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CIMdata News

Cadence Invests in CFD Algorithmic Advances Capitalizing on Ubiquitous HPC – a CIMdata Commentary

21 March 2023

Key takeaways

- Advances in high fidelity system simulation software and computing hardware have improved useability and performance, enabling engineers to bring simulation earlier into product development, especially decisions based on complicated, coupled physics, e.g., turbulent flows of gases and fluids affecting lifting forces, drag, thermodynamics, and structural loads.
- Simulation software primarily uses physics-based solutions to perform structural, thermal, and fluid-flow analyses and requires domain experts and historically expensive computers to get useful solutions. Often, empirical data drives matching algorithms to refine and validate models. This landscape is changing thanks to algorithmic refinements using mathematical formulations and ubiquitous computing.
- Ease of access, along with GPU and CPU acceleration within high performance computing, enable engineering simulations to be performed faster and earlier. These are computing technologies that may well expand to digital certification of products using simulation.
- High-order solver advances and methodologies being researched and implemented at Cadence are improving the accuracy of turbulence simulation results. Complicated equations like Navier-Stokes, once considered impracticable to solve, are now being solved with expanding levels of accuracy using these simulation advances.

Digital systems improve product robustness engineering by allowing designers to see more physical interactions across requirements and candidate solutions before a product is produced. Digital transformation leverages advanced multi-physics systems modeling and simulation software capabilities. Faster and cheaper computer hardware, known as high performance computing (HPC), allows simulations which took days to now be done in minutes. By using more high-fidelity simulations earlier, companies improve development processes to reduce physical prototype dependence. This shortens time to market and, in many cases, improves product quality. Competitive pressures are driving companies to broaden their use of simulation software. Yet there are still phenomena at the boundaries of product performance for which simulation does not yield accurate results. These situations require physical testing, especially for regulatory and safety certification.

Cadence is expanding its System Design and Analysis portfolio to address state-of-the-art computational fluid dynamics (CFD). This transformation results in the ability to make better decisions, leading to better products, improved product launches, more satisfied customers, and better business performance. Cross-disciplinary teams working collaboratively while using

physics, but when evaluated across meshes with hundreds of millions of nodes, they have been unreasonable to solve, until now.

Cadence’s Simulation Strategy to Push Digital Engineering Advances

Cadence is a leader in electronic design automation (EDA) where integrated circuit (IC) manufacturing processes drive what circuit geometries are allowed. Cadence’s tools have helped assure the continued realization of Moore’s Law. In fact, their EDA toolset is a major player in the advances of ICs inside HPC centers. Heat management in the chip, board, rack, and server rooms are critical factors as HPC capacities have grown. Now Cadence is investing in computationally intensive solvers for fluid dynamics of turbulent flows.

An inflection point is happening in CFD. Cadence’s acquisitions of Numeca, Pointwise, and Cascade Technologies are focused on improving algorithms to solve fundamental equations of complicated fluids behavior. By improving simulation at the difficult boundary conditions (e.g., turbulence driven noise and performance losses), Cadence is exploring and finding new algorithms and computing methodologies for solving the Navier-Stokes equations, the proper mathematical model of fluid dynamics.

For example, with visualization and faster equation solving for airframes, product performance predictions are more accurate because they better predict energy losses, in this case aerodynamic drag, which is directly related to airflow turbulence around a wing and fuselage. These predictions affect aircraft range and fuel storage needs. Another example is human centric: better understanding vibrations and noises which annoy the crew and passengers. Using simulations of the flow field and how noise and vibrations propagate, engineers can consider design alternatives.

Figure 2 summarizes Cadence’s capabilities, all of which contribute to shortening time to key product decisions. By using the appropriate accuracy for each decision being made, Cadence is accelerating engineering workflows. Being able to see results in a day instead of weeks or months improves collaboration and understanding among engineering teams.

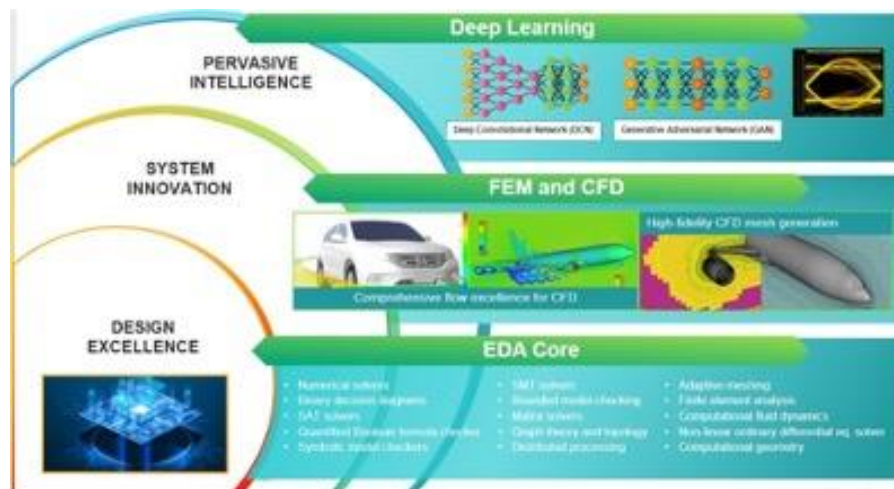


Figure 2—Cadence’s Solutions including CFD capabilities (Courtesy Cadence)

Addressing the Edges of the Flight Envelope at Boeing

Leading companies, like Boeing Commercial Aircraft, are embracing this fundamental change in simulation capability brought about by advanced methods and ubiquitous HPC. Figure 3 shows an image resulting from accurate computation of the wing’s lift at high angles of attack, which is where the turbulent flow becomes separated from the wing leading to reduced lift. This is an example of perfecting the predictive abilities of simulation at the edges of the system’s performance, accounting for transient phenomena as well as the steady state. Results from this simulation matter when predicting or confirming that a future aircraft can meet performance, safety, and even noise regulations of suburban airports.

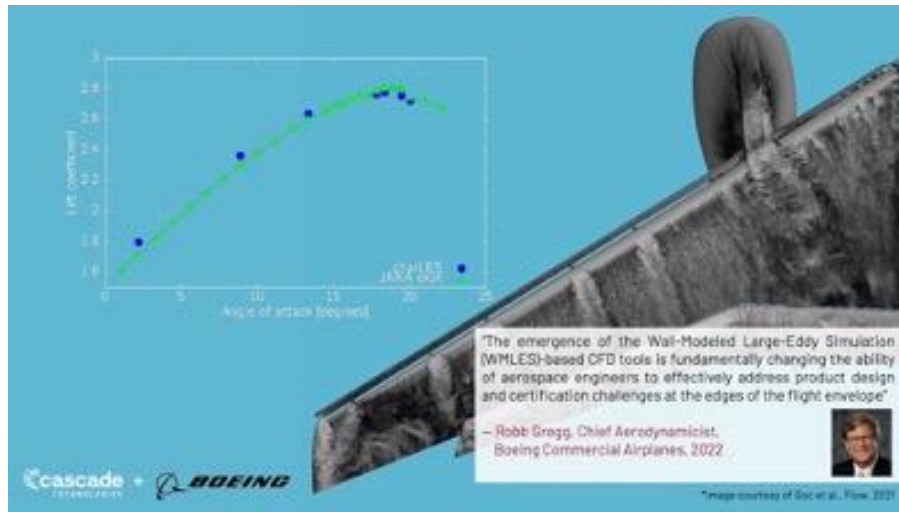


Figure 3—Boeing Experience with Cascade Technologies
 (Courtesy Cadence)

Concluding Remarks

Ubiquitous high-performance computing continues to change engineering processes when performing more and more simulations. Numerically challenging equations can now be solved in time to make design tradeoffs, rather than relying only on best practices and/or physical evaluations. Applying HPC to complex physics contributes to improving the understanding of how turbulent flows affect performance (range, durability, noise, heat management) and will improve product designs.

The powerful CFD simulation capabilities from Cadence allow companies to better understand turbulent flows, both of liquids and gases, without waiting on expensive physical prototypes and wind tunnel testing. Of course, validation studies will be performed to improve the trust in the simulations. But once baselined, turbulent flow CFD simulations provide an investigation capability in hours instead of months. Cadence is no longer just a leading provider of electronic design automation tools where simulations are focused on electrical and thermodynamics aspects of the IC chips with their circuit board. Their advanced CFD simulation enables investigations, pioneered on aircraft, automobiles, and marine vessels, can now be extended to full electronic systems like servers, their racks, and even airflow in buildings hosting server farms.

Cadence acquisitions of Numeca, Pointwise, and Cascade Technologies is broadening its CFD capabilities and completes another piece of the simulation framework for model-based enterprises. Comprehensive, efficient CFD simulation for turbulent flows will be a competitive discriminator. CIMdata believes that companies using Cadence's advanced CFD solutions will be able to support competitive continuous model-based engineering practices.

Q&A from "The Promise & Reality of the Digital Thread - Results of Industry Research" Webinar

22 March 2023

Written by [James Roche](#)



I would like to thank those who took the time to attend my recent Webinar. You can find more information on the session [here](#). While I answered quite a few questions during the session, we ran out of time. In the post below, I endeavor to answer the remaining questions. If you have further questions, do not hesitate to contact me

at: j.roche@CIMdata.com. We will also explore the topic of the Digital Thread more in our upcoming PLM Road Map conference.

Jim

Ontologies (data models) can help to promote the Authoritative Source of Truth by increasing tools interoperability to enable the Digital Thread full capability.

Data architecture and data governance are key prerequisites for enabling a digital thread strategy. As explained in the presentation, the digital web is an architectural view that lays out the various product structures (i.e., data categories) that are within scope and the connections between them. What are the data elements and attributes within each of these data categories? These data elements are often found in multiple systems. Which system is the master? And who is the owner of that data element? These are questions answered by data governance, and these questions must be answered to have an authoritative source of truth.

Is Digital Thread an application for plant design?

Absolutely, yes. Systems engineering and digital thread principles apply to a wide range of systems. The subject system may be an end product, such as an airplane or an automobile. Or a manufacturing plant. Or a maintenance facility. Or . . .

Is automation a key concept needed to make the digital thread work?

In CIMdata's view, automation is the key characteristic of a digital thread. Defining and maintaining linkages between multiple representations of a product has been and, to a large extent, still is a manual process. But now, with recent advances in commercial PLM solutions, the digital thread, with automated linkages and traceability, has become a practical possibility.

What are some examples of the "standards" that need to be defined for digital thread/web?

This is an excellent question. The AD PAG Digital Twin/Digital Thread project team is currently working on their Phase 4 position paper which is a comparative analysis of industry standards. It will be released within the next few months.

You need to include the Logistics/ PS BOM.

Totally agree.

So, what explains the big difference between “Actual” and “Desired” usage? Could it be the culture of change? Or the resistance to the culture of change?

Our research supports your suggested explanation. “Complexity of organizational impact and cultural resistance” was the second highest-rated inhibitor to formulating and executing a digital thread strategy. Nearly 75% of respondents rated this as either a major inhibitor or the most significant inhibitor.

Tier 3 will be critical to connecting the digital threads for improved analysis, M&S that will affect the digital twin.

Totally agree.

What has the adoption of Digital Thread been in the Energy, Utilities, and Chemicals Industries?

Sorry to say, we do not know. As mentioned in the presentation, the survey was open to all industries but promoted most heavily in A&D. As a result, 57% of responses were from A&D, 13% from Automotive, and only a few responses from Industrial Equipment and Utilities. Not enough to provide industry-specific insights. CIMdata’s direct client experience leads us to believe that digital thread investment in the named industries is substantial.

How are Intellectual Property Rights protected?

That is an excellent question. IP protection has been a major issue for years with the extension and automation of collaboration across the value chain of customer-to-OEM-to-partners and suppliers. Digital thread implies even greater levels of automation and access to data across the value chain participants. IP protection will require greater levels of data governance, where authority and ownership are unambiguously defined and enforced, with security attributes assigned at a very granular level.

A fully realized digital thread requires processes and integration of data, not just a “mapping” of data or requirements. Has there been any study on the results of either converting to new software and iterating upon discovered connections vs. attempting to anticipate a future state in advance and then building to that design?

We are unaware of any study, but we know people are doing it. Companies that seriously pursue an enterprise architecture management philosophy do both top-level definition of a desired future state and bottom-up documentation of the current state, emphasizing the current state more. Once the current state is documented, they define a target state, which is a pragmatic reach from the current state toward the desired future state.

Great presentation, Jim...I still see that Lifecycle BOM Mgt, Requirements Mgt and Change Mgt are still not implemented at these A&D companies you have interviewed. These concepts have

been drilled into those companies for at least 25 years! Why is it that the implementation is still not complete at these companies?

Partly because, until recently, the technology has not been up to the job. And now, these companies find themselves saddled with extremely complex and deeply embedded compromise legacy solutions.

Lack of standards....Can CIMdata, the A&D PAG, and solution providers get together and develop standards for interfaces and interoperability?

Interoperability standards are the subject of one of the A&D PLM Action Group's project work streams. We are in early days with this one, but hopeful. Stay tuned. For the project teams work to date take a look at <https://www.cimdata.com/en/aerospace-and-defense/publications/standards>.

How do you differentiate or relate the terms "PLM" and "Digital Thread?"

We consider Digital Thread to be at the core of PLM. PLM is broader in that it encompasses all aspects of the creation and consumption of product-related data. Digital Thread refers to the automation of linking multiple representations of a product; each tuned to the needs of various creators and consumers along the lifecycle.

What are the most common areas of digital thread and digital twin convergence?

This is a good question, and people have divergent views on the topic. At the most basic level, the concept of "twin" implies two renderings of a system that are related to each other. The association between these two renderings, including relationships between elements and attributes of each, is enabled by a digital thread.

How about applicability to process industries like Oil & Gas and EPCs?

Digital thread applies to any complex system. It definitely would apply to process industries' manufacturing, storage, and distribution facilities, i.e., systems.

Assume complete ignorance on my part. Would a reasonable analogy of digital web and digital thread be a map (digital web) and the route taken (thread)?

Analogies of analogies are difficult to discuss. I would offer another way to look at a digital web and digital threads. In the digital web diagram I showed in my presentation, the ellipses are product structures or data categories, and the lines between them are cables or bundles of threads. The threads connect to specific product data elements within one of the product structures. Within the other product structure, each of those threads connects to a data element that is related to a data element in the first structure.

What would be a good way to approach this initiative? Will it be based on the individual use cases (pieces)? Is there any framework /platform approach that can be implemented and use cases dynamically enabled as needed at different points in time?

Yes, use cases are the pieces or building blocks. For planning and program execution, use cases can and should be organized into groupings in a way similar to an enterprise process

decomposition. This will be very helpful in defining a solution architecture that rationalizes existing and planned systems and platform technologies.

Hi Jim, Thanks for a great presentation. My question is related to Slide 48: Could you please name some players in Tier 2 and Tier 3?

Examples of Tier 2: Integration bus - Oracle Service Bus, Prostep Open PDM; Data lake - Microsoft Azure, AWS Lake Formation. Examples of Tier 3: Data linkage traceability - Jama Connect; Low code - eCube, Mendix, ThingWorx Navigate.”

How are Tier 2 and Tier 3 differentiated? Could you please provide more information on the approach of Tier 3 compared to Tier 2a.

Tier 2 technologies are packaged as a service or utility. Tier 3 technologies are packaged as a specialty application or language for building data linkages.

Acquisitions

Accenture to Acquire Industrial AI Company Flutura

21 March 2023

Accenture has agreed to acquire industrial artificial intelligence (AI) company Flutura, headquartered in Bangalore, India. Flutura will strengthen Accenture’s industrial AI services to increase the performance of plants, refineries, and supply chains while also enabling clients to accomplish their net zero goals faster. Accenture plans to bring Flutura’s capabilities to clients in the energy, chemicals, metals, mining, and pharmaceutical industries. Terms of this deal were not disclosed.

Flutura’s approximately 110 professionals specialize in industrial data science services for manufacturers and other asset-intensive companies. Its AI platform provides self-service solutions for advanced analytics. The solutions help process, asset management and reliability engineering teams assess, predict, and improve the asset performance, reliability, throughput and energy efficiency outcomes of production and manufacturing facilities. Industrial engineers and data scientists can also quickly develop digital models of industrial assets on Flutura’s AI platform, which processes data from disparate IT and operations technology systems.

Senthil Ramani, senior managing director and Accenture Applied Intelligence lead for Growth Markets, said: “Flutura democratizes AI for engineers, enabling manufacturing and other asset-intensive companies with the carbon intelligence to reduce emissions, energy consumption and lost output due to unplanned downtime of industrial assets. This acquisition will power industrial AI-led transformation for our clients globally and particularly in Australia, South-East Asia, Japan, Africa, India, Latin America and the Middle East.”

Krishnan Raman, chief executive officer at Flutura, added: “Our AI platform enables engineers to respond with agility to everchanging market and operating conditions. We look forward to scaling this as part of Accenture and helping more industrial clients achieve high-value outcomes in their production operations.”

Companies need strong AI capabilities to build a digital core and become more successful, according to research Accenture presented at the 2023 World Economic Forum in Davos. Another Accenture study found that most companies are not very AI-mature and have barely scratched the surface of the technology's potential.

With Flutura, Accenture continues to build its data and AI capabilities for clients. Last year, it acquired data science company ALBERT in Japan. Other recent AI acquisitions include Analytics8 in Australia; Sentelis in France; Bridgei2i and Byte Prophecy in India; Pragsis Bidoop in Spain; Mudano in the UK; and Clarity Insights, End-to-End Analytics and Core Compete in the US.

Completion of the acquisition is subject to customary closing conditions.

Applied Intuition Acquires the SceneBox Platform to Strengthen Solutions for Machine Learning Data Operations

21 March 2023

We are excited to announce that Applied Intuition has acquired SceneBox, a data management and operations platform built specifically for machine learning (ML). The core team of Caliber Data Labs, the creator of SceneBox, will join the Applied team.

The SceneBox platform enables engineers to train better, more accurate ML models with a data-centric approach. To successfully train production-grade ML models, teams rely heavily on high-quality datasets. When working with enormous unstructured data, finding the right datasets can be difficult, time-consuming, and costly. SceneBox lets engineers explore, curate, and compare datasets rapidly, diagnose problems, and orchestrate complex data operations. The platform offers a rich web interface, extensive APIs, and advanced features such as embedding-based search.

"We are thrilled to welcome Yaser and the SceneBox team to Applied," said Qasar Younis, Co-Founder and CEO of Applied Intuition. "When we learned of Yaser's vision and our complementary product strategies, we immediately wanted to join forces. The SceneBox team brings a wealth of knowledge and experience in ML and data ops that will help strengthen our offerings. We look forward to working together and better serving our customers."

"We are proud to be a part of the Applied team and the company's mission to accelerate the world's adoption of safe and intelligent machines," said Yaser Khalighi, Founder and CEO of Caliber Data Labs. "Autonomy is a data problem. I am confident that our joint expertise will allow customers to spend less time wrangling data and more time building better ML models."

Bentley Systems Announces Strategic Agreement with Worldsensing

22 March 2023

Bentley Systems, Incorporated, the *infrastructure engineering software* company, announced it has entered into a non-exclusive commercial agreement to strategically accelerate the adoption of Infrastructure IoT, further unlocking value for infrastructure designers, constructors, and owner-operators in their use of infrastructure digital twins. To this end, Worldsensing is

acquiring from Bentley sensemetrics' *Thread* connectivity device business to expand its hardware portfolio offerings. Bentley also becomes the lead investor in Worldsensing's Series D capital raise.

Worldsensing's acquisition of the Thread connectivity device business will offer new options to its customers where adaptive sensor integrations or active sensor management are a key requirement. Thread offers broadband sensor connectivity to uniquely connect dynamic, high-power, or high-speed sensors and stream sensor data to the cloud for analysis. Thread is a fully autonomous sensor connectivity device with optional integrated 4G/LTE cellular modem, wireless mesh networking, and battery pack in a weather resistant enclosure. Each broadband device also serves as a gateway for wireless smart sensors. Combined with Worldsensing's existing market-leading offerings, Thread will be a driver for new growth opportunities. Worldsensing will become a preferred sensor connectivity partner to Bentley and Bentley will become a preferred IoT software partner to Worldsensing offering mutual users a best-in-class fully integrated end-to-end sensor management solution.

"We are thrilled to enter into this agreement with Bentley Systems," said Ignasi Vilajosana, CEO of Worldsensing. "The acquisition of sensemetrics' Thread connectivity device business will expand our portfolio and allow us to provide more options to our customers. We are pleased to become a preferred sensor connectivity partner for Bentley's *iTwin IoT* digital twin cloud services, confirming our position as the reference connectivity platform for mining, construction, rail, and infrastructure monitoring."

"We are excited to partner with Worldsensing and believe that this strategic agreement will bring significant benefits to our respective user bases," said Justin Schmidt, Vice President, corporate development with Bentley Systems. "We are confident that the combination of Worldsensing's expertise in IoT solutions and our leadership in infrastructure digital twin software will create a powerful offering for the market."

Connecting AEC customer data today and tomorrow - Autodesk Acquires UNIFI

21 March 2023

Connecting our customers' tools, processes, and people is critical for helping them to get more value out of their Building Information Modeling (BIM) data. This not only helps realize better ways of working; it also produces better outcomes for business and the built environment.

BIM is the foundation of digital transformation in the architecture, engineering, and construction (AEC) industry. That's why we're so intently focused on building an AEC cloud information model that makes project data available to the right people at the right time with insights that deliver competitive advantage.

But as we strive toward fulfilling our industry cloud vision, we're also doing everything we can to meet the demands of our building design customers here and now. That's why I'm so excited to share that Autodesk has signed a definitive agreement to acquire UNIFI, an essential cloud software solution for organizing, accessing, and managing content in Revit, Civil 3D, Plant 3D and other digital design tools. Currently, coordinating content across multiple projects is often a manual process and might even be a full-time job. With the digital asset management

capabilities of UNIFI, our customers will be able to find, search, and load BIM content faster, anytime, and anywhere.

When the acquisition is completed, existing UNIFI customers will retain full product access and support as we work on integration. I'm equally excited about what this acquisition means for Autodesk customers in the near future. UNIFI will add value to our current offerings and enable customers across the globe to get more value out of their BIM data. Being able to better manage their project assets is an important step in digital transformation. Peering ahead, UNIFI's underlying technology will provide a key AEC data capability that will transform the way our customers work by connecting their data and providing the insights they need at every phase of the project lifecycle.

With this addition, we'll help our customers win both today and tomorrow.

Autodesk's acquisition of UNIFI has not been completed; the completion of the acquisition is uncertain and is subject to various closing conditions. Subject to the timely completion or waiver of the applicable closing conditions, Autodesk expects the acquisition to close either during Autodesk's first quarter of Fiscal Year 2024, ending April 30, 2023, or during Autodesk's second quarter of Fiscal Year 2024, ending July 31, 2023. The foregoing descriptions of the contemplated effects of the acquisition are subject to the acquisition's completion and Autodesk's ability to successfully integrate UNIFI in all respects.

Hewlett Packard Enterprise to acquire OpsRamp, advancing hybrid cloud leadership and expanding HPE GreenLake into IT Operations Management

20 March 2023

Hewlett Packard Enterprise announced that it has entered into a definitive agreement to acquire OpsRamp, an IT operations management (ITOM) company that monitors, observes, automates and manages IT infrastructure, cloud resources, workloads and applications for hybrid and multi-cloud environments, including the leading hyperscalers. Gartner estimates ITOM to be an approximately \$39 billion¹ market.

Integrating OpsRamp's hybrid digital operations management solution with the HPE GreenLake edge-to-cloud platform – and supporting it with HPE services – will reduce the operational complexity of multi-vendor and multi-cloud IT environments that are in the public cloud, colocations, and on-premises. OpsRamp's technology – which delivers discovery, monitoring, automation, and event resolution with artificial intelligence for IT operations (AIOps) – provides end-to-end visibility, observability, and control across hybrid and multi-cloud IT environments. These capabilities span multi-vendor computing, networking, and storage, along with cloud resources, containers, virtual machines, and applications. According to IDC, 64%² of enterprises use multiple cloud providers; the ability to manage the IT operations sprawl across heterogeneous cloud environments is becoming increasingly more important.

“Customers today are managing several different cloud environments, with different IT operational models and tools, which dramatically increases the cost and complexity of digital operations management,” said Fidelma Russo, Chief Technology Officer of Hewlett Packard

Enterprise. “The combination of OpsRamp and HPE will remove these barriers by providing customers with an integrated edge-to-cloud platform that can more effectively manage and transform multi-vendor and multi-cloud IT estates. This acquisition advances HPE hybrid cloud leadership and expands the reach of the HPE GreenLake platform into IT Operations Management.”

The HPE GreenLake edge-to-cloud platform – the foundation of the hybrid cloud experience

HPE GreenLake platform provides customers and partners with a unified hybrid cloud experience and easy access to cloud services. With the addition of OpsRamp’s services, new and existing HPE customers facing increasingly complex multi-vendor IT systems and workloads will be able to more efficiently manage IT investments and remediate incidents faster. Organizations benefit from one platform from which to automate, orchestrate, and operate their hybrid cloud estate.

The OpsRamp capabilities extend the HPE services portfolio – across Advisory, Operational and HPE GreenLake managed services – into delivering end-to-end support for hybrid and multi-cloud IT environments. With this offering, customers can more effectively manage their heterogeneous cloud environments, dramatically reduce their operating expenses and enhance the overall IT experience for users. Capabilities include the consolidation of multi-vendor tools; automating and streamlining manual processes with AIOps; and significantly improving incident remediation with monitoring and observability.

Headquartered in San Jose, California, OpsRamp was part of Hewlett Packard Pathfinder’s venture capital investment in 2020. OpsRamp delivers a hybrid digital operations management platform that supports thousands of customers worldwide to modernize and reduce the cost of their digital operations management.

“The integration of OpsRamp’s hybrid digital operations management solution with the HPE GreenLake platform will provide an unmatched offering for organizations seeking to innovate and thrive in a complex, multi-cloud world. Partners and the channel will also play a pivotal role to advance their as-a-service offerings, as enterprises look for a unified approach to better manage their operations from the edge to the cloud,” said Varma Kunaparaju, CEO of OpsRamp. “We look forward to leveraging the scale and reach of HPE’s global go-to-market engine to deliver our unique offering and are excited for this journey ahead as part of HPE.”

Today, HPE GreenLake supports more than 65,000 customers, powers more than two million connected devices and manages more than one exabyte of data with customers worldwide.

HPE portfolio integration and availability

The transaction is expected to close in the third quarter of the HPE 2023 fiscal year, subject to regulatory approvals and other customary closing conditions. OpsRamp’s technology will be integrated with HPE GreenLake platform, available standalone as-a-service, and embedded within HPE’s compute, storage, and networking solutions.

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20 March 2023

Hewlett Packard Enterprise announced that it has entered into a definitive agreement to acquire OpsRamp, an IT operations management (ITOM) company that monitors, observes, automates and manages IT infrastructure, cloud resources, workloads and applications for hybrid and multi-cloud environments, including the leading hyperscalers. Gartner estimates ITOM to be an approximately \$39 billion¹ market.

Integrating OpsRamp's hybrid digital operations management solution with the HPE GreenLake edge-to-cloud platform – and supporting it with HPE services – will reduce the operational complexity of multi-vendor and multi-cloud IT environments that are in the public cloud, colocations, and on-premises. OpsRamp's technology – which delivers discovery, monitoring, automation, and event resolution with artificial intelligence for IT operations (AIOps) – provides end-to-end visibility, observability, and control across hybrid and multi-cloud IT environments. These capabilities span multi-vendor computing, networking, and storage, along with cloud resources, containers, virtual machines, and applications. According to IDC, 64%² of enterprises use multiple cloud providers; the ability to manage the IT operations sprawl across heterogeneous cloud environments is becoming increasingly more important.

“Customers today are managing several different cloud environments, with different IT operational models and tools, which dramatically increases the cost and complexity of digital operations management,” said Fidelma Russo, Chief Technology Officer of Hewlett Packard Enterprise. “The combination of OpsRamp and HPE will remove these barriers by providing customers with an integrated edge-to-cloud platform that can more effectively manage and transform multi-vendor and multi-cloud IT estates. This acquisition advances HPE hybrid cloud leadership and expands the reach of the HPE GreenLake platform into IT Operations Management.”

The HPE GreenLake edge-to-cloud platform – the foundation of the hybrid cloud experience

HPE GreenLake platform provides customers and partners with a unified hybrid cloud experience and easy access to cloud services. With the addition of OpsRamp's services, new and existing HPE customers facing increasingly complex multi-vendor IT systems and workloads will be able to more efficiently manage IT investments and remediate incidents faster. Organizations benefit from one platform from which to automate, orchestrate, and operate their hybrid cloud estate.

The OpsRamp capabilities extend the HPE services portfolio – across Advisory, Operational and HPE GreenLake managed services – into delivering end-to-end support for hybrid and multi-cloud IT environments. With this offering, customers can more effectively manage their heterogeneous cloud environments, dramatically reduce their operating expenses and enhance the overall IT experience for users. Capabilities include the consolidation of multi-vendor tools; automating and streamlining manual processes with AIOps; and significantly improving incident remediation with monitoring and observability.

Headquartered in San Jose, California, OpsRamp was part of Hewlett Packard Pathfinder's venture capital investment in 2020. OpsRamp delivers a hybrid digital operations management platform that supports thousands of customers worldwide to modernize and reduce the cost of their digital operations management.

"The integration of OpsRamp's hybrid digital operations management solution with the HPE GreenLake platform will provide an unmatched offering for organizations seeking to innovate and thrive in a complex, multi-cloud world. Partners and the channel will also play a pivotal role to advance their as-a-service offerings, as enterprises look for a unified approach to better manage their operations from the edge to the cloud," said Varma Kunaparaju, CEO of OpsRamp. "We look forward to leveraging the scale and reach of HPE's global go-to-market engine to deliver our unique offering and are excited for this journey ahead as part of HPE."

Today, HPE GreenLake supports more than 65,000 customers, powers more than two million connected devices and manages more than one exabyte of data with customers worldwide.

HPE portfolio integration and availability

The transaction is expected to close in the third quarter of the HPE 2023 fiscal year, subject to regulatory approvals and other customary closing conditions. OpsRamp's technology will be integrated with HPE GreenLake platform, available standalone as-a-service, and embedded within HPE's compute, storage, and networking solutions.

Company News

Accenture and Adobe Unlock Content Supply Chain Value to Help Enterprise Brands Cut Costs, Increase Efficiencies and Drive Growth

21 March 2023

Accenture and Adobe are collaborating to help enterprise marketers unlock the value of their content supply chains. The companies have worked together to develop new services based on Adobe's integrated Content Supply Chain technologies to help marketers more effectively create and deliver content that provides personalized customer experiences at scale.

Launched at Adobe Summit 2023, the new collaboration combines Accenture's experience in process improvement, change management and marketing with Adobe's comprehensive set of creative and experience applications and integrations to assess the content landscape and identify areas for optimization. By embracing a data-driven approach to uncover new efficiencies and ways of working, marketing organizations can lower costs while enhancing creativity and driving financial growth.

With rapidly evolving customer preferences and an exploding number of channels, markets and formats, marketers are increasingly challenged to efficiently produce personalized, dynamic and optimized content that brings their brands to life. According to Accenture research, 95% of global leaders believe their customers are changing faster than their businesses. Together, Accenture and Adobe can help marketers transform their approach to content to be more agile and remain relevant to customers.

“With the growing velocity of content production comes the need to identify the right content, format and channel for each asset to deliver engaging customer experiences that drive real business impact,” said Jim LaLonde, managing director and lead of the Accenture Adobe Business Group. “Leveraging Adobe technology and Accenture capabilities, our new services can bring together the people, tools and workstreams needed for clients to effectively plan, create, manage and deliver content across industries and around the globe.”

Justin Merickel, vice president, Business Development and Partners, Adobe, said, “Content fuels the digital economy and together Adobe and Accenture are equipping brands to build high-performing content supply chains that deliver the quantity and variety of effective, personalized content customers now expect. With a majority of brands expecting content demand to increase by at least five times over the next two years, Adobe and Accenture will help marketers transform the content supply chain to drive measurable business outcomes.”

To continue to evolve its own content strategy, Accenture is using the content supply chain services and technologies as part of a broader marketing transformation. The capability is providing new insights to align content to relevant campaigns and deliver them through the right channels, based on audience preferences.

“Content is key to our marketing strategy and our brand experience. Working with Adobe, we continue to increase our ability to efficiently and effectively produce the right content, for the right audiences, across the right channels,” said Jill Kramer, chief marketing and communications officer at Accenture. “What I love is that it also delivers a great experience for our creatives. Inspiring creatives with information and assets translates to better content reaching our clients. It’s a win-win.”

Adobe is also collaborating with Accenture to transform its own marketing operations. Accenture is helping Adobe’s B2B marketing organization scale the delivery of personalized marketing campaigns through the use of Adobe Real-Time CDP. By unifying data across multiple sources into actionable profiles for use across Adobe Experience Cloud applications, Adobe expects to amplify its impact and reduce operational complexity in delivering high value experiences to customers.

Accenture and Adobe are showcasing the content supply chain offering at Adobe Summit North America in Las Vegas on March 21-23, 2023 in the Accenture booth, #619. To learn more about content supply chain, attend the speaking session S708 “Content Velocity” featuring Accenture’s Penelope Prett, CIO; Emma McGuigan, senior managing director and lead of Enterprise & Industry Technologies; and Elise Cornille, managing director, Technology marketing, on March 22 at 2:30 p.m. PDT.

As a testament to its longstanding partnership with Adobe to create unrivalled experiences and accelerate growth for clients, Accenture was recognized at Adobe Summit as the Global Adobe 2023 Digital Experience Partner of the Year. Accenture was also named Adobe 2023 Digital Experience Partner of the Year in Americas, APAC, EMEA and Western Europe.

Bechtle obtains new highest VMware partner level Pinnacle

21 March 2023

The introduction of a new, global VMware partner programme has propelled Bechtle to the highest tier as a Pinnacle Partner. Germany's largest IT systems house is thus in a perfect position to provide customers with expert consultation on all VMware solutions and end-to-end support in realising multi-cloud scenarios. For Bechtle, the benefits of being a VMware Pinnacle Partner go hand in hand with strengthening its Software-as-a-Service (SaaS) business.

Bechtle has received the new top-tier partner level as a result of its long-standing, strategic partnership with VMware, extensive product expertise, consulting excellence, the high number of certified employees, verified proofs of concept, as well as the sustainable implementation and operation of VMware solutions for customers.

"VMware's revamped Partner Connect programme is an opportunity to promote our SaaS and subscription business and create more service-oriented growth opportunities," says Roland König, Managing Director, Bechtle Regensburg-Munich and responsible for the Competence Centre Cloud Transformation. "I'm happy that the new, flexible structure validates our approach of offering customers holistic support on their digitalisation journey."

"Pinnacle Partners are technology leaders in their industries and regions, with multiple programme validations and demonstrated sales and services success at scale. We're pleased to see Bechtle become a new Pinnacle Partner," says Petra Heinrich Liedtke, Vice President, Partner & Commercial Sales, EMEA at VMware. "Bechtle is already implementing our strategy today, supporting our mutual customers throughout the entire lifecycle. Long-term, reliable customer relationships are created on this basis, which show companies the way through the digital transformation of their business models."

Bechtle has been a VMware partner in Germany since 2003 and has held the highest partner status for 19 years. Bechtle also has in-depth knowledge of the US-based virtualisation and cloud specialist with headquarters in Palo Alto, California. These include five Master Services Competencies in Data Centre Virtualisation, Digital Workspace, Cloud Management and Automation, Network Virtualisation, and VMware Cloud on AWS.

Bechtle has earned numerous European and global awards from VMware, most recently the Partner Collaboration Award EMEA in 2022. The Bechtle Group is home to more than 300 certified VMware solutions consultants and technical specialists.

C3D Labs and CADEX Launch Technology Partnership in Data Conversion

21 March 2023

C3D Labs is expanding its network of technology partners through collaboration with CADEX, a developer of data conversion solutions. Today it is highly important to convert all the files created in different software products error-free and without any data loss. To provide a seamless and easy experience with various CAD formats, C3D Labs has entered into a technology partnership with CADEX.

The CADEX team has developed the CAD Exchanger integration module. It can import more than thirty CAD formats into the C3D kernel. Now the applications built on C3D Labs solutions can read many previously unavailable file formats. The CAD Exchanger module converts all the information without any losses. Depending on the file format, solid geometry and topology, mesh representation, product structure, color, transparency, textures, user-defined data, PMI, levels of detail (LOD), and other metadata can be imported. The number of supported formats (and versions) is still growing. Among them are native (CATIA V5, CATIA V6, all versions of SOLIDWORKS, NX from Siemens, Inventor, Creo, Solid Edge) CAD-neutral, (3D PDF, 3MF, IFC) and CAD kernel formats (Rhino, Open CASCADE).

For the software developer, the integration is seamless: one just browses for the file in a supported format and loads it into the C3D Converter component, a part of the C3D Toolkit software development tool. This feature saves time: no need to look for third-party plugins if the format is not directly supported by C3D Converter. Using the CAD Exchanger integration module to import files, we get a perfect original model.

Roman Lygin, CEO, CADEX:

"Through the collaboration of our two geometric modeling expert teams, with the new integration module the engineering software developers can effortlessly introduce the support for more than thirty CAD and BIM formats into their applications. The end users will be able to open files in many formats, including proprietary CAD files such as SOLIDWORKS, NX, CATIA, etc."

Oleg Zykov, CEO, C3D Labs:

"C3D Labs is always open to new technology partnerships to benefit our customers. We do have a converter, but it is focused on common data exchange formats and does not support native CAD files: it is just not our area of expertise. As to our colleagues at CADEX, this is their core business, and the integration of our components is quite logical".

ESI Group Reveals Bold Rebranding to Celebrate 50 Years and Marks the Beginning of a Next Chapter

23 March 2023

ESI Group, the world-renowned simulation and virtual prototyping software provider for the industry, announces a dynamic new brand identity to mark its 50th anniversary. The company's cultural transformation and revamped strategy to focus on core business and global operations have inspired this updated branding. The new look of ESI symbolizes the company's dedication to innovation and its mission to shape a better future for the industry.

ESI Group's 50-year journey has been marked by courage and transformation, and I am immensely proud of the progress we have made together since our founding in 1973. While our business has evolved over the years, our brand has not kept pace with these changes. Today's unveiling of our new brand identity signifies a renewed ESI, both internally and externally. Our commitment to inclusion, diversity, and global operations, combined with our new strategic vision, will drive our ongoing transformation as we work alongside our clients to create a safer, cleaner, and more productive world. This rebranding effort reflects our unwavering ambition to

innovate without compromise

Cristel de Rouvray

CEO, ESI Group

ESI: 50 Years of Leading the Way Towards a Safer, Cleaner, and More Productive Industry

For over five decades, ESI Group has been at the forefront of innovation, pioneering a virtual-first approach to solve the most complex and critical problems with simulation. With an unwavering passion for creating a better world, ESI has continuously taken bold steps forward. Their legacy of innovation dates back to 1985 with the first predictive simulated automotive crash test. Today, the Group continues to lead the way with product assembly reviews in the industrial metaverse. ESI Group is committed to shaping a better future by harnessing the power of technology to push boundaries and drive progress.

A new Branding and a Celebration Year

ESI Group's rebranding efforts encompass several exciting updates, including a **new brand statement**. The brand statement "Get it right" reflects what ESI stands for in the hearts and minds of all stakeholders, while the new brand purpose statement, "**ESI. Innovation without compromise**," highlights their commitment to innovation.

In terms of visual identity, **ESI has adopted bold and appealing brand colors that reflect its scientific approach**. The primary color, orange, represents brilliance, passion, and courage, making it both eye-catching and distinctive. Secondary colors have been carefully selected to convey technical precision, solidity, and friendliness. One color will be used per industry to make communication more accessible and understandable.

In addition to the new brand identity, **ESI Group is celebrating its 50 years of innovation, collaboration, and transformation with a year-long brand campaign**. The campaign will include a digital initiative that invites people to play and test their knowledge, as well as a new corporate video. Throughout the year, ESI will also organize various events to commemorate this milestone achievement.

ESI Group worked with branding company Just Global.

FlowForma Advances US Growth with Opening of New York Office

23 March 2023

FlowForma is accelerating growth in the US by taking up residency in the Enterprise Ireland New York office, with plans to open its own premises in the next two years. Staff in Sales and Customer Support will initially work out of the Park Avenue address, providing a permanent presence in one of the company's biggest markets.

Last year, around **30% of FlowForma revenue came from North America**, where demand for its Business Process Management and Automation tool has grown across every sector. The cloud-native software is proving particularly popular among US construction, energy, and healthcare companies that have struggled to digitalize their processes.

Olivia Bushe, FlowForma CEO, said, "*We have been regular visitors to the US since we launched in 2016, but the scale of growth in the last year has made the need for a permanent presence a*

necessity. This new business hub will help us to facilitate regular roundtable breakfast and lunch events to better support our community, existing clients, as well as procure new business. St. Patrick's Week was the perfect time for FlowForma to officially open the NYC office and unveil the next phase in an Irish success story."

Marisa Mannion of Enterprise Ireland, Senior Vice President, USA, said, *"FlowForma is the latest in a long line of Irish tech companies that has taken off in the States, shining a light on the close relationship between the two countries. We look forward to supporting Olivia and her team as they continue to grow their business in North America and the rest of the world."*

The adoption of an easy-to-use process automation tool reflects an appetite among US companies to drive efficiency in challenging times, according to Bushe, though she also sees indicators of a more bullish economy, particularly in a construction sector that is much more buoyant than its equivalent in the UK, FlowForma's second biggest market.

"Construction is a sweet spot for FlowForma," said Bushe, "because we eliminate manual, paper-based processes and address the challenges of maintaining good governance on temporary sites involving lots of suppliers. Despite the strong uptake in the construction sector, FlowForma services customers across all industries in the United States and beyond from healthcare and manufacturing to professional and financial services and more."

US customers across these sectors include Trident General Contracting, **Rimkus Consulting Group**, and **Dresser Natural Gas**.

This latest landmark comes off the back of significant investment raised by FlowForma stakeholders in 2022, with an office in New York City being an integral next step on the company's planned growth journey. The business continues to scale in size with new roles added across all areas of the company to meet growing demand in overseas markets such as the US and beyond.

HCLTech Joins The Intel Foundry Services Accelerator Design Services Alliance

17 March 2023

HCLTech, a leading global technology company, has joined the Intel Foundry Services (IFS) Accelerator Design Services Alliance. With this, HCLTech will be able to build advanced solutions for the global chip manufacturing ecosystem by leveraging its capabilities across digital, engineering and cloud.

The IFS Accelerator utilizes the best capabilities from industry leaders to help advance innovation using IFS' foundry manufacturing platform. It is an opportunity for HCLTech and IFS to collaborate and accelerate the adoption of IFS' cutting-edge technologies.

"At HCLTech, we are committed to helping our clients—including integrated device manufacturers (IDMs), fabless manufacturers, IP vendors, foundries and semi-equipment providers—with innovative, sustainable and agile solutions," said Vijay Guntur, President and Head of Engineering and R&D Services, HCLTech. "As a member of the IFS Accelerator Design Services Alliance, we look forward to collaborating with IFS to bring added advantages to chip

manufacturing. This collaboration brings together the in-depth domain expertise of HCLTech and IFS' advanced process technologies to ensure delivery of high-performance chips."

HCLTech's comprehensive engineering solutions, coupled with an extensive and geo-diverse design services team, are designed to meet its clients' complex and ever-changing needs. To be at the leading edge of technology, the company has made strategic, technology-led investments in industry-specific solutions and frameworks to address wide-ranging business objectives for customers. The areas of investment include HCLTech's factory automation solutions, simulator frameworks and home-grown solution accelerators for analytics, AR/VR, cybersecurity and scriptless test automation, among others.

"We are pleased to welcome HCLTech to the IFS Accelerator Design Services Alliance," said Rahul Goyal, Vice President of Product and Design Ecosystem Enablement at Intel. "Their expertise and capabilities will be a valuable addition to the Alliance as we work together to advance customer innovation on our foundry manufacturing platform."

Kiran Mazumdar-Shaw to retire from Infosys Board; D. Sundaram appointed Lead Independent Director

23 March 2023

Infosys, a global leader in next-generation digital services and consulting, announced the retirement of Kiran Mazumdar-Shaw as Independent Director of the Board, effective March 22, 2023, upon completion of her tenure.

The Board has appointed D. Sundaram as the Lead Independent Director of Company, effective March 23, 2023 based on the recommendation of Nomination and Remuneration Committee.

Kiran Mazumdar-Shaw was appointed to the Infosys Board as an Independent Director in 2014, and as Lead Independent Director in 2018. She also served as the Chairperson of the Nomination & Remuneration Committee and CSR Committee, and as a member of the Risk Management and ESG Committees of the Board.

The Board places on record its appreciation for Ms. Shaw's invaluable contribution, guidance, and strategic vision, that has helped the Company build and execute a resilient growth strategy.

Mr. Sundaram has been on the Board of Infosys since 2017. With his expertise and vast experience in finance and strategy, he has been a crucial catalyst for the Company to realize its vision for the future. Mr. Sundaram serves on the Audit Committee, Risk Management Committee, Stakeholders Relationship Committee, Nomination & Remuneration Committee and Cybersecurity Risk Sub-Committee.

On behalf of the Board, **Nandan Nilekani, Chairman, Infosys**, said, "We profusely thank Kiran for having been such an integral member of the Infosys family, providing valuable guidance and leadership to the Board over the years. I am personally very grateful to her as she has been a tremendous ally and amazing colleague on the Board, ever since I re-joined Infosys in August 2017. We also congratulate Sundaram on being appointed as Lead Independent Director and look forward to his continued insight and steadfast support as Infosys continues its growth and transformation journey."

Martin Kaloudis joins Bechtle as Executive Vice President

23 March 2023

On 1 April, Martin Kaloudis is to assume the position of Executive Vice President for Bechtle's Cluster West, joining the company from BWI GmbH, the IT systems integrator of the German Federal Armed Forces and Federal IT Service Centre. The 51-year-old has been BWI's Chief Executive Officer (CEO) and Chairman of the Board since 2019. Mr Kaloudis had previously held various management roles for Deutsche Bahn AG, spanning more than 20 years, including Head of Infrastructure Digitalisation, Chief Information Officer for Infrastructure, and Head of Telecommunications. His last such post was as Chief Operating Officer and Member of the Board for DB Kommunikationstechnik. Martin Kaloudis will succeed Axel Feldhoff who is retiring after over 12 years of service as an EVP for Bechtle.

Mr Feldhoff joined Bechtle in October 2010, taking on the role of EVP for its Cluster West. During his time at Bechtle, he has considerably developed the cluster of eight Bechtle companies with 12 locations and some 1,600 employees. Over the past fiscal year, Bechtle achieved a consolidated business volume of more than one billion euros in the region.

"I know Bechtle well as a valuable, strategic partner from my previous roles. I subscribe to the same values and I didn't hesitate for second to accept this fantastic offer," says Mr Kaloudis. "Now more than ever, IT system houses are called upon to develop digital, reliable, and independent solutions for businesses and the public sector. Bechtle absolutely has what it takes to do this right, and I look forward to being part of a strong community and many successful customer projects."

"We're delighted to have gained an excellent EVP for our Cluster West in Mr Kaloudis, and I know that he will continue its successful path with great verve and fresh ideas. "His wealth of experience and spirit will prove a huge asset for Bechtle," says Michael Guschlbauer, COO, IT System House & Managed Services, Bechtle AG. "Mr Feldhoff achieved outstanding results over the past few years, moulding our Cluster West into a brilliant and cohesive community with his distinct leadership style. We would like to extend our sincere gratitude for his commitment and all he has done over the years."

Plataine partners with NIAR ATLAS to promote innovation and digitalization in aerospace

21 March 2023

Plataine, a leading provider of AI and Industrial IIoT-based manufacturing optimization solutions, is excited to announce a partnership with the Advanced Technologies Lab for Aerospace Systems (ATLAS), part of the National Institute for Aviation Research (NIAR) at Wichita State University, to explore opportunities for further digital transformation of advanced manufacturing processes through data analytics.

Carbon fiber materials will be tracked using Plataine's time sensitive material management technology for advanced manufacturing and aerospace composites. This will demonstrate

effective digitization of the composite process and time sensitive material management best practices to the next generation of advanced material leaders.

Researchers at NIAR ATLAS will examine how Plataine's technology can help manufacturers and advanced material vendors drive innovation while undertaking industry challenges such as labor shortages, supply chain disruption, sustainability and delays caused by use of expired materials.

NIAR has a strong history of leading aviation industry research, and the partnership with Plataine will build on its advanced manufacturing research and development to fuel further innovation. ATLAS provides a multi-disciplinary manufacturing and applied learning environment, and Plataine will make full use of the facility's state-of-the-art machines, software, and processing technologies.

Announcing the partnership, Avner Ben-Bassat, CEO & President at Plataine, says, "We are proud to partner with NIAR of Wichita and are looking forward to finding new ways to tackle the challenges of our industry through digitization and automation of factories. Working alongside individuals who share our commitment and vision of delivering groundbreaking innovative technology to the aviation industry is a privilege." Ben-Bassat adds, "This partnership will prepare engineers and educators for the Factory of the Future, demonstrate new ways for manufacturers to meet increased production demand and help current workforces make the seamless transition to advancements in the workplace."

NIAR has built a strong relationship with various divisions of the U.S. Department of Defense, leading to a fifth place ranking among U.S. universities in a list of federally funded aerospace R&D expenditures, with \$63 million in funding.

Dr. Waruna Seneviratne, Director of NIAR ATLAS, comments: "Being a part of the applied learning ecosystem at Wichita State and working with our industry partners, NIAR researchers are dedicated to driving innovation, advancing knowledge, and defining best practices in the field of aviation and composites."

"We are evaluating game-changing solutions for rising production demand and industry challenges such as supply chain and labor shortages. Working with Plataine dovetails with our vision, enabling us to continue looking toward the future of advanced manufacturing and inspiring the leaders of tomorrow."

Sage launches incubator empowering US nonprofits

21 March 2023

Sage, the leader in accounting, financial, HR, and payroll technology for small and mid-sized businesses (SMBs), announces the launch of its Sage Foundation Grow Program incubator to empower nonprofit leaders in the US.

The incubator is hosted by Sage Foundation, bringing together nonprofit CEOs and Executive Directors for a series of in-person business development sessions across the year, aimed at providing a lasting legacy of transformational impact for the nonprofits taking part. Each nonprofit is strategically matched with one or more Sage leaders based on their objectives to

improve and grow their nonprofit. Together they identify a strategic project that would help the nonprofit amplify their impact in the community. By the end of program, each non-profit organization will have the tools to help execute their strategic projects to continue to deliver more social impact in their respective communities, and to improve the capacity of themselves, and their nonprofits, to continue to grow their support for their beneficiaries in the future.

The 2023 cohort consists of four local nonprofits in metropolitan Atlanta:

- Hope for Youth: Empowers girls of color with technology skills and prepare them to become future leaders in tech careers.
- Future Successors: Brings awareness and resources to underprivileged youth to reach their full potential of success through business education.
- 3D Girls, Inc.: Educates and empowers young women through S.T.E.A.M. focused mentoring, prenatal and parent education, and social and emotional wellness.
- Automotive Training Center: Provides young men and women from at-risk and low-income neighborhoods with technical training for entry-level employment in the automotive repair industry.
- Helping Empower Youth (HEY!): Develops young people in leadership skills to ensure they are equipped in leading themselves and their communities.

Cadence Willis, VP of Sage Foundation said, “This year’s cohort comprises of so many empowering leaders in the non-profit space. With our pilot of a Sage Foundation Grow in Australia and Canada, we are now expanding in Richmond, B.C. and taking the program to Atlanta, Georgia. Sage Foundation works with non-profits around the world to tackle inequality and the barriers facing many people in our local communities. The Grow Program incubator does exactly that –working in partnership with the non-profit sector to help more people thrive”

Aziz Benmalek, President of Sage in North America, adds “Sage Foundation Grow embodies Sage’s company values of being bold, human, and doing the right thing to deliver important resources for Atlanta’s nonprofit community. Collaborating with nonprofits in the community we reside in, is so valuable to us. With \$1.5 trillion in economic contributions, nonprofits are critical to our economic recovery for community resilience, providing essential services and promoting educational opportunities through art, culture and sports. I’m proud to see Sage Foundation take this program to new heights this year and connect with nonprofit leaders.”

Sage Foundation was established in 2015 to connect with non-profits globally to knock down barriers, mobilising Sage colleagues, partners, and customers through impactful and innovative programmes. Through our strategic partnerships, Sage Foundation is supporting underrepresented groups to grow sustainable businesses, giving young people access to STEM skills and knocking down barriers to entrepreneurship in the developing world. Sage Foundation gives every colleague five days’ paid volunteering leave every year to spend time knocking down barriers locally, supporting causes that are important to them

Schneider Electric partners with SkillPointe Foundation to Fund Boston-Area Scholarships for Skills-Based Careers

21 March 2023

Schneider Electric, the global leader in the digital transformation of energy management and automation, together with SkillPointe Foundation, have established a new scholarship program that will fund training in the Boston area for skills related to the rapidly-expanding building automation field with aim to develop America's skilled workforce and provide new opportunities for aspiring individuals of all backgrounds.

The Schneider Electric SkillPointe Scholarship supports vocational training that empowers Americans to build better lives while providing broader industry with needed talent. The new Boston-area scholarship expands upon the existing scholarship program Schneider Electric has established in its New York and New Jersey market.

A total of twelve \$2,000 grants will be awarded by the Atlanta-based SkillPointe Foundation during Spring 2023. Scholarships are available to individuals of all backgrounds in the Greater Boston Area who are pursuing vocational training for jobs such as, field service technician, HVAC technician, cable/fiber technician, electronics and electrical technician, IT support specialist, and software development.

Nicolette Fondl, General Manager at Schneider Electric noted "Schneider Electric is proud to be able to promote excitement and accessibility into our industry and to be able to provide assistance to those that may not have access to secondary education without it. We seek to support in all ways the communities we serve with an aim to establish a sustainable workforce to support the growing demand of buildings and our customers."

"Schneider Electric's Digital Building practice is transforming the places Americans live and work, but continued success depends on skilled talent pipelines," said Alvin Townley, founding executive director of the SkillPointe Foundation. "We're proud to expand this partnership to Boston and continue to help a global leader like Schneider Electric innovate and build a larger and more inclusive skilled workforce. Together, we're also helping workers in the Boston area obtain new skills and realize better futures."

The Application deadline for the new Boston-area scholarship program is June 30, 2023.

Event News

OpenText to Showcase Latest in Legal Technology Innovations at Legalweek New York 2023

20 March 2023

OpenText™ continues to propel businesses into 2030 as it kicks off its sponsorship of and participation in Legalweek New York 2023 by gearing up for an exciting week of showcasing its advanced capabilities in its legal technology portfolio. As a global leader in Information Management, OpenText provides end-to-end solutions for organizations, allowing them access

to smarter eDiscovery and legal content and knowledge management solutions that empower businesses to be more intelligent, connected, secure and responsible.

“With 70% of legal department leaders citing a renewed focus on adopting new or better technologies to simplify workflows and reduce manual processes to cut costs, OpenText is more focused than ever on delivering innovations that enable modernized, seamless workflows,” said Sandy Ono, Executive Vice President and CMO at OpenText. “The OpenText diverse portfolio of legal technology offerings helps employees focus on higher value activities, break down data silos, protect sensitive data throughout the legal lifecycle, and accelerate digital transformation.”

New Innovations in Axcelerate™

Instead of the conventional methodology of isolated point solutions based on the stages in the Electronic Discovery Reference Model (EDRM), mastering modern eDiscovery requires a more comprehensive approach. From the original project scoping to identifying the relevant data during early case assessment and review, legal teams need streamlined processes to optimize productivity and deliver better value.

With the launch OpenText Axcelerate™ 23.1, users will be able to transfer relevant documents directly into Opus 2™ Case Management, a top case management and trial preparation platform, expanding Axcelerate's capabilities throughout end-to-end litigation workflows. Users of Axcelerate can now more effectively connect the crucial facts in a case so they are best used for case strategy, depositions, and trial process management.

Recent enhancements include:

- Integration with Amazon™ Translate including seventy-five supported languages. Review project managers can now reduce costs and timelines by reviewing entire documents or any portion of the document in the preferred language(s).
- Enhanced redaction automation and automated quality control (QC) processes to lessen the burden and risks of manual review and improve accuracy. Enhancements include pre-configured and customizable patterns, including a Regular Expression (RegEx) engine, automated detection and redaction of people, places and organizations, and support for inverse redactions in the Near Native Microsoft® Excel® viewer to efficiently redact everything except selected cells when only discrete portions of data are appropriate to share.
- Chat data support including new connectors for Slack, chat redaction view and support for emojis.
- Data privacy enhancements with RegEx pattern editing and new pattern creation.
- Smartphone data support including Cellebrite, SRY and Oxygen.

"Does OpenText help Phillips Lytle differentiate in the market? I would say a resounding yes," said Anna Mercado Clark, Partner at Phillips Lytle LLP. "To be able to offer such a comprehensive and powerful tool as part of our pitches, and client offerings, has really elevated our practice."

OpenText will be participating in the session, *Structuring Investigations to Guarantee Efficiency and Success in Every Scenario* on Wednesday, March 22 from 11:30 AM to 12:30 PM. OpenText Lead Strategy Consultant, Tom Gricks and Principle Consultant, Tracy Drynan, will be joined by Robert Keeling, Parter at Sidley Austin LLP, to share tips and discuss how to confidently get to the right facts faster, conduct a thorough and consistent electronically stored information (ESI) investigation, and utilize the right investigation techniques and technology at the right time.

[Join us](#) at Legalweek New York 2023 from March 20 – 23 and find us in booth #2218.

***Source:** Thomson Reuters, 2021 State of the Corporate Law Departments, 2021

Vectorworks, Inc. to Host Open House on April 19

20 March 2023

Global design and BIM software provider Vectorworks, Inc. will virtually host its third Open House on Wednesday, April 19, 2023. This free global event is designed for customers in the architecture, interiors, landscape architecture and entertainment design industries to connect face-to-face with the Vectorworks team. Customers can dive into new and improved features and gain insights on features geared toward their workflow.

“The Vectorworks Open House is an invaluable global experience for our customers to meet the engineers behind their software, see how they can enhance their workflow and learn about future developments in a casual format,” said Vectorworks Chief Product Officer Darick DeHart. “We look forward to connecting with customers on how we can best support their workflow so they can continue to create limitless designs.”

Attendees will be able to connect with engineers, product experts and the Vectorworks leadership team over Zoom to discuss various key topics, including:

- Architecture, Interiors and BIM
- Entertainment
- Landscapes, BIM and GIS
- Cloud and Mobile
- Rendering
- Vectorworks Public Roadmap
- 3D Modeling
- Vectorworks University and Certifications

This year’s event will occur 10 a.m. to 5 p.m. EDT and 9 a.m. to 12 p.m. AEST. Attendees worldwide can join in at any time during the event’s duration for their convenience. Those interested in attending should secure their spot by visiting the [registration page](#).

Press interested in attending should contact the Vectorworks Media Relations team at pr@vectorworks.net for more information, to request a demo or schedule a press interview with executives or industry experts.

Financial News

Accenture Reports Strong Revenues and Record New Bookings for Second-Quarter Fiscal 2023

23 March 2023

Accenture reported financial results for the second quarter of fiscal 2023, ended February 28, 2023, with revenues of \$15.8 billion, an increase of 5% in U.S. dollars and 9% in local currency over the same period last year.

Click to download the [Q2 FY23](#) and [Q2 FY23 YTD](#) earnings infographic.

Nemetschek SE lays decisive foundations for future dynamic growth after successful 2022 financial year

23 March 2023

Following the successful 2022 financial year, in 2023 the Nemetschek Group, a globally leading software provider for digital transformation in the construction and media industries, is laying decisive foundations in order to continue to achieve dynamic double-digit revenue growth rates and high profitability in the future. The ongoing transition of the business model from selling perpetual Licenses to Subscriptions & SaaS will be accelerated in 2023 – particularly through the transition initiated at the Bluebeam brand. Despite the associated short-term dampening effect on revenue development and profitability and the currently changed economic environment, the Nemetschek Group expects attractive growth in 2023. Strong acceleration of growth momentum is expected again from 2024 onwards.

“By driving the transition to Subscription-based and SaaS models this year, we are making it possible to generate significantly higher revenues per user and create a higher customer lifetime value in the medium and long term,” said Yves Padrines, CEO of the Nemetschek Group. “In addition, these revenues are not only more predictable but also less volatile across economic cycles. This creates the conditions to benefit in the best possible way from the enormous potential of our growing markets, both in the construction and in the media business. This is because the structural growth drivers for the Nemetschek Group – such as the low level of digitalization or the need for more efficiency and sustainability in the construction industry – aren’t just intact but are becoming increasingly important in the current environment.”

Outlook for 2023 to 2025

For 2023, the Executive Board expects further attractive growth despite the deterioration in general economic conditions and the Bluebeam brand’s simultaneous transition to Subscription and SaaS. To present the growth momentum and success of the ongoing transition of the business to Subscription-based and SaaS models more transparently, Nemetschek added the new KPI annual recurring revenue (ARR) in 2022. As well as Subscription and SaaS, this indicator also covers revenue from service contracts. ARR growth of more than 25% is expected for 2023, with the result that the share of recurring revenue in total revenue should already reach more

than 75% in the current year (previous year: 66%). Currency-adjusted revenue growth should be between 4% and 6%. At 28% to 30%, the Executive Board expects the EBITDA margin for 2023 to remain at a high level.

For 2024 we already expect a continuation of double-digit percentage revenue growth. At the same time, the EBITDA margin is expected to be above 30%. Due to the significantly over proportional increase in Subscription and SaaS revenue, Nemetschek expects in 2024 recurring revenues to represent around 85% of total revenues.

After a successful transition of the majority of the business to Subscription/SaaS, growth momentum is expected to increase again for 2025 with a revenue growth of at least mid-teens, which is well above the market average.

"With our strategic focus topics such as further internationalization, new technologies such as digital twins, AI and cloud solutions, and our initiatives for greater customer proximity and internal efficiency, we are excellently positioned to continue driving digitization in the construction industry. At the same time, we will also benefit from our excellent positioning in the media sector in the future," said CEO Yves Padrines. "After a successful transition to Subscriptions & SaaS, we also see the opportunity for structurally higher growth rates for Nemetschek that are significantly above the market average."

Overview of the key indicators for the 2022 financial year

- With an increase of 27.4% to EUR 581.7 million, ARR growth was significantly above the Group's growth, which continues to indicate high, stable growth potential for the next 12 months. In line with the strategy, the share of recurring revenues further increased to more than 66% of the Group's revenue (previous year: 61%). This increase was again fueled by revenues from Subscriptions and SaaS, which grew strongly and over proportionately by around 54.7% (adjusted for currency effects: 46.8%) to EUR 204.2 million.
- Group revenues increased by 17.7% (adjusted for currency effects: 12.1%) compared with the previous year to EUR 801.8 million. The currency-adjusted revenue growth was therefore in the forecast range of 12% to 14%.
- Group earnings before interest, taxes, depreciation and amortization (EBITDA) rose by 15.8% to EUR 257.0 million. At 32.0%, the EBITDA margin reached the forecast range of 32% to 33%.
- Net income showed strong growth of 20.3% to EUR 161.9 million, which equates to earnings per share of EUR 1.40 (2021: EUR 1.17).
- The Executive Board and Supervisory Board propose an increase in the dividend by 15.4% to EUR 0.45 per share based on the good business development for the 2022 financial year (previous year: EUR 0.39 per share).

Strategic highlights

- Foreign revenues further increased from 76% in 2021 to 79% of the Group's revenues in the year under review as part of the strategy. In the future, Nemetschek will continue to drive internationalization and create the structures for further international growth, in particular with a focus on the regions of the Americas and Asia/Pacific.
- Nemetschek further strengthened its go-to-market approach in 2022. This is aimed at connecting the Group brands' products and solutions to an even greater extent, expanding the e-commerce offering, and advancing regional growth initiatives. As a result, Nemetschek will be able to serve existing customers and secure new customer groups even better at the same time.
- In addition, Nemetschek has set innovation focus areas in cloud solutions, digital twins, and artificial intelligence (AI). They include, for example, the new Bluebeam cloud product offering and the development of an open, cloud-based digital twin platform.
- Nemetschek has also further strengthened its power to innovate through targeted investments in start-ups. In addition to taking a stake in the start-up SymTerra, which offers a digital platform for construction site communication, Nemetschek has also invested in the young robotics company Kewazo, whose innovative solutions optimize processes and the flow of materials on construction sites with the aid of robotics and data analytics.
- Moreover, the structures within the Group will be further streamlined. In addition to further integrating brands, internal processes and IT structures are also being optimized. All these measures serve to even further improve operational excellence with the aim of increasing customer satisfaction and successfully mastering further growth.

Segment developments in 2022 (see table)

- In the Design segment, revenue grew by 9.6% (adjusted for currency effects: 6.0%) to EUR 391.6 million, despite a changing market environment, particularly in Europe, and longer sales cycles at customers. At the same time, the segment recorded strong growth in Subscription revenue by 51% (adjusted for currency effects: 43%), confirming the segment strategy of also increasingly offering Subscription models in addition to licenses. The EBITDA margin was 32.4% (previous year: 33.7%).
- The Build segment achieved very strong revenue growth again despite the transition to Subscription and SaaS models by the US brand Bluebeam, which started in Q3 2022. Segment revenues increased by 24.1% (adjusted for currency effects: 14.6%) to EUR 268.3 million. The EBITDA margin was 38.5% (previous year: 41.3%).
- The revenue in the Media segment increased significantly by 48.5% (adjusted for currency effects: 41.2%) to EUR 104.7 million. As well as strong organic growth momentum, the Media segment also benefited from the acquisition of the business operations of Pixologic, Inc. at the end of 2021. The EBITDA margin increased strongly from 36.2% in the previous year to 43.8%.

- In the Manage segment, revenue increased by 6.8% (adjusted for currency effects: 7.1%) to EUR 46.7 million. The EBITDA margin was 8.2% (previous year: 9.3%) partly due to increased investments.

The aforementioned forecasts are subject to the express proviso that global economic and industry-specific conditions do not significantly deteriorate, especially with a view to the growing global economic risks resulting from the war in Ukraine, increased interest rates, and high general inflation.

Quarterly overview of Group key figures (Q4)

| In EUR million | Q4 2022 | Q4 2021 | Δ in % | Δ in % FX-adj |
|--|------------|------------|--------|------------------|
| ARR | 581.7 | 456.5 | +27.4% | +22.0% |
| Revenues | 203.0 | 187.9 | +8.0% | +3.9% |
| - thereof software licenses | 47.9 | 65.9 | -27.3% | -29.8% |
| - thereof recurring revenues | 145.4 | 114.1 | +27.4% | +22.0% |
| - Subscription & SaaS (part of recurring revenue) | 57.3 | 38.9 | +47.2% | +40.3% |
| EBITDA | 55.7 | 61.7 | -9.8% | -8.6% |
| Margin | 27.4% | 32.9% | | |
| EBIT | 40.5 | 49.0 | -17.2% | -14.5% |
| Margin | 20.0% | 26.1% | | |
| Net income (Group shares) | 34.0 | 37.8 | -10.1% | |
| Earnings per share in EUR | 0.29 | 0.33 | -10.1% | |
| Net income (Group shares) before amortization of purchase price allocation (PPA) | 41.4 | 42.1 | -1.7% | |

Earnings per share before PPA in EUR 0.36 0.36 -1.7%

Quarterly overview of the segments' key figures (Q4)

| In EUR million | Q4 2022 | Q4 2021 | Δ in % | Δ in % FX-adj. |
|----------------|---------|---------|--------|-------------------|
| Design | | | | |
| Revenues | 104.2 | 99.5 | +4.7% | +1.8% |
| EBITDA | 32.1 | 36.5 | -12.0% | -7.8% |
| EBITDA margin | 30.8% | 36.7% | | |
| Build | | | | |
| Revenues | 59.5 | 59.0 | +0.8% | -5.4% |
| EBITDA | 15.2 | 22.4 | -31.9% | -34.6% |
| EBITDA margin | 25.6% | 37.9% | | |
| Manage | | | | |
| Revenues | 12.8 | 10.8 | +18.9% | +19.5% |
| EBITDA | 1.6 | 0.8 | +83.7% | >100% |
| EBITDA margin | 12.2% | 7.9% | | |
| Media | | | | |
| Revenues | 29.0 | 20.5 | +41.7% | +35.6% |

| | | | | |
|---------------|-------|-------|--------|--------|
| EBITDA | 13.5 | 6.8 | +99.8% | +95.2% |
| EBITDA margin | 46.6% | 33.0% | | |

12-month overview of Group key figures

| In EUR million | FY 2022 | FY 2021 | Δ in % | Δ in % FX-adj |
|--|------------|------------|--------|------------------|
| ARR | 581.7 | 456.5 | +27.4% | +22.0% |
| Revenues | 801.8 | 681.5 | +17.7% | +12.1% |
| - thereof software licenses | 235.0 | 234.8 | +0.1% | -5.3% |
| - thereof recurring revenues | 532.6 | 416.7 | +27.8% | +21.7% |
| - Subscription & SaaS (part of recurring revenue) | 204.2 | 132.0 | +54.7% | +46.8% |
| EBITDA | 257.0 | 222.0 | +15.8% | +9.3% |
| Margin | 32.0% | 32.6% | | |
| EBIT | 198.1 | 172.0 | +15.2% | +8.5% |
| Margin | 24.7% | 25.2% | | |
| Net income (Group shares) | 161.9 | 134.6 | +20.3% | |
| Earnings per share in EUR | 1.40 | 1.17 | +20.3% | |
| Net income (Group shares) before amortization of purchase price allocation (PPA) | 188.9 | 153.9 | +22.7% | |
| Earnings per share before PPA in EUR | 1.64 | 1.33 | +22.7% | |

12-month overview of the segments' key figures

| In EUR million | FY 2022 | FY 2021 | Δ in % | Δ in % FX-adj. |
|----------------|---------|---------|--------|----------------|
| Design | | | | |
| Revenues | 391.6 | 357.3 | +9.6% | +6.0% |
| EBITDA | 126.9 | 120.5 | +5.3% | +1.9% |
| EBITDA margin | 32.4% | 33.7% | | |
| Build | | | | |
| Revenues | 268.3 | 216.2 | +24.1% | +14.6% |
| EBITDA | 103.2 | 89.3 | +15.6% | +6.1% |
| EBITDA margin | 38.5% | 41.3% | | |
| Manage | | | | |
| Revenues | 46.7 | 43.7 | +6.8% | +7.1% |
| EBITDA | 3.8 | 4.1 | -5.6% | +6.3% |
| EBITDA margin | 8.2% | 9.3% | | |
| Media | | | | |
| Revenues | 104.7 | 70.5 | +48.5% | +41.2% |
| EBITDA | 45.9 | 25.5 | +79.9% | +72.0% |
| EBITDA margin | 43.8% | 36.2% | | |

Simulations Plus Sets Date for Second Quarter Fiscal Year 2023 Earnings Release and Conference Call

21 March 2023

Simulations Plus, Inc., announced that it will report financial results for the second quarter of fiscal year 2023, the period ended February 28, 2023, after the close of the financial markets on Wednesday, April 5, 2023.

The Company will host a conference call on April 5, 2023, at 5:00 p.m. Eastern Time. All interested parties are invited to join the live webcast by registering [here](#). The conference call can also be accessed by dialing 877-451-6152 (domestic) or 201-389-0879 (international) or by clicking on this [Call me™](#) link to request a return call. The webcast can be accessed on the [Investors](#) page of the Simulations Plus website where it will also be available for replay approximately one hour following the call.

Implementation Investments

3D Systems Collaborates with TE Connectivity on Innovative Solution to Additively Manufacture Electrical Connectors

20 March 2023

3D Systems announced its collaboration with **TE Connectivity**, a world leader in connectors and sensors, to jointly develop an additive manufacturing solution to produce electrical connectors meeting stringent UL regulatory requirements. The solution comprising 3D Systems' **Figure 4® Modular**, Figure 4 material, **3D Sprint®** software, and services was designed to meet TE Connectivity's unique requirements for material performance and high tolerance, reliable printing. The foundation of the solution is a newly developed photopolymer 3D Systems engineered specifically to meet TE Connectivity's requirements. In addition to a world-class flammability rating at 0.4mm thickness, it is the first known printable photopolymer to complete a UL^[1]-recognized long-term thermal aging (RTI) study. This material combined with an optimized print process enables the necessary reliability and accuracy required for TE Connectivity's products. Using 3D Systems' Figure 4 technology, the combination of new material properties, speed, and accuracy allows the production of rugged industrial products for the first time, targeted at appliances, cellular and data-center applications. Additive manufacturing provides TE Connectivity freedom of design to create complex geometries that would be difficult to create using injection molding. It increases flexibility for low volume, quick turn production runs, and tooling avoidance, allowing TE to quickly demonstrate its capabilities and its customers to more efficiently meet demand.

3D Systems' **Application Innovation Group** (AIG) collaborated with TE Connectivity's team to develop a full production workflow from design to a finished connector. The program included the development and UL certification of a new Figure 4 material. UL regulatory approval has been obtained, including UL94 V0 flame rating at 0.4mm, Glow Wire Ignition (GWI) of 800°C, Comparative Tracking Index (CTI) of 600V (equivalent to a PLC of 0), and

Relative Temperature Index (RTI) for long-term electrical and mechanical use of 150°C and 130°C, respectively.

“As 3D printing technology evolves, we’re seeing more opportunities for using it to manufacture products for customers who need a low volume of parts in a short timeframe,” said Philip Gilchrist, VP and segment chief technology officer for Communications Solutions at TE Connectivity. “Our work with 3D Systems enables us to provide our customers with functional parts in just weeks instead of months.”

“Customer-centric innovation is at the core of everything we do,” said Reji Puthenveetil, executive vice president, industrial solutions, 3D Systems. “The collaboration with TE Connectivity provided the understanding and requirements of the unique application being addressed and enabled the development of the solution. Our materials scientists and print process experts worked very closely with the TE team to formulate a material that, when used in conjunction with our Figure 4 technology, delivered on the high quality, high-reliability standards their customers have come to expect. This is yet another example of how 3D Systems is partnering with industry leaders to accelerate innovation and build competitive advantage through additive manufacturing solutions.”

AVEVA Partners with Azule Energy to Enable World-Class Operations Through Digital Transformation

22 March 2023

AVEVA, a global leader in industrial software, driving innovation and sustainability, has partnered with Azule Energy, Angola’s largest independent oil and gas operator, to drive digital excellence throughout the firm’s operations.

The partnership agreement will enable Azule Energy – a 50/50 Joint Venture backed by bp and Eni – to reduce costs, improve safety and unlock new production opportunities using AVEVA’s cloud, Software-as-a-Service (SaaS) and digital twin technologies.

Moreover, the partnership will help cut the time spent searching for key asset information, improve maintenance planning, reduce offshore trips and visits, enhance team collaboration, and facilitate remote operations.

Azule Energy boasts a strong pipeline of new projects that are scheduled to support the energy needs of Angola’s growing economy and strengthen its role as a global liquified natural gas (LNG) exporter.

Digital Twin Spans Entire Asset Lifecycle

AVEVA will deploy its digital twin software to connect data from every layer of the technology stack for one contextualized, multi-visual experience. In the first phase, AVEVA will focus on existing operations, implementing AVEVA Asset Information Management, AVEVA Information Standards Manager, and Assai Cloud for Operations – for two existing floating production storage and offloading units (FPSOs) in Block 18 (Greater Plutonio Development) and Block 31 (PSVM).

AVEVA's digital twin technology is the only solution on the market that spans the entire asset lifecycle. The vendor-agnostic solution is scalable, integrated, and open. It unites engineering and enterprise data to create a true digital backbone that will bring industrial intelligence to Azule's entire team, delivered via the cloud.

Peter Harriman, COO, Azule Energy, said: "We have signed a strategic contract with AVEVA to digitally transform our operations for optimized productivity, efficiency and safety. This partnership will enable Azule Energy to achieve our goal of establishing a world-class operation."

Caspar Herzberg, CEO, AVEVA, commented: "The move to AVEVA SaaS will empower Azule Energy to innovate and remotely collaborate across teams regarding their FPSO assets. The vessels are located a long distance offshore, which represents a significant challenge to operations. Using data-led insights, Azule's team will be able to breakdown silos and deepen collaboration between onshore and FPSO teams, using their combined insight to streamline processes and accelerate delivery."

Herzberg added: "AVEVA's industry leading visualization technology will further enable Azule Energy to deliver faster and at scale. AVEVA is the only provider to supply a fully integrated solution that can be developed quickly and reliably. Together we are committed to providing secure, lower carbon energy to support Angola's sustainable development."

Bentley Systems Announces Infrastructure Projects Achieve Measurable Results with LumenRT for NVIDIA Omniverse, Powered by iTwin

21 March 2023

Bentley Systems, Incorporated, the *infrastructure engineering software* company, announced how infrastructure organizations across industries and around the globe are leveraging the power of LumenRT for NVIDIA Omniverse, powered by iTwin, a solution enabling infrastructure organizations to create compelling visualizations and project deliverables with unprecedented speed and quality, make better-informed decisions, and win more projects.

LumenRT for NVIDIA Omniverse is the first engineering software application in the market built on Omniverse, a platform for creating and operating industrial metaverse applications. The integration of NVIDIA Omniverse and Bentley iTwin enables real-time, immersive 3D/4D experiences to enhance the visualization and simulation of infrastructure digital twins. The combined capabilities are delivering new possibilities and incredible results for some of the world's largest and most complex infrastructure projects.

An early adopter of LumenRT for NVIDIA Omniverse is Brigantium Engineering, an engineering and consulting services contractor working on the ITER project in southern France, where 35 nations are collaborating to build the world's largest tokamak and the first fusion device to produce net positive energy output across the plasma. Although the official language on the ITER project is English, there are more than 45 native languages spoken in the head office. Further complicating coordination, not all participants are accustomed to interpreting 2D drawings and Gantt charts.

To overcome these language and communication barriers, Brigantium is leveraging LumenRT for NVIDIA Omniverse to provide an interactive 4D model that is intuitively understood by everyone, vastly improving and streamlining communication. Brigantium expects that this increase in user engagement and improved feedback will result in profoundly improved cross-departmental communications, quicker execution times, reduced errors, and less lost time, amounting to overall team efficiency gains of up to 80%.

“The power of LumenRT for NVIDIA Omniverse, combined with the iTwin Platform, will allow our project teams to effortlessly combine models from multiple design tools and instantly create high-fidelity, engineering-accurate visualizations that communicate the design intent of the project. These kinds of visualizations are critical to project communications,” said Lynton Sutton, Managing Director, Brigantium Engineering. “In the past we relied on specialists devoting valuable time and effort toward creating these essential project deliverables. It was inefficient, but necessary. Now, with LumenRT for NVIDIA Omniverse, everyone on the project can create compelling visualizations in less time and of higher quality than previously possible.”

LumenRT for NVIDIA Omniverse is also bringing innovation to the Tuas Water Reclamation Plant (TWRP) being built by PUB, Singapore’s National Water Agency. A giant step toward closing the water loop for Singapore, the TWRP is a one-of-a-kind, multidiscipline mega project to build a treatment facility for industrial and household wastewater. A project of this scope and complexity presents major challenges in coordination and communication across 16 different contractors on designs and construction representing 3,500 separate BIM models. “Preparing for monthly stakeholder review sessions with our client used to be quite time consuming – to assemble and align all the model data and to create renderings and videos to share with the client. With the BIM model management of ProjectWise powered by iTwin, assembling the data is effortless,” said OhSung Kwan, TWRP BIM Manager, with Jacobs. “With LumenRT for NVIDIA Omniverse, preparing renderings and videos takes much less time and we can explore more options with immersive VR. With these solutions together, we have reduced our preparation time for model review sessions, saving project costs and allowing more time to focus on collaboration with our client.”

By leveraging the iTwin federated model for visualization, LumenRT for NVIDIA Omniverse enables rapid change propagation that simplifies visualization workflows by linking directly to a single federated infrastructure digital twin so when changes occur, they are synchronized automatically, which allows the project stakeholders to review safety, quality, and design changes. Project teams can also create immersive virtual-reality and augmented-reality design experiences for stakeholders, a capability that has become increasingly sought after for visualizing industrial-scale projects. As projects become larger and more complex, such virtual-reality and augmented-reality design experiences offer a more compelling way to engage customers in order to win new work, and then to sustain the win by keeping stakeholders informed and engaged.

While Brigantium and PUB are benefiting from improved communication and collaboration, engineering professional services firm WSP finds LumenRT for NVIDIA Omniverse and the iTwin Platform instrumental for winning new projects and maintaining stakeholder engagement. WSP

is utilizing LumenRT for NVIDIA Omniverse to produce compelling visualizations for the multibillion-dollar I-5 Interstate Bridge Replacement (IBR) Project between Oregon and Washington in the United States. The existing Interstate Bridge serves as a vital trade route for regional, national, and international economies, but the aging infrastructure is inadequate for modern traffic and is also at risk of collapse in the event of a major earthquake.

Washington State Department of Transportation (WSDOT) and Oregon Department of Transportation (ODOT) are supporting the use of a digital twin developed on the iTwin Platform throughout the full program cycle, from public outreach with conceptual design, through detailed design, into construction, and eventually for continuous operations and asset management. One of the many advantages to this approach is that it enables WSP to sync change sets and seamlessly and rapidly generate updated visualizations without time-consuming imports and exports.

“WSP has committed to using infrastructure digital twins for all the benefits they provide, not the least of which is being able to create compelling visualizations quickly and easily, first to win the work and then sustain the win by keeping stakeholders informed and engaged throughout the project,” said Tom Coleman, Vice President, WSP USA. “Bentley’s workflows in the conceptual phase allowed us to engage stakeholders sooner and more effectively. We were able to produce many times more conceptual designs than we ever could in traditional methods. The team produced well over 30 conceptual designs for the client to evaluate.”

These are only the first of many success stories likely to come from the now public availability of LumenRT for NVIDIA Omniverse.

“The results being achieved by the early adopter users of LumenRT for NVIDIA Omniverse demonstrate a unique advantage for project teams working with infrastructure digital twins by providing powerful new digital twin-native workflows that make visualization advantageous to apply on projects of every scale,” said Lori Hufford, Vice President, engineering collaboration, with Bentley.

The combination of iTwin and NVIDIA Omniverse provides an unmatched, high-performance user experience for infrastructure organizations at a scale that has previously not been possible. ProjectWise, powered by iTwin, leverages Bentley’s infrastructure schemas to semantically align design file data across multiple disciplines, mapping the information to a common schema that is open and extensible. The result is that all data is retained and not lost along the way as an asset moves from one phase to the next.

“Creating project visualizations during work-in-progress can be extremely time consuming, particularly as we need to combine or isolate different disciplines, assemblies, or specific parts of the model, which has meant a lot of juggling of files and separate, manual partitioning of models and one-off visualizations,” said Jarred Myburg, Development Manager – design tools & visualization, Hatch Ltd, another early adopter. “The alignment of model data by iTwin made it easy to employ LumenRT for NVIDIA Omniverse to streamline creation of visualizations of various parts of the model at different stages and tell a compelling story much more quickly, making visualizations much more effective to employ throughout projects.”

“The scale and complexity of the infrastructure projects described here demonstrate the need for AI-enhanced real-time visualizations to support the successful execution and delivery of these projects through improved communication across multiple stakeholders — iTwin and NVIDIA Omniverse help to solve these problems,” said Richard Kerris, Vice President of the Omniverse developer ecosystem, with NVIDIA.

NVIDIA Omniverse provides a graphics pipeline for AI-enhanced, real-time visualization, and simulation of infrastructure digital twins, allowing engineering-grade, millimeter-accurate digital content to be visualized with photorealistic lighting and environmental effects on multiple devices, including web browsers, workstations, tablets, and virtual-reality and augmented-reality headsets, from anywhere in the world.

Cadmatic enters agreement with LKAB to support digital transformation

22 March 2023

Cadmatic and LKAB have entered an agreement whereby Cadmatic will provide LKAB with asset management and digital twin technologies for its groundbreaking ReeMAP circular industrial park project for extraction of phosphorus and rare earth elements in Luleå, Sweden.

LKAB is Europe’s largest producer of iron ore. The ReeMAP project aims to use by-products of iron ore mining to increase Europe’s self-sufficiency in the critical raw materials phosphorous and rare earth elements. The circular and climate-efficient materials will be used in green technology and in mineral fertilizer for food production.

“LKAB is 130 years old, but we are building for the future. We will use Cadmatic solutions to handle asset information during engineering and production on the ReeMAP project and is one important part in our ongoing digitalization. In our future vision, digital twins will be at the core of smart mining and industrial plants, operator training, maintenance and asset management and automation to mention just a few applications. Cadmatic solutions will support this digital transformation,” says Johan Breheim, ReeMAP Project Manager, Business Area Special Products, LKAB.

Coreform wins major grant to develop Coreform IGA for GPU

14 March 2023

Computer simulation allows for testing of parts and assemblies without having to manufacture and physically manipulate them, which can save significant time and money in the product development process. Unfortunately, mainstream simulation software is incompatible with the data structures used for design models. Even today’s best methods for problems like simulating automotive crashes require millions of dollars of manual labor to prepare each simulation. And even after all this work, these approximated simulation models take up vast amounts of high-performance computing resources. While simulation has an important role in product development, these inefficiencies limit how much it can actually be used to perfect new designs.

“This award underscores the importance of new methods for computer simulation, which plays an important role in product development but has suffered from severe bottlenecks and

limitations that have blunted its impact,” notes Chief Strategy Officer Matt Sederberg. “This funding will allow us to optimize our new technology for high performance computing and continue to unleash the power of simulation across industries.”

Coreform is developing a new technology that eliminates those approximations and inefficiencies, but is not yet configured to run on GPU-driven HPC systems. Coreform CEO Michael Scott says “This grant provides further support for our efforts to develop IGA for industry, and adding GPU capabilities will allow our code to handle even the most complex simulations.”

With an earlier, exploratory grant, Coreform collaborated with a national laboratory to partially integrate Coreform IGA with MFEM, a DOE-developed, GPU-enabled, finite element discretization library. The proof of concept they developed was highly successful, and led to the DOE’s decision to further fund the approach. When the project is completed, GPU-enabled Coreform IGA will be available for purchase at Coreform’s website.

Gulfsands Goes Live with Financial System Move into the Cloud with Infor and Progressive TSL

22 March 2023

Infor® the industry cloud company, announced that independent energy company Gulfsands has deployed Infor SunSystems Cloud as its financial platform via Infor Gold Channel Partner Progressive TSL. As the first customer to go live on the multi-tenant cloud financial application, Gulfsands is already seeing benefits via increased security, reduced risk, and improved functionality and performance. The smaller IT footprint, as a result of the multi-tenant model, will minimise administration and task duplication, enabling easier, more consistent access across the world, and a sharper, more-informed focus on its core business goals. It also eliminates the environmental impacts of maintaining an in-house IT infrastructure.

As part of a programme to modernise and digitalise its core systems, Gulfsands selected Infor SunSystems Cloud having been a long-standing SunSystems user. As an independent, public energy company with a growth strategy, having a robust platform from which to support its potential, scale and business expansion is crucial, as is the ability to handle the varying currency, taxation and legislative demands of a wider geographic reach.

The leading energy company is London based and recently opened an office in Abu Dhabi, UAE, to help with its focus on the Middle East and North Africa region. It opted for a cloud deployment to take advantage of having no physical servers, with reduced risk, cost and improved security as a result, as well as the updated functionality and capabilities in the latest version of SunSystems. The cloud also delivers a much easier way of supporting an increasingly dispersed workforce, as users can now access the system seamlessly from wherever they are in the world, which will be a huge benefit as the company scales.

“Having been a long-standing user of Infor SunSystems and having moved our other core systems to the cloud, we are incredibly excited to be the first customer to go live with Infor SunSystems Cloud,” commented Andrew Morris, Gulfsands finance director. “The deployment

has surpassed our expectations, and was delivered on time and on budget. We are already seeing the benefits of speed of access and the improved security environment.

“The collaborative approach taken across the three project teams at Infor, Progressive and Gulfsands has allowed us to navigate obstacles pragmatically and quickly, while familiarity with the system has enabled our users to get on board much faster,” he explained. “The entire process has been so much smoother than we anticipated, and we are confident that we have the best system in place to support us as we get ready to scale-up our business.

“Progressive TSL has supported us since 2013, providing in-depth experience and expertise from across the energy sector, in particular in oil and gas. Their approach is patient, pragmatic and consultative, and they’ve genuinely been a trusted partner in our quest to modernise and future proof our business through deployment of the very best digital capabilities,” Morris added.

Joe Vargas, VP & general manager of Infor SunSystems, noted, “We’re delighted to welcome Gulfsands as our first Infor SunSystems customer to embrace the benefits of a full cloud deployment. So much more than a modern accounting system, Infor SunSystems Cloud delivers improved collaboration, security and a lower total cost of ownership that puts this energy leader in the best position from which to pursue its expansion and scale the business.”

Chris Walcot, CEO of Progressive TSL, added, “Powered by Amazon Web Services, Infor SunSystems Cloud provides added confidence from both a risk and security perspective, delivering resilient, world-class advanced cloud infrastructure in combination with modern, international financial capabilities. We’re delighted to be working closely with Infor to deliver these capabilities to our customers, and look forward to seeing Gulfsands embrace these to fulfil its potential in the coming years.”

Ireland’s largest managed cloud services provider, eir evo, selects HPE GreenLake to modernize its private cloud

23 March 2023

Hewlett Packard Enterprise announced that eir evo, the largest managed cloud services provider in Ireland, has selected the HPE GreenLake edge-to-cloud platform to enhance the cloud services offering for its private cloud platform, Digital Planet. HPE GreenLake will enable Digital Planet to meet increasing demand, accelerate deployment of new services and improve overall customer experience for its private cloud offering.

Eir evo has operations and data centers located in Dublin as well as the UK and US and is one of two HPE Platinum Partners in Ireland. The managed services provider offers an extensive portfolio of services to help customers embrace new technologies across cloud, cybersecurity, networking, infrastructure, connectivity, and more. This portfolio leverages the full range of HPE GreenLake cloud services, making eir evo a leading HPE service provider partner.

“As a HPE Platinum Partner we have a deep understanding of deploying a technology and business platform, therefore it was clear that HPE GreenLake would be the optimal fit to futureproof our Digital Planet solution,” said Martin Wells, managing director, eir evo. “In

recent years sustainability has come into sharp focus for us and our customers. A key advantage is the modern cloud experience of HPE GreenLake that delivers service flexibility and choice, and the pay-per-use as-a-service model. These features help us manage costs and carbon footprint as they prevent overprovisioning and provide insights into energy consumption, which, in times of soaring energy costs and the global climate crisis, is critical.”

As a leader in the provision of cloud services, eir evo constantly strives to provide the highest levels of service quality while continuing to innovate. Its Digital Planet platform offers secure and compliant enterprise-class cloud hosting and IT managed services, and as more and more customers join the platform eir evo must modernize the infrastructure and software it is built upon. The system upgrade to HPE GreenLake facilitates the anticipated increase in workloads and data as well as performance growth, while allowing the team to implement changes more quickly to satisfy customer needs.

Providing a wide range of security solutions and complying with strict data privacy regulations, that are important in the European Union like GDPR, requires eir evo to prioritize developing its services on systems with the highest standards of security. HPE GreenLake is a zero-trust enabled architecture that delivers embedded security technologies and verifies the integrity of data infrastructures, more easily ensuring security and compliance. To guarantee minimum data loss and downtime for the platform, eir evo combines these capabilities with HPE Zerto, a solution for journal-based continuous data protection and recovery, delivering high-end security orchestration for all its cloud services.

“It is terrific to see one of our leading HPE partners include HPE GreenLake and deploy it in their own private cloud environment at the same time,” said Ray McGann, Ireland managing director, HPE. “With this modernization eir evo will have a highly flexible cloud platform that enables them to scale as they grow. This, together with a fixed pricing model, will allow the Digital Planet team to match their costs to revenue, providing improved predictability, visibility, and control, while investing more in the continued development of new solutions and services for their customers.”

Jaguar Land Rover partners with Tata Technologies to accelerate the digital transformation of its industrial operations

14 March 2023

Jaguar Land Rover is partnering with Tata Technologies, the global engineering, product development and digital services company, to accelerate the digital transformation of Jaguar Land Rover’s industrial strategy. The first phase will include UK core production facilities, with solutions subsequently deployed to other global locations.

- The collaboration with Tata Technologies will enable Jaguar Land Rover to deliver its modern luxury vehicles and experiences faster, using advanced digital technologies.
- Partnership with Tata Technologies is the key driver of Jaguar Land Rover’s fully connected, digital industrial strategy.

- Tata Technologies will implement cloud-based Enterprise Resource Planning (ERP) software solutions that will revolutionize operations for employees and suppliers, delivering advanced interfaces, increased efficiency, and enhanced collaboration.
- Further example of the development of strategic relationships with the wider Tata Group as part of *Reimagine* strategy.

Tata Technologies will deliver end-to-end integrated Enterprise Resource Planning (ERP) to transform Jaguar Land Rover's manufacturing, logistics, supply chain, finance and purchasing modules by bringing data and knowledge from multiple departments into one single source.

The intuitive new user interface of Tata Technologies award-winning software will drive stability in operations, improving visibility both between teams and for suppliers. The net result for the company will be a more agile, faster-to-market capability for new vehicles.

ERP is key to streamlining and consolidating information across core business areas. Creating a dedicated home for data and management processes across departments is fundamental to the transformation of how a business functions. ERP systems are also capable of aggregating, storing and interpreting data to provide insights instantly, helping companies respond to issues, challenges and opportunities in an agile and timely manner.

The agreement furthers Jaguar Land Rover's alignment with the Tata Group of companies as part of its *Reimagine* strategy. Tata Technologies brings more than 30 years of experience in product and digital engineering, with a global network of over 11,000 employees and clients across multiple countries.

Speaking on the collaboration, Barbara Bergmeier, Executive Director of Industrial Operations, Jaguar Land Rover, commented:

"The partnership with Tata Technologies will allow us to accelerate the transformation of our core ERP infrastructure to deliver the efficiency and usability we require for the future and our transformation objectives. It also demonstrates the power of being part of the Tata Group to help us to achieve targets for our supply chain and wider industrial operations."

Warren Harris, MD and CEO, Tata Technologies, commented:

"The ERP transformation collaboration with Jaguar Land Rover is another milestone in a nearly two-decade relationship with Tata Technologies. The trust awarded by Jaguar Land Rover reaffirms our long-standing expertise in automotive engineering and digital solution offerings. We believe this collaboration will help Jaguar Land Rover to build innovative and sustainable vehicles and achieve faster time to market using new-age digital technologies. We are delighted to strengthen our existing engagement with Jaguar Land Rover and are fully committed to deploying our digital engineering capabilities and assisting with the launch of their new generation of vehicles."

Anthony Battle, Chief Digital & Information Officer, Jaguar Land Rover, commented:

"Jaguar Land Rover's digital transformation will play a pivotal role in the business becoming more agile as part of *Reimagine* and fulfilling its potential as a tech leader. As part of our Digital

2024 programme, we are transitioning to a cloud-native digital landscape and the partnership with Tata Technologies enables us to take another important step on that journey.”

In addition to establishing a standard operating model, Tata Technologies will integrate SAP S/4 HANA and SAP BTP with the existing software to upgrade Jaguar Land Rover’s architecture as part of the company’s digital transformation strategy. The SAP S/4 HANA software package represents a shift from legacy ERP solutions to a modern cloud-based system, driving operational efficiencies and stability.

JVCKENWOOD Selects Oracle Cloud ERP to Transform Finance Operations

16 March 2023

JVCKENWOOD Corporation (JVCKENWOOD), a leading video, audio and telecommunications manufacturer in Japan, has implemented Oracle Fusion Cloud Enterprise Resource Planning (ERP), including Oracle Fusion Cloud Enterprise Performance Management (EPM), to help simplify and standardize financial planning and analysis, increase productivity, reduce costs and improve controls.

Founded in 2008 after the merger between two leading electronics brands, JVCKENWOOD aims to provide audio visual products, services, and solutions that provide excitement and peace of mind to customers. The merger resulted in multiple legacy business systems with manual processes and complicated interfaces, which made it increasingly difficult for the management team to gain fast and accurate insights. To improve business visibility and enhance decision-making, JVCKENWOOD decided to consolidate financial processes by modernizing on Oracle Cloud ERP.

“We have been working on a company-wide digital transformation to enhance operational processes, increase employee productivity, and maximize our business margin,” said Yoshio Sonoda, director, managing executive officer, chief technology officer, chief information security officer, JVCKENWOOD Corporation. “Oracle Cloud ERP enables us to standardize and automate our finance processes on a single platform and provides us with the visibility and intelligence needed for more strategic decision-making.”

With Oracle Cloud ERP, JVCKENWOOD can consolidate multiple systems onto a single integrated finance platform and eliminate manual processes to help increase productivity, help reduce costs, and improve controls. Additionally, JVCKENWOOD can drive accurate, connected plans, and leverage predictive intelligence, scenario modeling, and built-in best practices to better navigate uncertainty across its business.

“With a strong track record for providing market-leading solutions and extensive experience building trust and operating in the Japanese market, Oracle is well-positioned to help JVCKENWOOD increase efficiencies and realize a faster time to value,” said Hiroyuki Yoshinami, vice president, Cloud Applications, Oracle Japan. “With Oracle Cloud ERP, JVCKENWOOD can improve productivity, drive continuous innovation and more effectively deliver the trusted products and services its customers have come to expect.”

This implementation was led by Oracle Japan's Consulting Team and IBM Japan Ltd.

LOGIA WMS controls new sorting system at DKI Logistics

20 March 2023

DKI Logistics is a third-party logistics- and warehouse hotel (3PL) headquartered in Horsens. The company wanted to streamline receiving and emptying of containers and the following handling of the goods.

To meet the customers' needs, DKI Logistics has invested in a new and big sorting system which is managed by the warehouse management system LOGIA. The sorting system is 6.000 square meters and is equipped with three container feeds. The three feeds have a capacity of 1500 cartons in an hour and can empty three containers at the same time.

Each container entails one or more purchase orders which describe the container's content and can also in advance have specific sales orders attached for direct delivery or sorting. When containers are registered on arrival, LOGIA prioritizes the order in which they must be emptied, based on existing sales orders.

The containers are emptied by using a conveyor belt and transported directly to the 100-meter-long sorting facility, via the rail system. From here, the goods are sorted and shipped in one operation for inbound/outbound palletizing or directly to transport-specific shipping discharge via the system's 78 chutes.

The sorting system has six locations reserved for Value Added Service-operations (VAS) for orders, that demand extra handling. The goods are sorted to relevant VAS stations, and after finalization, the goods continue to the rail system and further into the sorting system for final sorting and shipping.

LOGIA delivers all data about completed handlings (sorting, VAS, shipment, etc.) to the ERP system. Here, the data can be utilized for statistics and as a basis for customer calculation.

DKI Logistics went live with the LOGIA solution in December of 2022. At the turn of the year, the company became a part of the German logistics giant, Rhenus Logistics.

MobileDrive builds next generation autonomous driving systems with Siemens' digital twin technology

20 March 2023

Siemens Digital Industries Software announced that MobileDrive has adopted a model-based systems engineering (MBSE) approach to support its Advanced Driver Assistance Systems (ADAS) development, using the Siemens Xcelerator portfolio and its comprehensive digital twin technology. By leveraging Siemens' robust expertise in the digital thread, MobileDrive has accelerated its progress to build the next-generation autonomous driving systems and helped to achieve the industry-leading quality of the products.

Founded in 2021 as a joint venture between two mobility technology leaders, FIH Mobile and Stellantis, MobileDrive is focused on developing infotainment, telematics and a cloud service platform, together with ancillary hardware and software. Combining exceptional innovation capabilities with over 15 years software/hardware integration experience, MobileDrive is the

first company in Taiwan capable of providing complete in-vehicle solutions with cutting-edge AI technology.

Aiming to deliver the highest quality software to meet market demands in a time-to-market manner, MobileDrive's primary interest was to use a model-based framework to develop the algorithms and software controls for common and advanced ADAS applications, such as Lane Keep Assist (LKA), Emergency Lane Keeping (ELK), Lane Following Control (LFC), Auto Lane Change (ALC), Emergency Steering Assist (ESA), and Autonomous Emergency Steering (AES).

To help the organization achieve its goals, Siemens' Simcenter™ Engineering and Consulting services team worked with MobileDrive to deliver a complete methodology and roadmap for its ADAS vision while developing the control algorithms and building a detailed scenario-based system model including sensors and vehicle dynamics, based on market led full vehicle requirements using the Siemens Xcelerator portfolio of software and services.

This systems model was then applied to virtual test environment allowing the MobileDrive team to observe vehicles as a true digital twin to quickly uncover and address both system and software performance issues earlier in the development cycle.

Ultimately, MobileDrive realized a more effective and reliable software development process before a physical prototype was even built. This was due to their newfound ability to verify ADAS software features early in the digital twin environment, reducing the effort of hardware-in-the-loop (HiL) and vehicle testing.

"The automotive industry is undergoing major transformations to better satisfy the needs of users in diverse scenarios and enable a more intuitive, seamless in-vehicle user experience and we have established the key sophisticated technologies and actively collaborated with reliable partners," said Winston Hsu, CTO at MobileDrive. "Thanks to our collaboration with Siemens, we are able to bring our products to market in a much more streamlined, efficient manner."

MobileDrive has successfully delivered products combining security, personalization, and reliability to automakers and has also been awarded ISO 26262 for automotive functional safety, helping to improve the driving safety of vehicles.

Nortegas Spain Taps DXC Technology to Deliver SAP Modernization

16 March 2023

DXC Technology has announced that Spanish gas distribution company Nortegas has awarded it a contract to modernize its business applications and transform its IT systems.

As part of a transformation aimed at streamlining processes and reducing costs, DXC will assess Nortegas's SAP system landscape, identify opportunities for innovation, and deliver improvements to customer experience.

With more than 8,100 kilometers of natural gas and LPG distribution networks, Nortegas serves more than one million customers in the Basque Country, Asturias, and Cantabria regions of Spain.

As part of the contract, DXC will use AI to increase robotic process automation, helping Nortegas to more rapidly detect and resolve IT issues and incidents across the business.

Nortegas will benefit from DXC's 35+ years of SAP experience with 15,000+ SAP professionals worldwide offering deep industry expertise and agile project management methodologies.

"The contract with Nortegas is based on a 360-degree service model that will allow us to demonstrate our expertise in the management and development of SAP systems especially in the manufacturing industry", said Manuel Acosta, head of SAP at DXC Technology Iberia. "Helping implement the latest project management methodologies, we will optimize and automate Nortegas's IT systems, improving customer experience while reducing costs."

NVIDIA Chooses Oracle Cloud Infrastructure for AI Services

21 March 2023

Oracle has extended its collaboration with NVIDIA to include running strategic NVIDIA AI applications on the new Oracle Cloud Infrastructure (OCI) Supercluster™. NVIDIA has selected OCI as the first hyperscale cloud provider to offer NVIDIA DGX Cloud™, an AI supercomputing service, at massive scale. In addition, NVIDIA is running NVIDIA AI Foundations, its new generative AI cloud services, which are available through DGX Cloud, on OCI.

"OCI is the first platform to offer an AI supercomputer at scale to thousands of customers across every industry. This is a critical capability as more and more organizations require computing resources for their unique AI use cases. To support this demand, we continue to expand our work with NVIDIA," said Clay Magouyrk, executive vice president, Oracle Cloud Infrastructure.

"The limitless opportunities for AI-driven innovation are helping transform virtually every business. NVIDIA's collaboration with Oracle Cloud Infrastructure puts the extraordinary supercomputing performance of NVIDIA's accelerated computing platform within reach of every enterprise," said Manuvir Das, vice president of enterprise computing, NVIDIA.

OCI's New Supercluster

NVIDIA DGX Cloud and the NVIDIA AI Foundations services that run on it leverage OCI's unique Supercluster which was certified by NVIDIA to ensure it meets the high standards of DGX Cloud.

OCI's Supercluster includes OCI Compute Bare Metal, an ultra-low latency RoCE cluster based on NVIDIA networking, and a choice of HPC storage. It has been deployed and validated by NVIDIA to support thousands of OCI Compute Bare Metal instances that can efficiently process massively parallel applications. OCI Supercluster networking can now scale up to 4,096 OCI Compute Bare Metal instances with 32,768 A100 GPUs. OCI Compute Bare Metal instances with NVIDIA H100 GPUs are now in limited availability.

Additionally, NVIDIA announced that Oracle is adding NVIDIA BlueField-3 DPUs to its networking stack.

Generative AI Services for Building Custom Enterprise Models

NVIDIA AI Foundations model-making services span language, images, video and 3D, as well as biology. Enterprises can use the NVIDIA NeMo™ language service and the NVIDIA Picasso image, video and 3D services to build proprietary, domain-specific, generative AI applications for intelligent chat and customer support, professional content creation, digital simulation and more. For biology AI model training and inference, the NVIDIA BioNeMo™ cloud service offers tools to quickly customize and deploy generative AI applications.

On OCI, custom models built with NVIDIA AI Foundations and model families like GPT-3 benefit from the OCI Supercluster, which includes purpose-built RDMA networking that delivers near line rate performance with microsecond latency and eliminates blocking issues for RDMA-dependent workloads.

PERI chooses BricsCAD® to streamline project flow

20 March 2023

Hexagon announced that PERI, one of the leading manufacturers and suppliers of formwork and scaffolding systems, has selected BricsCAD® as its preferred CAD (Computer-Aided Design) solution for scaffolding and formwork projects and the associated 3D planning work.

BricsCAD, built by Bricsys®, part of technology giant Hexagon, supports 2D, 3D, BIM (Building Information Modeling) and mechanical features and workflows on one platform. It also supports the extension of the platform on a modular & reusable way, to increase efficiency in formwork & scaffolding engineering. On top this supports PERI's MultiCAD approach for its customers.

PERI chose BricsCAD to enable efficient 3D design and collaboration within the AEC (Architecture, Engineering and Construction) industry. To combine collaboration & efficiency, an open BIM approach is essential to PERI. Another key consideration in solution selection was the future potential of the platform and partnership between Hexagon & PERI.

"BricsCAD will allow us to implement our customer projects in an efficient and collaborative way based on a strong CAD platform empowered by a strong partnership between PERI and Hexagon," said Adnan Djulsic, Team Lead CAD & Statics Solutions at PERI.

"We will transfer the way we work today into a more productive environment by choosing BricsCAD. It helps us ensure a seamless transition to keep the performance of our engineering high during the change process and leverage efficiencies once the change has taken place," said Karl-Heinz Soukup, Team Lead CAD Standards & Support.

PERI will use BricsCAD Ultimate and Communicator for BricsCAD as its main CAD solutions worldwide, with approximately 1,500 global users. Additionally, the company will develop a new version of its CAD tool, called PERI CAD, on top of BricsCAD. The Hexagon solutions fulfill the core CAD needs of PERI in one package and allow additional extensions to increase formwork and scaffold engineering efficiency. They will also help make the implementation and change effort manageable for PERI in a reasonable time.

Reyn Spooner Says Aloha to Digital Transformation of Product Development with Centric PLM

21 March 2023

Centric Software®, the Product Lifecycle Management (PLM) market leader, is pleased to announce that Reyn Spooner, the Hawaiian shirt company, has selected Centric PLM® for their business. 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, consumer electronics, cosmetics, food & beverage and luxury to achieve strategic and operational digital transformation goals.

Founded in 1956 in Honolulu, Hawaii, Reyn Spooner is the maker of classic Aloha shirts, swimwear, accessories, men's, kids' and women's clothing. The company also licenses sports team clothing from entities like MLB and NCAA. With its flagship retail store in Honolulu and others on different Hawaiian Islands, the apparel is also sold wholesale, and via Reyn Spooner's e-commerce site.

The company is looking to shore up its digital foundation. VP of Marketing and Merchandising at Reyn Spooner, Jeff Emmons says, "Much of our data management is in Excel. There is currently no central source of truth for product, no one location for anyone to go to see what's going on. We have data in ERP, but not everyone has access. So, the production team does their part and works with the vendors and materials—that information is stored somewhere. The design team works on prints, fabrics, colorways and stores their information someplace else." The production team went to Emmons with a request for a solution to manage product development and the 1000s of active SKUs the company manufactures. Having joined the company in mid-2022, Emmons says, "One of my primary responsibilities is to try to put some structure in place, to get some organization, to create the central source of truth, to put systems in place that will allow us to better manage the business. PLM was the natural starting point to help with the design and production process of development."

The search for PLM vendors turned up many offerings. The selection was narrowed down to those that had expertise in fashion. Emmons cites reasons for choosing Centric PLM. "I love the interface which is very user friendly. Our team is familiar with tables and then you can export information into tables, so it feels somewhat familiar. That was a large driver of it." The Centric team also instilled confidence. Says Emmons, "[Our account manager] was very responsive and so knowledgeable. And when he couldn't answer a question, he immediately brought in people that could." Another factor in the decision was the value that the small to medium businesses (SMB) option brings. "We're getting decades of experience and knowledge, great software, but at a fraction of the cost. It also gets us up and running relatively quickly, which is what we need."

Implementation is currently underway. The expected benefits include better collaboration among teams, more successful launches of seasons, and to give the sales department tools to help them with the selling process. Emmons says, "Sales can create line sheets for themselves. They can pull the assets, the CADs and other information into a document to share with customers." Having one digital location to check where a product is in the development process is another benefit. "We can see that the reason an item is delayed is because it hasn't got the

approval from the vendor. Working under such a tight timeline, a week or two can really affect the production calendar. And so, having visibility to these things allows us to stay on top of it to make sure that we're following up when needed," Emmons explains. The vendor portal and ERP integration are also on the docket for activation.

President and CEO of Centric Software, Chris Groves says, "It is an honor to be chosen by the iconic apparel company, Reyn Spooner, whose shirts have withstood the test of time. We are happy to be a part of their future success and are looking forward to our continued association. We can't wait to see what the company does next."

Sandwell Council collaborates with Infosys to provide free digital learning platforms for residents, colleges, and schools

17 March 2023

Infosys, a global leader in next-generation digital services and consulting, announced a partnership with Sandwell Council to launch its Springboard digital learning platform in the region, making it available to Sandwell residents, colleges and schools.

Springboard is Infosys' flagship digital learning platform designed to empower people, communities, and society with skills to be successful in the 21st century. The platform features content spanning digital learning, emerging technologies, and life skills, and is led by a team of experts through collaborations with curriculum partners, non-profits, and a global network of leading educational institutions.

Infosys Springboard will help Sandwell residents acquire new skills and increase employability, supporting individuals, communities, and businesses alike. In particular, it aims to:

- Be available to everyone for free to help increase digital literacy across the board and ensure nobody is left behind.
- Support digitally engaged communities and makes devices and digital assets available to those who cannot afford them.
- Help entrepreneurs realise their ideas or small and medium sized businesses improve their services through digital efforts.

This program builds on Infosys' work with local councils across the UK. In 2021 Infosys deployed Springboard in collaboration with Brent Council, which, during the pandemic, witnessed the number of unemployment claimants aged 18 to 49 in Brent treble. So far, over 48,000 Brent residents have registered and are actively using Infosys Springboard.

Councillor Simon Hackett, Cabinet Member for Children and Education, Sandwell Council, said: "Springboard is a fantastic opportunity for Sandwell residents. The opportunity to work alongside a multi-national organisation like Infosys, will equip our enterprises such as, schools, colleges and training providers with the tools needed to increase digital accessibility and help achieve higher aspirations. It will also enable our residents to access a wealth of opportunities for future careers and gain greater prosperity for Sandwell."

Thirumala Arohi, Senior Vice President and Head – Education, Training and Assessment, Infosys, said: “Upskilling and reskilling is part of our DNA at Infosys, and we couldn’t be happier to be collaborating with Sandwell Council on this important project. Ensuring equitable access to digital education is central to achieving a digitally engaged community and I certainly look forward to seeing what residents go on to achieve as a result.”

Simulations Plus Enters Partnership to Apply AI/ML Technologies to Design Novel Compounds

15 March 2023

Simulations Plus, Inc., a leading provider of modeling and simulation software and services for pharmaceutical safety and efficacy, announced that it entered into a collaborative research agreement with the Institute of Medical Biology of the Polish Academy of Sciences (IMB PAS) to jointly design new compounds for the ROR γ /ROR γ T nuclear receptors using its cutting-edge artificial intelligence (AI) / machine learning (ML) technology in the ADMET Predictor[®] software platform.

Per the terms of the collaboration, Simulations Plus will deploy the AIDD Module in ADMET Predictor[®] to create predictive models of inhibition and activation for the human ROR γ /ROR γ T nuclear receptors. The computational and medicinal chemists at Simulations Plus will then interact with researchers at the IMB PAS to define the multi-objective parameters against which the lead molecule(s) will be optimized. The generative chemistry approaches within the AIDD Module will produce novel libraries of virtual compounds with desired combinations of the properties chosen, and the IMB PAS will synthesize and test promising analogs. Emerging intellectual property, in the form of encouraging lead compounds, will be jointly owned by Simulations Plus and IMB PAS for further development opportunities.

“Many organizations continue to explore the use of AI algorithms to complement the drug design and lead optimization process with human interaction,” said Dr. Rafal Bachorz, Senior Cheminformatics Scientist II at Simulations Plus and project lead. “We are excited to work with the IMB PAS to apply our cheminformatic toolkits with the AIDD Module to generate novel chemical matter for the human ROR γ /ROR γ T nuclear receptors.”

“Simulations Plus is an organization that has the AI-based drug discovery technology and computational/medicinal chemistry skills which are unique in a partner,” added Professor Jarosław Dziadek, director of the IMB PAS. “Our goal is to combine our expertise with ROR γ /ROR γ T receptor biology, which many pharmaceutical companies are targeting as it may be involved in the progression of certain types of cancer, and relevant assays of receptor activity with all that Simulations Plus offers to accelerate the design and optimization of novel lead molecules.”

John DiBella, SLP Division President, said: “This collaboration is another in a long line of ‘win-win’ situations, although this time with a twist. Both Simulations Plus and the IMB PAS will be making meaningful contributions in areas where each organization is strongest, and we will share equally the promising outcomes which are generated. We are highly motivated to explore where this will take us in terms of identifying the next generation of compounds that could help

in the treatment of cancer. Simulations Plus continues to invite future collaborations which benefit organizations and, most importantly, the global communities we serve.”

Touchplan and The Boldt Company Extend Enterprise Agreement

21 March 2023

Touchplan, an award-winning collaborative construction planning software technology platform that helps make construction project outcomes more predictable and profitable, and The Boldt Company announced that they have renewed a definitive enterprise-wide agreement.

The deal provides the Wisconsin-based construction firm and its selected subcontractor partners unlimited use of Touchplan’s intuitive software platform on all its construction projects. Along with collaboration capabilities that link the master schedule to the daily plan anywhere and anytime, Touchplan provides unique jobsite data and analytics across all Boldt projects via its planning software platform and through its API capabilities, increasing overall project efficiency for one of the nation’s leading employee-owned, professional construction services firms.

Started in 1889 by Martin Boldt, Boldt has grown to over 3,000 employees with 18 offices across the country. The company focuses on nine core markets: healthcare, industrial and manufacturing, power & energy, automotive, education, commercial, food and beverage, science & technology, and pulp and paper,

With annual revenues exceeding \$1 billion, Engineering News-Record ranks the firm as the 96th largest construction company in the United States.

“Touchplan is an essential part of our tech stack as it removes many of the pains that can arise in construction planning while fostering collaboration and communication and enhancing safety,” said Nick Loughrin, Corporate Director of Project Delivery Services at Boldt. “Continuing to use Touchplan was an easy decision as it continues to save time and money on our construction projects.”

Touchplan is the construction industry’s most experienced and innovative daily project planning and analytics platform. To date, it has been trusted by over 59,000 design and construction professionals around the world on over 4,600 projects to optimize over \$93 Billion in construction costs.

“We are thrilled to continue our working relationship with Boldt as they continue to enhance their construction operations by utilizing Touchplan’s construction planning software to improve their overall project success,” said Touchplan Chief Revenue Officer Jimmy Suppelsa. “Using planning and collaboration technology on construction projects is more prominent than ever, and Touchplan is proven to align projects, keeping them on schedule and under budget.”

Product News

Graphisoft's Archicad Collaborate makes leading BIM technology more accessible through new subscription offering

21 March 2023

Graphisoft, the leading Building Information Modeling (BIM) software solutions developer for architecture and engineering, today introduced Archicad Collaborate. This subscription-based offer combines award-winning Archicad for architectural design with BIMcloud SaaS for fast, efficient, secure access to shared projects in real-time — all at an affordable price point.

Unlike other BIM software providers that charge additional fees for cloud services, Archicad Collaborate lowers the barrier to entry by offering award-winning BIMcloud SaaS as part of the Archicad subscription price in the user-friendly online Graphisoft Store. "Customers demand powerful solutions that are easy to acquire, learn, and use," said Márton Kiss, Vice President of Product Success at Graphisoft. "Archicad Collaborate allows practices to acquire both Archicad and BIMcloud SaaS at a price even smaller firms can afford."

Archicad Collaborate includes:

- **Archicad**— a robust design solution with a world-renowned user-friendly interface that makes it the most efficient and intuitive BIM software on the market.
- **BIMcloud Software as a Service** — users access their data via a secure cloud solution for fast, flexible, secure access to shared projects in real time.
- Exclusive data and collaboration services that maximize the value of the subscription, including access to **Graphisoft Learn** courses and training materials; emergency licenses and technical support; **Redshift by Maxon**, a high-end rendering tool; **PARAM-O**, a parametric object design tool; the **Library Part Maker** add-on for creating detailed Library objects; and **Python API** for customized and automated Archicad workflows.

When asked about the benefits of using Archicad with BIMcloud SaaS, Peter Snellman, Partner and Design Director at Tillberg Design, said, "Working on the same Archicad model from different countries, we have fewer problems."

"With Archicad Collaborate, you can start your project on BIMcloud SaaS, a secure cloud platform built for sharing and collaborating with your team — without additional hardware investments or IT experience," Márton Kiss added. "Using Archicad's powerful and proven tools, you can design great buildings with your team and share them with customers and clients — anywhere in the world."

HCLTech Launches Automated Legacy Platform Modernization Solution On AWS Solution Consulting Space

21 March 2023

HCLTech, a leading global technology company, announced the launch of its Automated Technology Modernization Accelerator (ATMA), an automated code transpiler that significantly accelerates the modernization of legacy programs.

The automated modernization solution helps enterprises significantly reduce dependencies on application subject matter experts for transition from legacy platforms. The deployment can lead to reduction of up to 70% in effort and modernization costs while delivering high-quality applications on the latest technology stacks with consistent design patterns, coding and architecture standards.

The solution is available on the AWS Solution Consulting Offers for purchase and deployment.

"The full value of legacy modernization comes from approaching it not as one-off tactical decisions but as part of a holistic strategy to enable digital transformation at scale," said Shyam Enjeti, Executive Vice President, Digital Business Services, HCLTech. "At HCLTech, we have invested heavily in building a comprehensive suite of products to aid automated IT modernization and also refined the right operating models, adaptive and collaborative workforce strategies and a robust partner ecosystem to help our clients derive maximum return on investments from their modernization initiatives."

HCLTech's all-inclusive and customer-focused solutions, coupled with AWS Ecosystem's practices of transformative business models, are designed to meet their clients' complex and ever-changing needs. Advancing the methods of automated legacy platform modernization, HCLTech and AWS will continue to increase the adoption of the network's consulting offerings.

"HCLTech and AWS experts work together to innovate and bring together the best frameworks and practices to drive business transformation through modern ways of working and rapid delivery," said Prabhakar Appana, Head of HCLTech's AWS Ecosystem Business Unit. "ATMA is an incredible strategic cloud offering, designed to enable businesses to pivot from their current legacy platforms."

HCLTech and AWS Partnership

HCLTech is an AWS Premier Consulting Partner with a dedicated full stack Business Unit, which provides end-to-end roadmaps to enterprise clients for adopting AWS at scale. HCLTech also holds Migration, DevOps, SAP, Storage and Mainframe Modernization Competencies in addition to being an MSP Partner. HCLTech is uniquely positioned to help enterprises, both as a global system integrator (GSI) and an independent software vendor (ISV), with a cloud-focused ecosystem and product innovation strategy.

As a long-time member of the AWS Partner Network, HCLTech is a trusted partner that utilizes the latest AWS Well-Architected Framework to develop custom-tailored solutions for enterprises across sectors.

HCLTech Launches Metafinity To Help Enterprises Unlock The Potential Of Metaverse

21 March 2023

HCLTech, a leading global technology company, announced the launch of its latest digital innovation, HCLTech Metafinity, to enable enterprises to build exciting use cases in the metaverse and delight customers with real-time, immersive experiences.

“HCLTech is consistently investing in developing augmented reality and virtual reality through digital platforms, data, cloud and internet of things (IoT) services. HCLTech Metafinity was born out of the need to provide expertise and accelerated development capabilities to enterprises at a time when industry reception to the metaverse is high and new use cases are constantly being explored,” said Anand Birje, President, Digital Business Services, HCLTech.

HCLTech Metafinity focuses on industrialized use cases for the financial services, retail and consumer packaged goods, high-tech, telecom, manufacturing and life sciences and healthcare verticals. It delivers domain-centric capabilities on metaverse platforms and other industry-proven platforms such as SAP and Salesforce.

The new metaverse solution uses HCLTech’s blockchain platform called COTRUST™ and Blockchain Tokenization Framework (OBOL) as the underlying decentralized capability to deliver an end-to-end metaverse capabilities for enterprise needs. This allows backend integrations ranging from blockchain, cloud, data and artificial intelligence. It will help to create a completely new virtual world, an intersection of different digital technology disciplines such as human interface, blockchain NFTs, 3D content creation, etc. under one umbrella platform.

HCLTech Metafinity is built on HCLTech XRStudio platform that leverages Adobe’s suite of marketing and web analytics products. Through smaller details like look-alike avatars, it smartly bridges the gap between the physical and virtual realms. HCLTech Metafinity leverages Adobe Target, Adobe Experience Manager and Adobe Commerce to give marketers opportunities to reuse their marketing technology stack to deliver brand messaging, personalized experiences and campaigns on emerging digital channels like metaverse. It opens up new opportunities to interact with customers in a more personalized, immersive way.

“HCLTech is poised to provide the technical know-how to help our clients envision and realize unprecedented experiences for their customers. It is the latest output from our long-standing partnership with Adobe and together we will continue to bring innovative solutions to the table.” added Anand Birje.

Informatica Launches UAE Region's First Intelligent Data Management Cloud

15 March 2023

Informatica, an enterprise cloud data management leader, launched its Intelligent Data Management Cloud™ (IDMC) in the Middle East, a first for the region. The investment includes establishing a new Point of Delivery (PoD) in Abu Dhabi, United Arab Emirates. The PoD further

solidifies Informatica's presence in the Middle East and reflects its commitment to support local, scalable cloud-first data management services.

The investment underpins Informatica's commitment to the UAE government's vision. Last October, during GITEX Global, Informatica signed a multi-year, strategic framework agreement with Abu Dhabi Digital Authority (ADDA) to support its Data Enablement Program to offer data management services to government entities in Abu Dhabi. This aims to transform Abu Dhabi into a data-driven state to drive economic growth and accelerate the digital economy across the Emirate. With a regional PoD, Informatica can better support local partners and organizations with its cloud data management platform in line with local regulations.

Commenting on the announcement, Jitesh Ghai, Chief Product Officer, Informatica said: "With the launch of our first IDMC Pod in the Middle East, Informatica and its regional partners will enable customers to unlock the value of their data while ensuring that it remains secure, well-governed, and in the region if necessary. This region astounds with the speed and capacity for growth it consistently displays, and to that end, we look forward to supporting the UAE government's strategic goals and vision related to data democracy."

The Informatica IDMC is a comprehensive cloud-native data management platform that enables enterprises to visualize, analyze and collaborate with their data regardless of location or platform. Powered by Claire, the company's AI platform, IDMC helps organizations accelerate innovation and increase productivity at scale. With the launch of the UAE PoD, customers can enjoy the full breadth of services including the Cloud Data Marketplace, designed to intuitively increase data sharing, improve productivity and enable organizations to make more informed decisions.

Materialise Empowers Control of the 3D Printing Process

20 March 2023

Materialise, a global leader in 3D printing software and service solutions, announced its Process Control software for metal 3D printing and introduced the Build Processor Software Development Kit (BP SDK). The new solutions enable additive manufacturing (AM) users to take full control of the 3D printing process by using automated quality control and customizing their 3D printer parameters.

AM service providers are being challenged to meet growing demands and expectations in terms of part quality and competitive pricing. A key element of this task is to monitor and control the 3D printing process. However, AM users are missing the right tools and suffer from failed builds, hidden defects inside of their parts, and standard 3D printing parameters that don't support their AM applications. This wastes machine time, material, and post-processing capacity, leading to unnecessary costs.

One step ahead with automated quality control

Materialise Process Control enables manufacturers to introduce quality control using data gathered during the 3D printing process. By analyzing and correlating layer data from the 3D printing process, users can identify defective parts before they are sent to post-processing and

quality inspection, which can account for 30 percent to 70 percent of a part's total manufacturing cost. Analyzing the layer data also enables users to find the root cause of defects faster, allowing them to optimize the process and adapt their 3D printing parameters. Early scrap detection and root cause analysis help lower the cost per part by reducing both scrap rates and expensive quality control efforts during post-processing.

"Materialise Process Control uses artificial intelligence to automate quality control, helping our customers save significant time and money," said Bart Van der Schueren, CTO of Materialise. "Through collaborations with partners like Phase3D and Sigma Additive Solutions, AM users benefit from a technology-agnostic innovation that offers unparalleled insights into their 3D printing process for continuous improvement."

As most 3D-printed parts are made of thousands of layers, manually analyzing them is time-intensive and prone to human error. Materialise Process Control automates the process, providing workers additional time to improve the AM process. It uses artificial intelligence to examine 2D images of the powder bed taken during the 3D printing process. Materialise collaborated with Phase3D and Sigma Additive Solutions, Inc. (NASDAQ:SASI) to integrate complementary data and to provide deep insights into the 3D printing process. Phase3D technology adds height mapping, a form of topographic layer data, and Sigma Additive Solutions provides thermal data from the melt pool, the area of the melted material during the metal 3D printing process.

Materialise Process Control is available as part of CO-AM, Materialise's end-to-end software platform for 3D printing, and as a standalone software solution. As an open software solution, partners will be able to add their software and monitoring technology.

Optimizing the 3D printing process

A Build Processor (BP) connects 3D printers with software for data preparation, such as Materialise Magics. It manages 3D printer-specific information and enables users to influence build parameters, which influence how fast a 3D print job is done and determine part properties such as density and surface quality. Suboptimal build parameters increase the cost per part by causing long build jobs, high efforts during post-processing, and high scrap rates.

"More and more AM users want to scale up their activities and serve the demand of quality end-part manufacturing. Very often the standard build parameters of a 3D printer don't match their needs," shared Karel Brans, Senior Director Partnerships at Materialise. "They are looking for ways to improve the machine utilization rate and achieve consistent quality. With a BP developed for a specific use case, you can push productivity and quality to a whole new level."

However, until now it was very difficult to create BPs or adapt them for specific applications. The BP SDK offers an agile way to achieve that. Machine vendors and manufacturing companies with R&D capacities can use the development platform as a toolkit on their own, rely on Materialise's AM expertise, or choose a collaborative approach. Using proven BP technology, they can shorten the product development cycle, integrate their own APIs, and generate new intellectual property. This open development process supports collaboration and can drive the diversification and optimization of BPs.

The BP SDK offers AM users the opportunity to deploy BPs tailored to their needs. A tailored BP applies print parameters hitting the sweet spot of cost-efficiency and part quality for an AM application. It allows users to manufacture complex parts and mass-produce identical or customized products with consistent quality, decreased scrap rate, and shortened lead times. Optimizing the 3D printing process will help to make more AM use cases sustainable and drive industrial adoption of the technology. Build Processors co-developed with the BP SDK provide full connectivity to CO-AM and Materialise Magics.

New in Autodesk Construction Cloud: 50+ of the Latest Product Releases

21 March 2023

At Autodesk, we want to empower our customers with the right tools they need to embrace and excel in a changing environment. It's the reason we are always adding more enhancements and new features across our products. To help you keep up with all the new product changes, we've compiled all the latest and greatest updates across Autodesk Construction Cloud products including Autodesk Construction Cloud platform, Autodesk Build, Autodesk BIM Collaborate, Autodesk Takeoff, BuildingConnected, ProEst, Assemble, and BIM 360.

Autodesk Construction Cloud Unified Platform

**=features on both Autodesk Construction Cloud unified platform & BIM 360*

AutoSpecs in Autodesk Construction Cloud – Construction Operations Bundle customers can leverage AutoSpecs in Autodesk Construction Cloud to automatically generate comprehensive submittal logs, compare specification versions, and identify potentially missing submittal requirements. This saves time, dollars, and helps to mitigate risk.

Admin Console | Role Management [Coming Soon] – On web, account admins can view and manage a list of roles available in their account through the new Roles tool in Account Admin within Autodesk Construction Cloud projects. Account admins can also add new roles, remove existing roles, and update the default access level associated with a role. In project admin, admins can also manage project members and their roles in the Members table, with the new ability to customize the columns.

Bridge | Revit Cloud Worksharing – On web, members can link cloud models from Revit to their Autodesk Construction Cloud account via Bridge, helping to bring different teams together to ensure they are working with the right data.

Dashboards | My Home [Coming Soon] – Now on the Autodesk Construction Cloud main webpage, all members now have access to a personalized user-centric dashboard that provides cross-project view with actionable insights. Members can customize their dashboard to include Assigned to Me, Recent Items, My Projects, Bookmarks, and approved Partner cards.

Data Connector | Schedule Data – Members on web can now access their Schedule data from Autodesk Construction Cloud as a part of Data Connector extracts and link it to their BI dashboards for analytics. This schedule metadata includes revisions, activities, milestones, plus all their related detailed information; dependencies between activities; comments; and suggested edits.

Data Connector | Activity Data (Public Beta) – Now available in the Data Connector API, members can access Activities as a new data schema, providing activity data on their Docs-specific workflows, as well as Issues, Account Administration, and Project Administration.

Files | Revit File Upload Indicator – Now available on web, members can easily distinguish which Revit files were published from Revit desktop application to Autodesk Docs, versus from Desktop Connector or directly uploaded to web.

Files | Save and Rerun Search in Files – On web, members can save, edit, and rerun search criteria in Files. Members can search by keywords, all filters (including customer attributes), other settings, and which folders to search.

Markups | Copy/Paste Markups (Web) – On web, members can use keyboard shortcuts or menu options to copy and paste standard and photo markups on a sheet and 2D file. Members can choose to copy and paste onto the same sheet or copy from one sheet and paste to another sheet in the project.

Markups | Polygon Improvements – On web, members can experience an improved polygon and polyline editing workflow with the new ability to add and remove vertices simply by double-clicking on a line to add a vertex and double-clicking on a vertex circle to remove.

Product Experience | Filter Project List on Home page – On the Autodesk Construction Cloud main webpage, members can now filter their project list within their account. In the filter panel, members can narrow their project list by project type and project created dates.

Product Experience | Improved Product Links on Home page – On the Autodesk Construction Cloud main webpage, members now see an improved UI enhancement to their product links as well as new access links to Account Admin and Executive Insight (if member has access).

Reports | Allow Non-admins to Schedule – On web, project members can now save their reports to Templates and schedule reports, enabling members with the flexibility they need to do more with their reports.

Reviews | Copy Markups with Approved Files – Within a review, project admins can choose to have markups copied alongside approved files. Project admins can also defer the decision responsibility to the approver. The final approver decides on all existing reviews.

Reviews | Export Files from a Review* – Autodesk Docs and BIM 360 Docs members, who have download permission, can select and export PDF files from a review and include markups to export. *Please note: the ability to batch export is not available for BIM 360 Docs.*

Reviews | Improved Copy Error Handling* – When submitting and copying a final review, the approver now sees a new error handling workflow for failed copies.

Autodesk Build

**=features in both Autodesk Build & BIM 360*

Submittals | Allow Reopening Unreviewed Items – Users are able to reopen Submittal items that were closed before being fully reviewed.

Submittals | Reports Improvements –Users are able to customize their exported submittal reports in the items list and the item details page by deciding what option to include in their reports. (i.e. Photos, References, Embed attachments, etc...)

API | Forms API – C/U/D – The Forms C/U/D API will allow external clients to integrate with our system to create, update, and delete Form data.

Cost Management | Home Page Reviews Chart* – Within the Homepage, a new In Review chart displays items in review for custom approval workflows. Users can quickly see all current active workflows, item links, review step, reviewer, and due date; this helps to increase accountability and ensure nothing slips through the cracks.

Forms | Template Builder Update [Coming Soon] – Create flexible review workflows and get approvals faster with the Forms Template Builder Update. When creating a form template, Autodesk Build members will be able to require an optional ‘In Review’ step and assign a Person, Role or Company to approve with a signature or send back with comments. Forms terminology is updated to reflect workflow actions, and closed forms without review will be able to be reopened by managers.

Forms | Form Description Column – Create descriptive forms. The Forms Description Column update will add a column in the Forms web view that displays the forms description.

Issues | Due Dates in Issue Templates – Assign deadlines to issue templates within projects. Now, members can create issues created with default due dates within projects.

Issues | Manage Fields in Issue Detail Report – Bring focus to important information within issue reports. With Manage Fields in Issue Detail Report, teams can select what fields are displayed, and the order they’re shown, in issue detail and summary reports.

Product Experience | Partial Download for Photos – On mobile, members can perform a partial of their photos when syncing their projects instead of a full download. Members can choose to download photos from the last 7 days, 14 days, 30 days, and 60 days.

RFIs | Create RFIs from Markups on Mobile – While on Sheets, users are able to create new RFIs from markups on mobile along with adding links to existing RFIs.

Schedule | Suggestion Summary Excel Report – Schedule suggestions help improve communication, ensuring any required schedule adjustments can be made quickly to keep projects on track. Users can now filter the suggestions table as needed and export them to Excel, further extending the use of the suggestions made and their status.

Schedule | Microsoft Project Custom Attributes Support – When importing schedules from Microsoft Project, users now have access to custom attributes within their schedule. Custom attributes are also available while filtering the schedule and the attribute columns can be toggled on and off for easier consumption while in list view.

Sheets | Filter by Locations and Disciplines (Mobile) – Members on mobile have an improved filtering experience for their sheets, with the new ability to filter by locations and disciplines.

This new capability allows field teams to narrow the scope of their search to focus on the data they truly need.

Autodesk BIM Collaborate

**=features in both Autodesk BIM Collaborate and BIM 360*

Coordination | Turn Off Clash in Coordination Spaces* [Coming Soon] – Users now have more control over their coordination workflows with the ability to turn off automatic clash detection when creating new coordination spaces. Giving BIM Managers the ability to load and access models in Autodesk BIM Collaborate for processes such as model aggregation, collaboration, constructability review, and issues creation while still leveraging the control and granularity of Navisworks' clash capabilities.

Coordination | Issues Tool* [Coming Soon] – Autodesk BIM Collaborate users now have access to Issues tool easily accessible through the side tool panel. Previously, issues only surfaced in the clashes tool. This promotes easier access to any issues created in the coordination spaces regardless of whether they were created in Model Coordination, Navisworks or Autodesk Docs. *Note: Does not include issues created in 2D or in Design Collaboration.*

Coordination | Publish Models to Field General Availability – Users can easily create custom views and share refined project models directly from Autodesk BIM Collaborate to field stakeholders on mobile by publishing to folders in Autodesk Docs. Previously, this feature was available through open beta. Additional enhancements include the ability to create custom snapshot names, easier surfacing of functionality on the views page and special character handling notifications when saving snapshots.

Coordination | Revit Issues Add-in Panel Enhancements – Users can now @ mention a specific user, company, or role in the Revit Issues add-in panel comments section. The issues panel in Revit now has access to 2D issues created in Autodesk Construction Cloud. They can also easily refresh the panel. Further enhancing usability, project administrators can now navigate directly to the Coordination space in Model Coordination from Revit.

Coordination | NWF Files [Coming Soon] | With the upcoming release of Navisworks 2024, views created on desktop or the web will be saved as NWF files. This file type allows for multi-user access to the same file, making it easy to have multiple users working in parallel with one another.

Autodesk Takeoff

Takeoff | PDF Export Enhancements – Adding further capabilities to the PDF export functionality in Autodesk Takeoff, users can now export multi-page PDF with takeoff and legend. This allows users to save and share information with internal and external stakeholders that may not have access to Autodesk Takeoff in a more efficient manner.

Takeoff | Takeoff Legend Enhancements – Users can hide takeoff quantities in the legend when exporting to PDF, giving more control over what information is included in the export for external consumption.

BuildingConnected

BC Pro

Bid Management | BC Pro and Autodesk Docs Integration [Coming Soon] – By integrating with Autodesk Docs, BuildingConnected Pro shares a single source of truth to manage important documents across the project lifecycle.

BC Pro and Bid Board Pro

Bid Management | BuildingConnected API Improvements – The BuildingConnected API is now available on the Autodesk Platform Services, supporting connections across multiple applications and products. Virtually all BC Pro and Bid Board Pro data is available in the API.

Bid Management | New Product Picker – For users that have logged in with Autodesk ID, there is a new product picker at the top left of the screen. This enables teams to switch to other Autodesk Construction Cloud products, such as TradeTapp or Autodesk Docs.

Bid Management | New Industrialized Construction Keywords –GCs and subs can find contractors in the Industrialized Construction market with new keywords.

TradeTapp

Qualification | New Product Picker – For users that have logged in with Autodesk ID, there is a new product picker at the top left of the screen. This enables teams to switch to BuildingConnected or Autodesk Construction Cloud projects.

ProEst

Move/copy with Assign Option [Coming Soon] – On each estimate, selected items can be copied and/or moved (reassigned) to a different sort type.

New Page and Estimate Table [Coming Soon] – An estimate table can be repeated based on a selected grouping without having to duplicate and copy information over. A new table and new page option can be selected to print the repeated table on a new page.

Custom Formulas in Estimate Table [Coming Soon] – Create custom formulas as a column in the Estimate Table.

New Formatting for Notes on Sort Types [Coming Soon] – When entering notes on sort types, a pop-up window appears for easier note taking and formatting. Includes format tools like bullet points, font format, and more.

Assemble

Assemble | 3D View Selection during Cloud Publishing [Coming Soon] – Users with Autodesk Docs and BIM 360 Docs are already able to publish Revit models to Assemble without the need of using a Revit Add-in. Continuing to further improve the cloud publishing workflow, users now have the ability to select a specific 3D view or a phase they prefer prior to publishing.

BIM 360

**=features on both Autodesk Construction Cloud unified platform & BIM 360*

Checklists | Checklist Sync Error [Coming Soon] Understand errors in critical workflows like capturing and syncing data from the field. Whether due to connection, incorrect permissions, or a problem with a checklist signature, items and checklists may not sync properly. Through the Checklist Sync Error feature update, BIM 360 app users can now understand why a checklist or item may not have been properly synced and, in some cases, learn how to correct it.

Daily Logs | Detail Report [Coming Soon] – Develop better project insight through the Daily Logs detail report. Non-admins with access to Field Management can now create a Daily Log Detail report from within the Daily Logs module. View project, weather, and labor information without permission restrictions to increase team collaboration and efficiency.

Reviews | Export Files From a Review* – Autodesk Docs and BIM 360 Docs members, who have download permission, can select and export PDF files from a review and include markups to export. *Please note: the ability to batch export is not available for BIM 360 Docs.*

Reviews | Improved Copy Error Handling* – When submitting and copying a final review, the approver now sees a new error handling workflow for failed copies.

New Kennametal Tool Library Available for Mastercam

21 March 2023

CNC Software, LLC, developers of Mastercam, the world's leading CAD/CAM software, has collaborated with Kennametal, a global technology leader and provider of metal cutting tools and solutions, to provide customers with the ability to access tooling data for Kennametal brand drills and solid carbide end mills directly in the Mastercam tool library on their Tech Exchange.

Mastercam developers worked closely with Kennametal to enable users to import data on their most versatile and high-performance cutting tools, including G0drill™ and Kenna Universal™ solid carbide drills and a selection of HARVI™ and KOR™ end mills directly into Mastercam. The integration allows Mastercam customers to save significant time searching for desired tools and building tool assemblies.

“We are excited to offer these high-performance drills and endmills from Kennametal in a native Mastercam tool library format and make it available to our user base of over 300,000,” said Stas Mylek, Partnership Program Manager, CNC Software, LLC. “The collaborative effort between both companies provides Mastercam users easy and integrated access to the latest cutting tools from Kennametal,” Mylek continued.

Mastercam's Maintained users can download the cutting tool libraries from the Mastercam Tech Exchange portal on their website. The native Mastercam tool database is fully compatible with Mastercam 2022 and the latest Mastercam 2023 release.

“The integration of our tooling data within Mastercam's library digitizes Kennametal innovation and productivity, making it easier for customers to identify tooling requirements, build machining strategies, and ultimately purchase our tools,” said Eddie McBarnet, Vice President Marketing, Kennametal. “Our digital tooling data, in combination with the powerful Mastercam

software, will enable hundreds of thousands of customers to quickly find solutions to their toughest machining challenges and be more productive and efficient using Kennametal tooling.

New MATLAB Test Empowers Engineers and Researchers to Develop, Execute, Measure, and Manage Dynamic Tests in MATLAB Code at Scale

21 March 2023

MathWorks unveiled Release 2023a (R2023a) of the MATLAB® and Simulink® product families today. R2023a introduces two new products and enhanced features that allow engineers and researchers to develop, execute, manage, test, verify, and document their MATLAB code projects.

MATLAB Test™ enables engineers and researchers to develop, execute, measure, and manage dynamic tests of MATLAB code at scale. The new product helps organize and manage projects' tests and results by enabling organizations to group, save, and run custom test suites. To optimize productivity, engineers and researchers can identify untested code paths using industry-standard code coverage metrics, such as condition, decision, and modified condition/decision coverage (MC/DC). MATLAB Test users can also use the product's project-based quality dashboard to create an interactive, graphical summary of code quality metrics and clickable details for code analysis, code coverage, test results, and requirements to raise the visibility of code readiness to an intuitive summary level.

R2023a also features the new C2000 Microcontroller Blockset™ that designs, simulates, and implements applications for Texas Instruments C2000™ microcontrollers. The blockset enables engineers and researchers to model digital power conversion and motor control applications. The product also includes peripheral blocks, such as digital IO, ADC, and ePWM, to perform simulations of control algorithms that require ADC-PWM synchronization in industrial and automotive applications using C2000 motor control units (MCUs).

"R2023a's new products are designed for engineers and researchers who must build safety critical systems efficiently," said MathWorks Director of Product Marketing David Rich. "Our customers will experience increased quality and automation within their DevOps workflows using these new products and enhanced features."

R2023a also includes major updates to popular MATLAB and Simulink tools, including:

- Aerospace Blockset™ provides Simulink reference examples and blocks for modeling, simulating, and analyzing high-fidelity aircraft, rotorcraft, and spacecraft platforms. The blockset includes vehicle dynamics, validated models of the flight environment, and blocks for pilot behavior, actuator dynamics, and propulsion.
- Communications Toolbox™ provides algorithms and apps for the analysis, design, end-to-end simulation, and verification of communications systems. Toolbox algorithms include channel coding, modulation, multi-input multi-output (MIMO), and orthogonal frequency division multiplexing (OFDM), enabling engineers and researchers to compose and simulate a physical layer model of their standard-based or custom-designed wireless communications system.

- Powertrain Blockset™ provides preassembled automotive vehicle reference applications for engineers and researchers using Model-Based Design for gasoline, diesel, hybrid, fuel cell, and battery electric propulsion systems. The product includes a component library for engines, traction motors, batteries, transmissions, tires, driver models, and component and supervisory controllers.
- Vehicle Dynamics Blockset™ provides preassembled automotive vehicle dynamics reference applications for passenger cars, trucks, and two-wheelers. The blockset includes a component library for propulsion, steering, suspension, vehicle body, brakes, tires, driver models, and component and supervisory controllers.

OpenText ValueEdge23 increases speed-to-value for application development and delivery organizations in the OpenText Cloud

21 March 2023

OpenText launched the latest version of ValueEdge -- an innovative modular, cloud-based DevOps and value stream management (VSM) platform. ValueEdge23 includes new capabilities that build on the platform's existing functionality, enabling chief technology officers (CTOs) to accelerate speed-to-value eliminating the typical waiting, wasting and wondering in the development process.

"In the world of digital, every company is becoming a software company but lacking the resources to get it done," said Muhi Majzoub, EVP and Chief Product Officer at OpenText. "ValueEdge23 is a platform and suite of DevOps tools to help businesses automate the whole digital value chain to get a smarter application to market faster. We are breaking new ground in the DevOps space, enabling organizations to develop and deliver software the right way."

ValueEdge23 improves speed-to-value by increasing the flow of high-value change from development to production, where it earns money for the company, transforms customer experiences and improves competitiveness. It does this by making flow-metrics visible from across a digital value stream (DVS), enabling total quality through innovations in functional testing and performance engineering, streamlining the strategic planning process for use with agile development and integrating toolchains across the DVS, including continuous integration and continuous delivery (CI/CD).

ValueEdge was first launched in March 2022 and already has quickly caught the attention of customers and industry analysts being named a *Strong Performer in *The Forrester Wave™: Value Stream Management.

"OpenText's application testing and real-world Performance Engineering capabilities have been crucial for us at Discount Tire. I am excited about where OpenText is going with ValueEdge, their cloud-based DevOps and VSM platform. It will put that real-world Performance Engineering together with other breakthrough capabilities across the Digital Value Stream, all to accelerate the flow of value from demand to delivery," said Gary Desai, EVP & CIO, Discount Tire.

ValueEdge23's major new capabilities include:

- **Strategic planning for an agile world** - powered by the new ValueEdge Strategy module and ValueEdge Agile, this capability is designed for the continuous planning process demanded by today's agile development organizations. It features portfolio management and visualization, along with powerful investment prioritization capabilities and seamless integration to agile management.
- **Codeless quality** - powered by ValueEdge Functional Test, allows formerly manual testers to codelessly create automation and keep it resilient, meeting the CTO's need for greater test coverage.
- **Real-world performance engineering** - delivered by ValueEdge Performance and the other solutions in the Micro Focus LoadRunner family of software testing products, enables applications to be performance engineered, starting early in their lifecycle and anticipate real-world stresses. This is done by infusing performance engineering into the DevOps pipeline, including new Smart Analytics to provide insight into application change impacts in real-time and by modeling the true nature of the application under load.

The ValueEdge23 cloud-based platform also includes system services, analytics and dashboards and serves as a platform for a full complement of optional Acceleration Modules, such as ValueEdge Strategy and ValueEdge Functional Test. Pricing is available upon request.

PAS Cyber Integrity® 7.3 optimizes organizations' approach to operational, security and compliance risk-reduction

23 March 2023

Hexagon's Asset Lifecycle Intelligence division announced the availability of PAS Cyber Integrity 7.3 a new software version for comprehending and resolving safety, security and compliance risk that is visualized in the customer's preferred context.

Cyber Integrity 7.3 is unique in the marketplace for its ability to identify, analyze and score organizational risk across domains, enabling owner operators to focus their OT security investments on the activities that reduce the most risk. The new version of Cyber Integrity differs from competitors' offerings by:

- Delivering an enterprise-wide, holistic image of multiple risk domains with a clear understanding of vulnerabilities and enhanced risk-based decision-making
- Utilizing proprietary risk scoring to rapidly identify risks in the environment of greatest concern while simultaneously considering the vulnerabilities and patching level of various assets
- Precisely identifying systems at risk of penetration or exploit and providing meaningful and actionable data regarding risk level, vulnerabilities for remediation and the associated patches and upgrade paths providing the highest value

- Prioritizing risk-reducing and vulnerability remediation activities that shrink the attack surface and quickly providing paths that reduce the greatest risk, with the least amount of effort

Cyber Integrity 7.3 is designed to enable customers to assess risk utilizing a proprietary risk scoring method to visualize and comprehend risk within the industrial facility in their own context.

"This is an industry first for visualizing and comprehending OT cyber security organizational risks in context," said Scott Plunkett, Senior Product Owner, Cyber Integrity. "PAS Cyber Integrity 7.3 provides a proprietary risk-scoring capability, customized to an organization's specific requirements while simultaneously delivering the industry's best situational awareness and rapid remediation of vulnerabilities.

"It's incredibly important to include not just vulnerability and temporal risk, but also a customer's own considerable understanding of the impact factors in their environment," said Nick Cappi, Vice President, OT/ICS Cybersecurity Portfolio. "With this release, that once complex calculus becomes much easier, providing direction for customers by rapidly uncovering the most critical issues, easily prioritizing those problems and offering automated selection of the most efficacious route to remediation."

There are no pricing changes for the new version as this is the continuing evolution of the PAS Cyber Integrity product.

Hexagon empowers your Smart Digital Reality™, a unified, role-based, real-time view of the physical and digital realities across your project and asset portfolio. Hexagon accelerates the digital maturity of your industrial assets, operations, maintenance and security processes to enable improved operational integrity and performance, transforming industrial facilities into more autonomous and sustainable Digital Assets that achieve greater balance with our environment and humanity.

Process Mining: CONTACT develops industry solutions for data-based process optimization

20 March 2023

Inefficient processes are central time and cost drivers for every company. Process mining allows data-based analysis of business processes, for example using digital log files, and the identification of potential for optimization in the operations. While process mining is already being used successfully in many industries such as online retailing, the manufacturing industry often lacks the large data volumes (Big Data) required for this.

"The manufacturing industry is usually faced with a high number of customer- and product-specific variants. As a result, many processes are not repeated frequently enough, so the amount of comparable data is quite small," explains Christian Stürmer of CONTACT Research. "There is also a lack of required resources in the form of business process management (BPM) to process the results and use them profitably." CONTACT Software is a technology partner in the running joint project Business Process Mining for the Analysis and Prescription of Industrial

Core Processes (BPM-I4.0), in which experts from science and industry are working together on solutions for a broad industrial application of process mining. Participants include the Software Innovation Campus Paderborn (SICP), the University of Paderborn, the Fraunhofer Institute for Mechatronic Design (IEM), and the companies GEA Westfalia Separator and Weidmüller Interface GmbH & Co. Project Management Jülich is in charge of the project, SICP leads the consortium.

The project team designs new digital tools, methods, and algorithms to integrate the required additional data into process mining. These are being applied and validated in a practical manner along the product creation process at Weidmüller and the order fulfillment process at GEA. Further developed CONTACT Elements modules for live process control via KPI systems and for data anonymization provide a holistic picture of the processes. The evaluation using machine learning aims to make weak points transparent and identify relevant fields of application for optimizing the core processes.

CONTACT will use the results to make process mining available as an integral part of its low-code platform CONTACT Elements in the future. " This gives customers the opportunity to flexibly exploit the benefits of predictive process optimization and increase their competitiveness," says Stürmer. In addition to the technical side, the establishment of a central BPM office is another key objective of the project. This provides all the necessary methods, training, and instructions for preparing and analyzing the data, as well as implementing suitable measures to permanently anchor process mining in the organization.

In a webcast on the research project, the participants provide practical insights into the approach for the development, implementation, and evaluation of the process mining methods.

Procore Launches Construction Insurance Brokerage to Empower Builders

21 March 2023

Procore Technologies, Inc., a leading global provider of construction management software, announced its latest offering, Procore Risk Advisors, which will simplify and improve one of the construction industry's biggest challenges: insurance. Procore Risk Advisors is a modern construction brokerage offering enhanced insurance solutions, including exclusive A+ rated insurance programs in partnership with Allianz Global Corporate & Specialty and Swiss Re.

"For the past two decades, Procore's vision has been to improve the lives of everyone in construction, and Procore Risk Advisors helps us further this vision by modernizing the construction insurance space," said Tooy Courtemanche, Founder, President and CEO of Procore. "Bringing everyone in construction onto a global platform has clear benefits: better communication, less rework, and safer projects—all of which helps mitigate risk. It also means construction decision makers around the globe are generating a tremendous amount of data that they can leverage to enhance insurance underwriting decisions helping to mitigate their risk."

Procore Risk Advisors rewards Procore customers for their risk mitigation and technology adoption by leveraging data-based insights from Procore's construction platform to help drive the insurance terms, pricing, and capacity customers have earned.

“Procore’s technology platform captures data on multiple aspects of a construction project, from field to office,” explained Paul Lyandres, President of Fintech at Procore. “Procore Risk Advisors combines construction expertise, real-time data insights, and technology to unlock better insurance and surety outcomes for builders.”

Procore Risk Advisors combines:

- Exclusive capacity: In-house underwriting programs with rapid quote times backed by A+ rated carriers.
- Improved terms: Procore aims to help clients secure more favorable terms by leveraging data-driven insights from the Procore platform.
- Construction expertise: Expert risk partner with experience mitigating risk with technology and an App Marketplace with more than 400 partners.

“Procore Risk Advisors combined phenomenal construction risk expertise with the unique ability to use data to represent our superior operational efficiency, risk management, and financial controls,” said Casey French, CEO of Clark Construction Inc. “This resulted in drastically improved terms, making us more competitive. The executive team feels safe and secure with Procore as our partner.”

pSeven 6.44 Release

21 March 2023

DATADVANCE development team announces the release of pSeven 6.44, a new version of our platform for data analysis and optimization. Take a look what's new in the release below.

New Features

- The new SimInTech block (beta) enables integrating SimInTech projects and project packages into pSeven workflows to apply optimization and other design space exploration techniques to them. Note that using the SimInTech block requires an updated license file for pSeven 6.44.

Updates and Changes

- Predictive modeling:
Updated the implementation of output noise variance for the GP technique, thus improving the quality of GP models trained with that feature enabled.
- Design space exploration block:
The block now uses an updated implementation of the mixed-integer solver, aimed at improving performance and stability in certain optimization and Adaptive design tasks with linear responses and discrete variables.

The pSeven 6.44 release also includes other bugfixes — please check the release changelog for a full list. You can also contact us to get more information and pSeven updates.

Release Announcement of CADdoctor for Autodesk Moldflow EX9.1

17 March 2023

Elysium has released CADdoctor for Autodesk Moldflow EX9.1.

Key Enhancement

Added Windows 11 to supported OS

Added Support for the Latest CAD Versions

| Import Options | Versions added in EX9.1 | Supported Versions |
|-----------------|-------------------------|-----------------------------|
| NX | NX 2206 Series | UG10 – NX 2206 Series |
| Creo Parametric | Creo Parametric 9.0 | 2000i – Creo Parametric 9.0 |
| Parasolid | V34.1 | V7 – V34.1 |
| ACIS | R32 | R6 – R32 |
| JT | v10.7 | v6.4 – v10.7 |

SAP Intelligent Robotic Process Automation – What’s New 2304

24 March 2023

Eshita Mahajan of SAP announced on the SAP blog the new release of SAP Intelligent Robotic Process Automation. She says, “You’ll discover about the new SAP Intelligent Robotic Process Automation Cloud Component updates including design-time API trigger, job distribution filtering using Agent Attributes, simplified DOX Template creation process, automation traces usability improvements, support oAuth2 authentication for SMTP and many more functionalities.” Read the full post here: <https://blogs.sap.com/2023/03/24/sap-intelligent-robotic-process-automation-whats-new-2304/>

Tango Brings Real Estate Strategy Expertise to Corporate Real Estate with the Release of Portfolio Strategy Solution

21 March 2023

Tango, the leading provider of Integrated Workplace Management Systems (IWMS) and Store Lifecycle Management (SLM) solutions, announced the launch of Tango Portfolio Strategy, a

new solution that enables companies to rapidly explore strategic corporate real estate options, including assessing related impacts on space, employees and costs.

The workplace has fundamentally shifted and continues to evolve. As companies evaluate their workplace, a comprehensive understanding of their real estate portfolio—and the impact of changes—is critical. With Tango Portfolio Strategy, companies can easily access key workplace data in a single view to ensure their evolving real estate portfolio strategy supports their immediate and longer-term departmental, business unit and organizational requirements.

As a result of hybrid work and an ever-evolving workforce, corporate real estate strategy is being compressed into shorter lifecycles that require more agility. Over the last 15 years Tango has provided solutions that drive real estate strategy for some of the largest retail and restaurant companies in the world.

“With Tango Portfolio Strategy, we are bringing that expertise to corporate real estate to help companies adapt to a rapidly changing workplace while protecting the bottom-line”, said Pranav Tyagi, Tango’s President & CEO. “In today’s environment, CRE leaders need more sophisticated tools to formulate winning strategies, an area where Tango has excelled. We are excited to bring this new capability to the corporate real estate market.”

Tango Portfolio Strategy provides immediate portfolio analysis capabilities with minimal effort and data. Portfolio and lease information enables robust scenario planning and impact analysis.

With Tango Portfolio Strategy decision-makers will be able to:

- **Identify baseline KPIs** and better understand seat and square foot requirements, including vacant, occupied, and thresholds for each building and floor.
- **Forecast occupancy costs**, such as cost per occupied seat, square feet per occupied seat, vacancy, growth or contraction rates, and inflation.
- **Conduct what-if analysis** by manipulating dedicated space vs. flex, hotel, and shiftwork while visualizing the difference between existing and proposed capacity and seats.
- **Evaluate an unlimited number of portfolio scenarios** across floors, buildings and geographies, including lease renewals and options, divestitures, sublets, major or minor uplifts, and more.
- **Model the impact of different strategies** on KPIs such as total occupancy costs, cost per occupied seat, rentable square feet per seat, and cost per rentable square feet, and more.
- **Visualize the future** and see the impacts of various strategies and tactics over the next 5 years.

Tecsys Announces Composable OMS for Frictionless B2C and B2B Commerce

21 March 2023

Tecsys Inc. , an industry-leading supply chain management and omnichannel commerce software company, announced its fully composable Order Management System (OMS), a headless order management system built with robust APIs and an optimized front end designed to integrate into retailers' existing back-end systems.

"Shopping is no longer a linear activity, but a web of interrelated events that take place in both the virtual and physical world, united by timely and accurate data. This evolving complexity of sales channels and customer touchpoints adds to the cost of doing business, and we wanted to solve for that," says Martin Schryburt, vice president of Research and Development at Tecsys. "The powerful API backbone of Tecsys' composable OMS allows for quick and valuable out-of-the-box OMS functionality that can serve as an integrated solution or headless order management engine, both tuned to the complexities of frictionless omnichannel commerce."

By decoupling the Omni™ OMS front end and back end through composable architecture, Tecsys customers are able to optimize their omnichannel tech stack with a flexible platform that can accommodate every use case, legacy ecosystem and business model, and unlock business value, including:

- A complete out-of-the-box OMS designed for frictionless commerce that is equipped with advanced capabilities and is highly configurable, providing reliable up-to-the-second inventory visibility.
- Headless architecture that can integrate into a retailer's existing front-end systems and enable new sales channels, including traditional and emerging marketplaces.
- An optimized front-end interface that enables high-touch customer service management and efficient store fulfillment within an intuitive and device-agnostic environment that can be integrated with existing systems.

This modular approach enables retailers and brands to leverage Tecsys' best-of-breed solution for each unique business need as the organization composes its broader tech stack strategy.

"The ultimate goal of this innovation is to help retailers be more flexible in how they leverage the full potential of omnichannel commerce, no matter which systems they have in place right now," explains Guy Courtin, vice president of Industry and Advanced Technology at Tecsys. "We're making it quite easy for retailers to plug in the Tecsys system where and how it makes sense in their existing business operations. This lets them very quickly turn on real-time inventory visibility and orchestration across physical stores, online commerce and digital marketplaces. It breaks down the data silos and allows for a truly fluid shopping and order fulfillment experience, both for the consumer and the retailer."

The composable Omni™ OMS is architected to deliver the industry's fastest ROI, help retailers achieve an enterprise-class frictionless commerce experience, and give those retailers ownership of their future omnichannel capabilities.

Tecsys Democratizes Digital Twins in the Warehouse with Click-of-a-Button Functionality

20 March 2023

Tecsys Inc., an industry-leading supply chain management software company, launched an innovative Digital Twin 3D Heat Map, the industry's first no-code, out-of-the-box 3D representation of the warehouse. This highly customizable analytics solution allows end users to visualize and optimize key warehouse operations. Unlike other warehouse digital twin solutions in the market, Tecsys' Digital Twin 3D Heat Map does not require custom code or lengthy services engagements; rather, it automatically maps warehouse data to a 3D representation of the warehouse floor and enables customers to track pick and replenishment operations by navigating the warehouse on their PC or mobile device.

Optimizing warehouse operations is a common challenge for many organizations due to the abundance of data available and the difficulties in presenting it in a way that is both easy to understand and actionable. With this innovative digital twin solution from Tecsys, Elite™ WMS users are now able to address this challenge head-on by visualizing warehouse data and identifying areas of high interactivity where there are opportunities to improve workflows and throughput.

This new embedded composable dashboard connects directly with Elite™ WMS, which provides system drill-down capabilities. This gives organizations the ability to track and monitor performance metrics, as well as make layout adjustments using an intuitive drag-and-drop interface. The mobile-friendly solution makes for an easy-to-use and dynamic user experience.

"We are very excited to launch our Digital Twin 3D Heat Map solution, which is a game changer for warehouse operations," says Chris McPherson, director of Analytics at Tecsys. "This is an adaptable and interactive solution that provides our customers critical insights and the ability to track key performance metrics. It empowers them to make informed decisions to drive efficiencies in labor and operations."

Tecsys' Digital Twin 3D Heat Map solution is backward compatible with multiple versions of the Elite™ WMS product, which allows both new and legacy customers to leverage the benefits of this new analytics solution. The digital twin representation can be generated automatically with Elite™ WMS data, a process that usually requires manual input and mapping. By delivering a compatible and visually intuitive tool, Tecsys is unlocking the power of digital twins to any warehouse operator, an innovation no longer reserved for organizations with significant financial resources.

"This is the way we make digital twins in the warehouse accessible and mainstream," explains Vito Calabretta, senior vice president of Global Operations. "Traditional solutions that provide this degree of twinning require massive amounts of custom work by professional service providers. We turned that model upside down so that every organization can tap into the performance benefits of digital twin analytics in the warehouse."

Upchain 23.1 What's New

23 March 2023

Christa Prokos updated the Autodesk Upchain blog to announce a new release of Autodesk Upchain. She also announced changes to the release cycle of Upchain – going from a quarterly release schedule to a progressive rollout.

Read the full blog post here: <https://blogs.autodesk.com/vault/2023/03/upchain-23-1-whats-new/>

Vectorworks Connection to NVIDIA Omniverse Expands Designers' Opportunities in the Metaverse

21 March 2023

Global design and BIM software provider Vectorworks, Inc. has released an integrated Omniverse Connector, providing Windows users a direct connection to the NVIDIA Omniverse platform for building and operating metaverse applications. The new plug-in connects Vectorworks 3D models straight to Omniverse via the Universal Scene Description (USD) framework, eliminating steps for the import/export process, saving designers valuable time and streamlining collaborative processes. Designers can now freely and infinitely iterate on design concepts in real time using high-fidelity models that can be instantly shared with one click.

“The Omniverse Connector opens the door to a new realm of possibilities for our users,” said Vectorworks Chief Executive Officer Dr. Biplab Sarkar. “Designers can access the metaverse to work with colleagues, consultants and clients in new and exciting ways, fostering the potential for groundbreaking, limitless designs. We’re excited to see the bright future this new feature sparks for designers and our software.”

The release of the Vectorworks Omniverse Connector coincides with NVIDIA GTC, the top developer conference for the era of AI and the metaverse, running online through Thursday, March 23.

“The industrial metaverse delivers immense opportunities for everyone, including the many design professionals using Vectorworks,” said Richard Kerris, vice president of the Omniverse development ecosystem at NVIDIA. “The Vectorworks Omniverse Connector presents vast possibilities for these creatives, enabling cutting-edge ways to visualize, simulate and share projects while accelerating 3D workflows and empowering collaboration.”

The plug-in also provides Vectorworks users with new options for viewing and publishing their designs, offering support for various workflows. Users can now launch the Omniverse USD Presenter (formerly Omniverse View) application and send their Vectorworks models in a single step. Additionally, users can publish models to an Omniverse project on a Nucleus Server or export a single USD file as a standalone prop that can be added as an asset in an Omniverse project.

When publishing, users can define geometric detail affecting 3D curved geometry, organize scenes by Vectorworks layers or based on applied textures, and include metadata in exports. Plus, checkpoint comments allow collaborators to easily track changes and send additional information with project files as they are revised and updated.

The Vectorworks Omniverse Connector is included in Vectorworks 2023 Service Pack 4. This Service Pack is a downloadable update for all U.S. English-based versions of Vectorworks 2023, including Vectorworks Architect, Landmark, Spotlight, Fundamentals, Braceworks and ConnectCAD.

VOLTA and modeFRONTIER 2023R1 available now

22 March 2023

modeFRONTIER comes with a new Python Scheduler bridge. VOLTA adds support for Single sign-on (SSO) authentication as an option for centralized management of user accounts across multiple applications.

Design Optimization

New Python Scheduler bridge in modeFRONTIER

The new pyScheduler module in the modeFRONTIER Scheduler wizard lets you import your own Python-based design exploration or optimization algorithm. You can code your algorithm and use it as native scheduler in modeFRONTIER. In this way, you are also able to leverage external Python Scientific and Machine Learning libraries (such as SciPy optimize) within modeFRONTIER to perform design exploration or optimization studies.

Simulation Process Integration and Automation

Guided process: speed up modeFRONTIER workflow automation

modeFRONTIER intuitive drag-and-drop workflow builder now proposes a guided process to simplify all the steps involved in introspecting CAD/CAE models. As a result, the automatic model introspection brings you directly to the Planner environment to define design exploration and optimization studies.

Simulation Data Management

VOLTA supports Single sign-on authentication

Single sign-on (SSO) is a popular authentication process that allows users to access multiple applications with a single set of login credentials. For companies, integration with an SSO, can simplify user management and increase security by ensuring that only authenticated users can access the enterprise applications.

SSO brings lots of benefits for IT administrators. They can set access permissions for users across multiple applications in a single place, making it easier to manage user access and security. In our case, they will manage VOLTA user accounts directly from a centralized enterprise-level SSO provider. Additionally, SSO allows users to manage their identities across multiple applications. Instead of logging into multiple applications multiple times per day, users

log in once for all-day access. It improves their log in experience, saves time and significantly reduces the number of passwords users need to create and remember.

Simulation Data Analytics

Introducing the 3D Model Analyzer in VOLTA Advisor

VOLTA extends its CAE post-processing capabilities on the web. With the newly introduced 3D Model Analyzer, available in VOLTA Advisor, you can now perform a quick initial post-processing of original CAD/CAE models from a web dashboard and share the insights in real-time with stakeholders.

The 3D Model Analyzer comes with these main features:

- **Display the scalar results:** you can display the scalar results of a model and its parts and specify the range of values to show, select the color of values outside the specified range, choose a color scale, and define the number of color legend levels.
- **Create section views:** the cutting planes feature enables you to display a section of your model and view scalar results inside it. Also, you can create multiple cutting planes to section your model and interact with the cutting plane to explore the model.

In future releases, with the 3D Model Analyzer you will also be able to visualize vector results, synchronize a 3D model with the Scatter Bubble chart, create isosurfaces and isovolumes, to name a few.

For all other new features please refer to the release notes included in the software updates.

What's New in OpenBOM March 2023

22 March 2023

Oleg Shilovitsky published an article on the OpenBOM blog describing the newest update to OpenBOM. He says, "In March, we added several highly requested features that make it even easier to manage your BOMs. One of the most exciting additions is the BOM compare (flattened mode) feature, which allows you to quickly and easily compare two BOMs and identify any differences between them. We've also added the ability to export selected revisions, giving you greater control over your data."

Read the full post here: <https://www.openbom.com/blog/whats-new-in-openbom-march-2023>