on FIND command, Implemented FINDZOOMSCALE variable to set scale zoom level (default 5.0)
- Improved drawing templates dropdown menu in Start Page. Now it will display a vertical scrollbar if the list of the templates is too long

## ***PROSTEP CREATES A LINK BETWEEN PTC ARENA AND JIRA***

29 September 2022

OpenPDM PLM integration platform has been used in hybrid cloud scenarios since version 9.0. In the future, PROSTEP will also offer it as an integration platform as a service (iPaaS). In close cooperation with Arena, which is part of PTC, the PLM consulting and software company is currently developing a cloud-enabled standard integration between the PLM solution Arena from PTC and the ALM application Jira from Atlassian. Both applications are cloud-native.

An increasing number of European manufacturers are discovering the cloud and want to use software as a service (SaaS) solutions as part of their digital transformation. PTC is providing European companies with support on their way to the cloud by hosting Arena PLM and quality management system (QMS) software locally in Germany and providing a German user interface. The company is working with PROSTEP's PLM experts to integrate the solution with other enterprise applications.

According to analysts, integrating cloud PLM and QMS systems with other enterprise applications is one of the biggest hurdles on the road to digital transformation.

PROSTEP has set out to remove this hurdle. "We have been systematically developing the software architecture of our OpenPDM PLM integration platform for several years with the aim of enabling its use in the cloud and providing the best possible support for the integration of different cloud and on-premises applications," says Peter Pfalzgraf, head of Partner Management at PROSTEP. "Our strategic goal is to offer the integrations as a service from the cloud in the future."

In a first step, PROSTEP is developing an OpenPDM-based standardized and configurable integration solution between the PLM and QMS solutions from cloud PLM pioneer Arena and the ALM solutions Jira from Atlassian. Arena has been part of PTC since the beginning of 2021. Jira is one of the leading

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application lifecycle management (ALM) solutions for planning, tracking and release management in the software development process.

The integration between Arena and Jira will have a predefined functional scope, which means that its deployment will require just a few configuration steps. It supports, for example, the synchronization of issues or error messages created in Jira with Arena. A corresponding ticket is then automatically created in Arena and assigned to employees for processing. If the issue changes in Jira, the corresponding ticket is updated in Arena.

The OpenPDM platform, which controls the synchronization process and synchronizes the data, is implemented in the AWS cloud infrastructure together with the two connectors. In the coming months, PROSTEP will be adding additional standard integrations to its iPaaS offering.

## ***Schneider Electric Launches New Revit Extension, Advanced Electrical Design™, Offering More Intelligent, Unified and Connected Workflows***

27 September 2022

Schneider Electric, the global leader in digital transformation of energy management and automation, unveiled Advanced Electrical Design™ for Autodesk® Revit® at the Autodesk University conference. Schneider Electric formed BIM Electrical Corp. as result of its strategic partnership with Autodesk, a global leader in design and make technology, to bring this advanced BIM-based electrical design solution that integrates directly with Revit, creating a more complete and robust BIM solution that connects teams, data, and workflows across the entire electrical and new energy landscape project lifecycle.

With 40% of energy in 2040 expected to come from renewable sources, electrical engineers require new digital tools to help boost operational efficiency and sustainability efforts. This solution provides not only well-established core design and analysis functionality, but also breakthrough functionality that simplifies electrical planning, design and analysis to meet customers' needs with a BIM-based, unified engineer-to-designer solution, focused on high performance and sustainable electrical distribution systems design.

“Our alliance leverages Schneider Electric’s global engineering and sustainability expertise to offer Advanced Electrical Design for Autodesk Revit, enabling electrical engineers to play a leading role in designing high performance buildings for Electricity 4.0 in the new energy landscape,” said Daniel Stonecipher, VP, Chief Product Officer eCAD at Schneider Electric. “Advanced Electrical Design for Revit is a prime example of how industry leaders can work together to provide greater value to each user and contribute to solve the energy challenge.”

“Together with Schneider Electric, we aim to empower electrical engineers to drive long-term digital transformation that results in more sustainable and energy efficient buildings,” said Nicolas Mangon, Vice President of AEC Industry Strategy at Autodesk. “Advanced Electrical Design for Revit extends the benefits of BIM to electrical engineers and designers, streamlining how they work and adding deep engineering capabilities in the BIM-based workflows. This new comprehensive and connected workflow improves execution, reduces project timelines, and controls costs.”

This all-in-one electrical design solution assists electrical engineers and designers in four key areas to help in their electrical planning process:

1. **Plan:** Layout power sources, equipment and loads of a project’s electrical system using the new drag-and-drop diagram with high-level calculations

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2. **Analyze:** Analyze the total demand loads of each subsection of an electrical system, including distributed energy system modelling, and save time with built in regional code-based calculation recommendations.
3. **Optimize:** Update across your energy design and ensure proper equipment sizing; data automatically update across diagram workplaces synchronizing your electrical plan
4. **Document:** Easily generate reports like load letters or cable schedule using automated real-time calculations

“As an electrical designer, I’m always identifying opportunities that will improve electrical workflows and leverage my time across all phases of a project. I’m proud to be meaningfully involved in the early stages and creation of the Advanced Electrical Design software for Autodesk Revit, as it’s already filling gaps in my day-to-day workflow and will be impactful to others in the industry,” said April Kane, Electrical Designer at Gresham Smith. “I am excited to be an early adopter of the advanced electrical software and help shape this for future releases for my industry peers while strengthening the relationship between Gresham Smith, Autodesk and Schneider Electric.”

The advanced BIM-based electrical design solution allows electrical engineers to boost project efficiency by getting a head start on planning and load analysis before a physical model is even provided. Customers can then utilize that same data during project design and analysis, saving time, reducing errors and lessening redundancies. This increase in project design efficiency and productivity is also key for the construction sector that is expected to expand in coming years.

"Autodesk brings its digital and software expertise while Schneider Electric brings its knowledge from the physical world, merging their respective leadership to deliver an advanced BIM-based solution that benefits any BIM professional looking to make informed decisions when accessing renewable sources of energy," added Marc Nezet, SVP Energy Management Software Transformation, Schneider Electric.

Together, Schneider Electric and Autodesk are paving a way forward, driving long-term digital transformation and advancing users’ Electricity 4.0 journeys. The Advanced Electrical Design for Revit solution will empower electrical engineers to design low voltage electrical systems more easily, a critical feature in coming years as we work towards a more sustainable future.

## ***Siemens automates 2.5D and 3D IC design-for-test with new Tessent Multi die solution***

26 September 2022

Siemens Digital Industries Software introduced the Tessent™ Multi-die software solution, which helps customers dramatically speed and simplify critical design-for-test (DFT) tasks for next-generation integrated circuits (ICs) based on 2.5D and 3D architectures.

As demand for smaller, more power efficient and higher performing ICs continues to challenge the global IC design community, next-generation devices increasingly feature complex 2.5D and 3D architectures that connect dies vertically (3D IC) or side-by-side (2.5D) so that they behave as a single device. However, these approaches can present significant challenges for IC test, since most legacy IC test approaches are based on conventional two-dimensional processes.

To address these challenges, Siemens today introduces Tessent Multi-die software -- the industry’s most comprehensive DFT automation solution for highly complex DFT tasks associated with 2.5D and 3D IC designs. The new solution works seamlessly with Siemens’ Tessent™ TestKompress™ Streaming Scan Network software and Tessent™ IJTAG software, which optimize DFT test resources for each block without concern for impacts to the rest of the design, thereby streamlining DFT planning and

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implementation for the 2.5D and 3D IC era. Using Tessent Multi-die software, IC design teams can rapidly generate IEEE 1838 compliant hardware featuring 2.5D and 3D IC architectures.

“IC design organizations are seeing dramatic spikes in IC test complexity due to the rapid adoption and deployment of designs featuring densely packed dies in 2.5D and 3D devices,” said Ankur Gupta, vice president and general manager of the Tessent business unit for Siemens Digital Industries Software. “With Siemens’ new Tessent Multi-die solution, our customers can be ready for the designs of tomorrow, while slashing test implementation effort and simultaneously optimizing manufacturing test cost today.”

In addition to supporting comprehensive test for 2.5D and 3D IC designs, the Tessent Multi-die solution can generate die-to-die interconnect patterns and enable package level test using the Boundary Scan Description Language (BSDL). Further, Tessent Multi-die supports integration of flexible parallel port (FPP) technology by leveraging the packetized data delivery capabilities of Siemens’ Tessent TestKompress Streaming Scan Network software. Introduced two years ago, Tessent TestKompress Streaming Scan Network decouples core-level DFT requirements from the chip-level test delivery resources. This enables a no-compromise, bottom-up DFT flow that can dramatically simplify DFT planning and implementation, while reducing test time up to 4X.

“As the limits of traditional 2D IC design approaches become increasingly clear over time, more design teams are leveraging the power, performance and form factor advantages that 2.5D and 3D IC architectures can deliver. But deploying these advanced schemes in new design starts without first establishing a DFT strategy that acknowledges the inherent challenges these architectures present can raise costs and undermine aggressive timelines,” said Laurie Balch, president and research director for Pedestal Research. “However, by evolving DFT technology to keep pace with the rapid adoption of multi-dimensional designs, EDA vendors can play a key role in further enabling global, mainstream adoption of 2.5D and 3D architectures.”

## ***Synopsys Advances Silicon Lifecycle Management to Accelerate Data Transport and Significantly Reduce Test Time***

27 September 2022

Enabling real-time analytics for silicon health monitoring of increasingly large, complex designs, Synopsys, Inc. announced an innovative streaming fabric technology that shortens both silicon data access and test time by up to 80% while also minimizing excessive power. Generated by Synopsys TestMAX® DFT design-for-test tool and part of Synopsys' cohesive silicon lifecycle management flow, the new streaming fabric is a unique on-chip network that quickly transports silicon data to and from multiple design blocks and multi-die systems, significantly reducing the time to efficiently test and analyze the overall health of the chip for anomalies and failures.

"Enfabrica is building leading-edge silicon at the heart of hyper-distributed compute systems, and we require state-of-the-art silicon lifecycle management technologies to meet our quality goals," said Rochan Sankar, CEO at Enfabrica. "Synopsys' new streaming fabric technology has demonstrated substantially reduced test time on our designs versus existing approaches. We're very pleased with the results and are counting on these gains in our silicon testing."

### **Lowering Test Costs Through Reduced Data Transport Time**

Ensuring silicon health and uptime requires constant access and analysis of chip or multi-die system data on parameters such as process, voltage and temperature. For large, advanced-node designs, engineering teams typically use a divide-and-conquer approach by incorporating data access into each design block,

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and then connecting the blocks to the chip-level pins. Traditional networks are rather rigid, requiring a significant amount of planning. By contrast, the new streaming fabric technology takes a plug-and-play approach, calling for minimal planning effort since it can be programmed to accommodate various block speeds and data interface sizes. To minimize the routing, the fabric supports simplified branching for blocks with small data interfaces. These capabilities ensure block-level data access methodologies are physical design-friendly, require minimal effort and provide the shortest amount of required access time, lowering test costs. Furthermore, the technology's simplified branching connections minimize the physical impact on designs, enabling engineering teams to quickly deploy the streaming fabric using the Synopsys Digital Design Family.

## **Enhancing Data Reliability Via Accurate Power Estimation**

Data, including test programs, applied to chips or multi-die systems in the field must not cause the silicon to utilize too much power, which could either damage the part or invalidate results. New power estimation technology incorporated in Synopsys TestMAX ATPG pattern generation solution more accurately determines power drawn at data application time versus prior methods by assigning results from Synopsys PrimePower RTL-to-signoff power analysis technology. As a result, power drop is mitigated, avoiding incorrect silicon data results and damage.

"Efficient, cost-effective silicon data access is a fundamental requirement to achieving reliable device operation during their lifecycles, which is essential for high uptime of mission-critical applications," said Amit Sanghani, senior vice president of the Synopsys Hardware Analytics and Test team. "Our new streaming fabric and more accurate power-estimation capabilities further strengthen our Silicon Lifecycle Management family of products, ensuring customers can meet these goals while achieving design and schedule targets."

## ***Tech Soft 3D Launches CEETRON Toolkits to Support Complete CAE Workflow***

28 September 2022

Tech Soft 3D, the leading provider of engineering software development toolkits, announces a new line of toolkits designed to fully support computer aided engineering (CAE) workflows. Comprising four components, the CEETRON suite of solutions enables software engineers to accelerate CAE application development at every stage of the process. The new toolkits bring together technology from Ceetron AS, Visual Kinematics (VKI) and Tech Soft 3D to provide the industry's first complete platform for pre-processing, solving, and post-processing of CAE data, giving customers such as ANSYS, Elise GmbH, DNV, SimScale and nTopology one strategic partner to work with for their CAE applications.

"Bringing together the technologies acquired in 2020 to create a complete suite of CAE toolkits that connects with HOOPS and Polygonica is not only very exciting for us, but is also in line with our mission to empower our customers to create the most sophisticated applications and products using powerful, integrated and easy-to-use component technologies," said Ron Fritz, CEO of Tech Soft 3D. "It has been especially rewarding to see the results of our successful acquisitions, not only from a product standpoint, but also to see our teams so well integrated and working towards the same goal. This is a milestone for our company, and we anticipate that our customers will be very happy with these new tools and the ability to relate to a single partner for all their CAE technology needs."

## **CAE Workflows are Unique**

Throughout a typical CAE workflow, each step requires specific technologies, where the use of market-hardened toolkits is highly beneficial. When looking at the setup stage, HOOPS Exchange is the market's best-in-class data access component, capable of bringing into play geometry from 30+ CAD

formats. In many cases, the design needs healing prior to meshing: Polygonica is the ideal component to prepare tessellations for CAE. The CEETRON toolkit line takes the relay at that point, with CEETRON Mesh yielding both 2D and 3D meshes adapted to simulation purposes. When it comes to the calculations themselves, the CEETRON Solve SDK is an extensive framework to formulate finite element equations, assemble them into a global system, and eventually solve them through high-performance parallel (SMP) linear algebra.

The workflow ends with the analysis and sharing of the solver's results analyzed by the expert eye of an engineer. With CEETRON Envision, Tech Soft 3D provides a palette of technologies to handle data extraction, display model generation, optimized rendering on desktop and native web, as well as data sharing and reporting.

## ***T-Systems launches management platform for e-charging infrastructure with Ambika***

28 September 2022

First complete package for rollout, maintenance, service, and billing with Ambika

Telekom accelerates e-mobility rollout: now more than ever it is important to install charging stations, as quickly and comprehensively as possible. With "Ambika", a digital all-rounder for easy rollout and operation of charging stations at supermarkets, airports or hotels is now available for the first time. The maintenance of the charging stations is also controlled via this new platform.

Cloud-based on ServiceNow platform

A simple payment and billing process via an app rounds off the complete offer. "Ambika" is cloud-based and compatible with various IT landscapes and platforms. It can be easily adapted to specific business requirements. In short, providing e-charging infrastructure has never been easier.

"With our complete solution "Ambika", we make it possible to achieve the goals of the mobility transition with a rapid roll-out and a true modern user experience. The basic prerequisite is a broad acceptance of e-mobility, among providers and users," says Dr. Andreas Greis, Head of T-Systems Digital Solutions. "And we are creating this with a modular solution concept, for the comprehensive management of the e-charging infrastructure."

One solution for all

"Ambika" offers start-up assistance for anyone who wants to set up, operate or use charging infrastructure. The solution is aimed at operators of charging stations, parking areas, vehicle manufacturers, real estate companies, energy suppliers, supermarkets, airports, hotels or the public sector. The complete package includes everything that is needed for the rollout of charging stations: Starting with the civil engineering work, the complete logistics, the installation of hardware and software to maintenance and troubleshooting after commissioning. Faults can be rectified quickly via remote monitoring. If necessary, service teams provide on-site support.

ServiceNow and Enio for best customer experience

Rollout and operation are controlled via the cloud platform from ServiceNow. The technology company offers a cloud computing platform with which companies can digitize, network and automate processes to generate seamless workflows. Ambika's business performance is displayed on a clearly laid out dashboard. Here users can find the latest information on contract management as well as cost overviews.

The customer portal is provided by ENIO. The e-mobility pioneer from Austria, in which Telekom holds a stake, distributes software for the infrastructure of electromobility throughout Europe. It offers services such as authentication, payment management or load and energy management to avoid

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expensive peak loads. Charging times can be pre-booked to avoid waiting times.

The communication between the charging stations for electric cars and the central management system “Ambika” is standardised: The OCPP (Open Charge Point Protocol) enables manufacturer-independent communication between electric car charging stations and various billing and management systems of charging infrastructures via an open application protocol.

“Ambika” enables networked and worry-free operation of the charging points through an intelligent service management concept. The Telekom subsidiary Comfort Charge is already using the solution at around 160 charging points in Germany.