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CIMdata News

CIMdata to Host a Free Webinar on Transforming your Enterprise Application Architecture

12 July 2022

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces an upcoming free educational webinar, “Transforming your Enterprise Application Architecture.” The webinar will take place on Thursday, 11 August 2022, at 11:00 a.m. (EDT) and last for one hour.

Organizations must identify their process and functional requirements in terms of capabilities and then develop an application map that sets out the domain of specific application areas. CIMdata’s Enterprise Application Architecture™ provides the ability to evaluate, define, and refine an organization’s comprehensive enterprise application architecture to support its digital transformation. The basis for CIMdata’s enterprise architecture is information capabilities defined and directed by the organization’s Business & Technology Platform. In this context, information capabilities are processes and technologies (i.e., functional capabilities) used to perform a business function. This robust solution-neutral model is business-focused, not technology-focused. It covers all the typical information capabilities required by companies that engineer, manufacture, sell, deliver, and/or service products. In this webinar, Peter Bilello, CIMdata’s President & CEO, and Janie Gurley, Data Governance Practice Manager, will demonstrate the capabilities of CIMdata’s robust solution-neutral Enterprise Application Architecture model.

This webinar will help attendees:

- Learn how enterprise application architecture defines and enables digital transformation.
- Learn how to roadmap an enterprise application architecture.
- Use an enterprise application architecture to determine the state of application maturity.
- Learn how to leverage enterprise application architecture to support an organization’s digital transformation journey.

According to Peter Bilello, CIMdata’s President & CEO, “For most companies, their enterprise architecture is a result of multiple disconnected and/or semi-connected initiatives executed over the years, if not decades. Much of this has resulted in a patchwork of enterprise and desktop applications that more reflect a set of mismatched pieces from multiple puzzles. Today’s digital transformation initiatives require a holistic and integrated application approach—one that supports business objectives and maximizes its return on investment. CIMdata’s Enterprise Architecture Application has been developed and refined over the years to support this strategic need.”

This webinar will be useful to a broad audience, including CIOs, executives, directors, and managers responsible for product development; those involved in manufacturing, quality, or data governance; PLM team leaders and their team members; product managers, IT teams, solution providers, and anyone who wants to learn about Enterprise Application Architecture.

To find out more, visit: <https://www.cimdata.com/en/education/educational-webinars/webinar-transforming-your-enterprise-application-architecture-2>. To register for this webinar, please visit: <https://register.gotowebinar.com/register/8932479062703893516>.

Acquisitions

Cadence Completes Acquisition of Future Facilities

15 July 2022

Cadence Design Systems, Inc. announced that it has completed the acquisition of Future Facilities. The addition of Future Facilities technologies and expertise supports the Cadence® Intelligent System Design™ strategy and broadens its multiphysics system analysis and computational fluid dynamics (CFD) portfolios. Future Facilities’ electronics cooling analysis and energy performance optimization solutions for data center design and operations using physics-based 3D digital twins enables leading technology companies to make informed business decisions about data center design, operations and lifecycle management and reduce their carbon footprint. Future Facilities’ proven technologies serve a wide breadth of hyperscale, enterprise data center, managed services and colocation providers, including Hewlett Packard Enterprise, Digital Realty, Equinix and Kao Data.

Cadence to Acquire Future Facilities, A Pioneer in Data Center Digital Twins

11 July 2022

Cadence Design Systems, Inc. announced that it has entered into an agreement to acquire Future Facilities, a leading provider of electronics cooling analysis and energy performance optimization solutions for data center design and operations using physics-based 3D digital twins. The addition of Future Facilities’ technologies and expertise supports the Cadence® Intelligent System Design™ strategy and enables companies to make informed business decisions about data center design, operations and lifecycle management that reduce their carbon footprint.

Future Facilities’ product portfolio includes an electronics thermal solution that augments Cadence’s leading Celsius™ Thermal Solver, as well as innovative computational fluid dynamics (CFD) electronics cooling simulation technology that optimizes the performance and cooling efficiency of power-hungry data centers. Their technology virtualizes the data center ecosystem, creating a 3D digital twin that allows operators to predict, visualize and quantify the impact of any change in the data center prior to implementation and during operations. This allows customers to optimize business goals with facility design and operational efficiencies. Future Facilities’ proven technologies are used by leading hyperscale, enterprise data center, managed services and colocation providers, including Hewlett Packard Enterprise, Digital Realty, Equinix and Kao Data.

Data center design and operation involves a complex supply chain—construction, services, IT and electronics—including the design of efficient domain-specific chips to PCBs to the chillers for cooling. By integrating CFD techniques with a wide range of data center infrastructure management (DCIM) tools and power and cooling modules, Future Facilities simulates the impact of changes in servers on physical capacity, power infrastructure and cooling. This increases uptime and capacity utilization by predicting hotspots before they occur. The solution also improves data center power usage effectiveness (PUE) by eliminating redundant power consumption.

“The global data center market is driving the digital world and is immense with investments upwards of \$200 billion a year,” said Tom Beckley, senior vice president and general manager of the Custom IC & PCB Group at Cadence. “The acquisition of Future Facilities boosts our Fidelity CFD solution with digital twin solutions, including electronics cooling and energy management that helps businesses maximize capacity, improve energy efficiency, reduce costs and mitigate critical infrastructure risk.”

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Future Facilities' 6Sigma Digital Twin simulation and optimization platform lets customers model and analyze the performance of data centers by closely monitoring airflow, heat transfer, cooling, power and capacity. The CFD simulations predict cost profiles and capacity and model improvement options. The addition of Future Facilities' experienced team and proven technologies enables Cadence to provide comprehensive chip, package, PCB and system data center solutions that deliver efficiency gains and power savings and minimize downtime.

“Using advanced CFD brings tremendous benefits when analyzing thermal efficiencies in the data center,” said Hassan Moezzi, founder and CEO of Future Facilities. “We are excited to join the Cadence team and look forward to combining our data center and electronics technology solutions with Cadence’s expertise in Intelligent System Design to further advance performance, sustainability and energy efficiency from chip design to all elements of the data center right up to the chillers that are critical components in data center design and operations.”

The terms of the transaction were not disclosed. The acquisition is expected to be immaterial to revenue and earnings this year and subject to customary closing conditions.

CGC’s Parent Company, JDM Technology Group, Acquires Deneb Software

7 July 2022

JDM Technology Group announced that it has acquired Deneb Software, a leading construction accounting and estimating software company headquartered in Fountain Hills, AZ. JDM is a global group of leading software providers for the architecture, engineering, construction, maintenance, and operations industries. The transaction closed on June 30, 2022, with approval from Deneb’s owner, Ken Lykins.

Deneb Software has been supplying proven construction accounting and estimating software to American construction companies for more than 35 years. Its robust cloud-based solution helps contractors increase profitability and improve efficiency at every stage of the job.

In a statement on the sale, Deneb owner Ken Lykins said, “My business model has always been 100% customer centric, so selling to a family company that also puts people first felt like the right decision.” One of JDM’s core philosophies is not to end of life software, ensuring its customers can always continue using their preferred software.

“We’re pleased to be a part of the next phase of the Deneb software story,” said JDM CEO Jim McFarlane. “The company is a great fit for our global portfolio of construction software companies, and we look forward to putting our industry expertise and global resources to work for the Deneb customers.”

Deneb will join JOBPOWER software, a JDM Technology Group company with decades of experience in the construction software market, based in Knoxville, TN. JOBPOWER president Dee Golden will lead Deneb and oversee day-to-day operations. “I look forward to working with the Deneb team to help contractors get ahead in a competitive construction industry that is always evolving.”

DELTEK REACHES AGREEMENT TO ACQUIRE TIP TECHNOLOGIES

14 July 2022

Deltek, the leading global provider of software and solutions for project-based businesses, announced today that it has entered into an agreement to acquire TIP Technologies – a leading provider of quality, compliance and manufacturing execution solutions. With this acquisition, Deltek will add quality

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management system (QMS) and manufacturing execution system (MES) capabilities to its portfolio of solutions for government contractors, aerospace & defense (A&D) and Engineer to Order (E2O) firms.

Headquartered in Waukesha, Wisconsin, TIP Technologies serves global customers including many firms that are currently using Deltek. Founded in 1989, the company was one of the first to provide integrated quality assurance software using a commercial, off-the-shelf strategy. Now, TIP Technologies is a recognized leader amongst A&D and E2O Manufacturing firms and continues to develop highly respected software used by companies of all sizes, including market leaders such as Qarbon Aerospace.

“We are very excited to announce this new combination of Deltek and TIP Technologies,” said Mike Miller, Founder & CEO of TIP Technologies. “In 1989, this business was started with a specific focus of creating a fully integrated Quality Management System, designed to meet the needs of the complex manufacturing market. Together with our team, we’ve been able to accomplish that and so much more. We already had a robust integration with Deltek Costpoint, as well as other major manufacturing capable ERP vendors, and will continue to do so. By partnering with Deltek, we will be able to deepen our capabilities and provide more value to our customers.”

“For nearly forty years, Deltek has had a relentless focus on government contracting and powering our customers’ success. We’ve had a long-standing partnership with TIP Technologies for many years, and mutual customers who are already benefiting from our close integration. This acquisition is a natural evolution of our partnership, and will create a more effortless way for our customers to get the combined benefits of our collective solutions,” said Deltek’s President and CEO, Mike Corkery. “With Deltek’s industry-leading offerings for accounting, manufacturing and supply chain management and TIP Technologies’ QA and MES expertise, we will provide the best solutions for Engineer to Order manufacturing companies – in addition to continuing partnerships with other ERP providers established by TIP Technologies. We look forward to closing this deal in the coming weeks and welcoming the TIP Technologies team to the Deltek family.”

Under the terms of the agreement, Deltek will acquire the assets of TIP Technologies. The transaction requires certain closing conditions to be met and is expected to close in the third quarter of 2022.

Infosys to Acquire Life Sciences Consulting and Technology Leader, BASE life science

13 July 2022

Infosys a global leader in next-generation digital services and consulting, announced a definitive agreement to acquire BASE life science, a leading technology and consulting firm in the life sciences industry, in Europe. The acquisition reaffirms our commitment to help global life sciences companies realize business value from cloud-first digital platforms and data, to speed-up clinical trials and scale drug development, positively impacting lives and achieving better health outcomes.

BASE brings to Infosys, domain experts with commercial, medical, digital marketing, clinical, regulatory, and quality knowhow. Backed by a team of data science specialists, BASE is at the frontier of the latest technological developments and trends. It has a strong focus on Data & AI, and the ability to bridge and integrate business logic and technology, driving insights for better health outcomes.

Headquartered in Denmark, BASE is one of the fastest growing technology and consulting partners in the life sciences industry. The company has about 200 of the finest, multidisciplinary industry experts across Denmark, Switzerland, UK, Germany, France, Italy, and a nearshore technology hub in Spain. Together with Infosys, BASE will further expand its portfolio of expertise into Consumer Health, Animal Health, MedTech and Genomics segments. BASE collaborates with leading software technology providers in the life sciences industry such as Veeva, IQVIA and Salesforce.

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Ravi Kumar S, President, Infosys, said, “This acquisition augments Infosys’ deep life sciences expertise, and expands our footprint further in the Nordics region and across Europe, and scales our digital transformation capabilities with cloud-based industry solutions. We are excited to welcome BASE life science and its leadership team into the Infosys family.”

“Over the last five years, BASE life science has delivered tremendous growth, and created a stellar life sciences consulting firm in Europe. With Infosys as our catalyst, we will be able to accelerate our expansion internationally and create development opportunities for our people. Infosys is a solid, global technology leader, that is a perfect match for ensuring continuous success of BASE while sharing our common purpose and values.”, said **Martin Woergaard, CEO, BASE life science**.

The acquisition is expected to close during the second quarter of fiscal 2023, subject to customary closing conditions.

Matterport Acquires VHT Studios to Accelerate Adoption of Digital Twins for Real Estate

7 July 2022

Matterport, Inc. (“Matterport”), the leading enterprise and real estate digital twin company driving the digital transformation of the built world, announced the acquisition of VHT, Inc., known as VHT Studios, a U.S.-based real estate marketing company that offers brokerages and agents digital solutions to promote and sell properties. This transaction brings together VHT Studios’ visual media services with the immersive Matterport 3D Digital Twin platform to elevate the buying experience for home buyers while simplifying the process of creating comprehensive marketing packages for brokers and agents. With this acquisition, Matterport aims to increase adoption of digital twin technology and expand further into the real estate industry while adding marketing services for other key markets such as commercial real estate, travel and hospitality, and the retail sector.

Matterport’s acquisition of VHT Studios provides real estate brokerages and their professionals access to an expanded selection of marketing services and expertise they need to effectively market and promote properties. These include high-end photography, drone imagery, floor plans, virtual tours, and other marketing services. When combined with Matterport digital twins and collaboration tools, the newly expanded solution not only helps brokerages and agents save time with an easy-to-order and comprehensive source for their digital marketing needs but also reduces their costs with comprehensive marketing packages along with flexible, optional add-ons. This all-in-one marketing solution provides one of the richest and most compelling digital experiences for property seekers and has been proven to drive increased sales for brokerages and agents.

“We’re thrilled to welcome the VHT Studios team to Matterport along with the talent and industry expertise they bring,” said RJ Pittman, Chief Executive Officer at Matterport. “When we looked at VHT Studios and the work they do, it was a natural fit to unite our efforts to reimagine the fragmented process that was in place for brokers and agents to list properties, and prospective buyers to view them. We are not only excited for how we can transform the customer experience in the real estate industry, but also how we can apply VHT Studios’ expertise to our growing enterprise business as demand for digital twin technology continues to surge.”

“We are excited to welcome VHT Studios, a market leader in real estate digital marketing technologies, to Matterport today. While we make strategic investments to expand our business, we remain committed to conscientiously managing our balance sheet of approximately \$600 million in cash and short- and long-term investments as of March 31, 2022. Further, having integrated the Enview acquisition earlier

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this year, our team is looking forward to what we expect will be another successful integration,” said JD Fay, Chief Financial Officer of Matterport.

“What makes this acquisition unique is how complementary our services are to one another,” said Brian Balduf, CEO of VHT Studios. “In today’s market, buyers need to move quickly on a property and often only have one opportunity, or less, to view it in person. A listing that features high-quality digital content and immersive 3D technology is a transformative experience that empowers buyers to make more confident decisions, faster. Together we believe our services can help move more purchase decisions online by combining rich property information and the ability to virtually inspect, measure, and experience a space from anywhere, anytime, as many times as needed.”

The all-in-one marketing solution that brings together VHT Studios’ and Matterport’s services is expected to be available through Matterport’s Capture Services during the third quarter this year. The acquisition will enable more data to be trained on the machine learning systems acquired through Enview and whose data insights will be incorporated into Matterport’s Cortex Artificial Intelligence engine.

VHT Studios has helped more than 200,000 real estate professionals sell more than \$200 billion in properties since the company’s founding in 1998. Seven of the top 10 brokers in the United States are customers of VHT Studios, including Baird & Warner, Coldwell Banker, Compass, Corcoran Group, Douglas Elliman, and more.

Terms of the transaction were not disclosed. Canaccord Genuity served as the exclusive financial advisor to VHT Studios.

Company News

Accenture Names Leo Framil as Chief Executive Officer — Growth Markets

14 July 2022

Accenture announced Leo Framil as chief executive officer — Growth Markets, effective September 1, 2022, succeeding Gianfranco Casati, who will become chairman — Growth Markets. In his new role, Framil will have management responsibility for all industries and services across Accenture’s business in Asia Pacific, Africa, the Middle East and Latin America.

Framil previously served as market unit lead for Latin America and has more than 30 years of consulting experience, working with major financial institutions in Latin America in banking, insurance and capital markets. Under Framil’s leadership since 2016, Accenture made eight regional acquisitions in Latin America and increased the number of people in the region by 75%. Framil has served as a member of the board for the American Chamber of Commerce for Brazil, United Way Brazil, Instituto Ayrton Senna and Gerando Falcões, among others. Throughout his career, Framil has demonstrated a strong commitment to Accenture people and championed diversity, inclusion and equality. He is a member of the company’s Global Management Committee.

“Everyone who works with Leo knows how passionately he cares about our business, our people and our communities,” said Julie Sweet, chair and CEO, Accenture. “He leads the way with his commitment to clients and his dedication to helping address social issues, always looking ahead to see what more he can do to create 360° Value for all our stakeholders.”

Gianfranco Casati, who has led Accenture’s Growth Markets since 2014, is stepping down as chief executive officer and member of the Global Management Committee as of September 1. He will become

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chairman — Growth Markets, continuing to serve clients and working closely with account teams. During his tenure, the size of the Growth Markets business doubled. Throughout his outstanding career at Accenture, Casati has served in a range of market, industry and client leadership roles, demonstrated an unwavering commitment to inclusion and diversity, and has been an extraordinary developer of leaders. Accenture recently was named a ‘2022 Great Place to Work’ in Argentina, Brazil, Greater China, India, Japan, Mexico and the Philippines. Casati also supported B20 Indonesia in the role of co-chair for the Energy, Sustainability and Climate Task Force.

“Gianfranco has been a force in our business for nearly four decades and a role model for how to care for our people and clients,” said Sweet. “With his deep understanding of our business and connections across every area of our company, he led the design, creation and implementation of our growth model — making an enduring contribution and lasting imprint on Accenture.”

Rodolfo Eschenbach has been named as market unit lead for Latin America, succeeding Framil in the role, and will join the Global Management Committee. Eschenbach has served as Strategy & Consulting lead for Latin America since March 2020 and brings deep industry and functional skills, strong client relationships, and a track record of digital transformation to his new role. Previously, he helped establish Accenture as an early digital leader, which included making key acquisitions and hiring senior talent, and led Accenture’s Resources business in the region. Eschenbach personally demonstrates his strong commitment to inclusion, diversity and equity, to developing Accenture people, and to serving local communities.

Altair Names VirtualCAE Channel Partner for Brazil

14 July 2022

Altair, a global leader in computational science and artificial intelligence (AI), announced that it is welcoming VirtualCAE, a national engineering, technology, simulation and innovation company, as a new channel partner for the Brazilian market. VirtualCAE will offer Altair’s virtual simulation solutions and services for a range of industry sectors, including the mobility (on-road equipment, agricultural machinery, automotive, including heavy vehicle manufacturers), aeronautics, and oil and gas sectors, among others.

The partnership will enable the democratization of Altair’s simulation and data analytics solutions by providing small- and medium-sized organizations with world-class, intuitive software capabilities.

“Altair is a major provider of simulation, data, and vehicle dynamics solutions, and our customers include all of Brazil’s automotive industry companies,” said Valdir Mendes Cardoso, Brazil country manager, Altair. “Together with VirtualCAE, we will expand our presence and offer products like Altair SimSolid, EDEM, Radioss, and MotionSolve, all renowned for their vehicle dynamics analysis prowess and power.”

"The partnership with Altair represents the union of two leaders in optimization and multidisciplinary simulation software. The two companies have a strong synergy and a commitment to spread the usage and adoption of optimization technologies, providing not only software, but also services and training," said Valmir Fleischmann, operations director, VirtualCAE. "Altair's products, such as Altair OptiStruct, expand our offer beyond topological optimization and advance to topographic, shape, and parametric optimization. We know how much optimization can bring benefits to Brazilian customers, both related to the reduction of mass to overcome raw material cost increases and to meet energy efficiency criteria, as well as those related to the reduction of development time."

Among the sectors that stand to benefit most from the new partnership is the automotive sector, where

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VirtualCAE has extensive expertise and Altair offers powerful solutions for electrification, crash, and vehicle rollover analysis, including trucks and buses. Additionally, users can apply this technology to on-road implements, agricultural machinery, and agrobusiness in general.

Altair's automotive product portfolio has been growing rapidly, especially with the acquisitions of Powersim and SimSolid, to help meet the development needs of vehicle electrification. SimSolid is a revolutionary tool that lets users simulate complex models quickly and efficiently, which also allows users to evaluate more design alternatives.

"SimSolid breaks paradigms by not using mesh and reduces the work of weeks into a few hours, as it performs full-featured structural analysis on CAD assemblies in minutes and eliminates geometry preparation and meshing – the two most time-consuming, experience-demanding, and error-prone tasks in conventional structural simulation," said Fleischmann. "In my opinion, looking back over the last 10 years, the meshless technology embedded in SimSolid was the greatest innovation brought to the structural simulation market."

Powersim acts on the design and simulation of power electronics and motor drives, offers higher simulation speed, and ensures accurate results at the system level, allowing easy implementation and seamless adoption in any environment, providing robust design and simulation for various industrial applications.

Aspen Technology Appoints Robert Beauchamp to its Board of Directors

14 July 2022

Aspen Technology, Inc., a global leader in industrial software, announced that Robert "Bob" Beauchamp has been appointed to its Board of Directors. Mr. Beauchamp's appointment fills the remaining open seat following AspenTech's completion of its transaction with Emerson in May.

Mr. Beauchamp brings more than 30 years of significant business leadership, industrial technology and M&A experience, most recently serving as Chairman of the Board at BMC Software, a recognized leader in business service management. Mr. Beauchamp joined BMC in 1988 as a sales executive and rapidly rose through the organization by leading key initiatives in research and development, strategic marketing and corporate development, ultimately becoming CEO for more than 16 years and Chairman of the Board for 12 years.

"I am delighted to welcome Bob to our new and expanded Board of Directors," said Antonio Pietri, president and CEO of AspenTech. "His broad and proven leadership credentials will serve the company well as we move into this exciting new phase of growth and development as we help industrial leaders achieve their sustainability and profitability objectives."

"I am honored to join the AspenTech team, especially at this time when the company's unique expertise and solutions are at the forefront of creating a more sustainable world," said Beauchamp. "The company is well positioned to transform industrial software and I am looking forward to taking on this leadership role."

Mr. Beauchamp, who will join the AspenTech Board's Nominating and Corporate Governance Committee, has been active and served on the boards of numerous non-profit, industry and civic organizations during his career, including Baylor University, Raytheon and National Oilwell Varco among others. He holds a bachelor's degree in finance from the University of Texas at Austin and a master's degree in management from Houston Baptist University.

Atos strengthens its governance to deliver on its strategic project

13 July 2022

Atos announces that the Group is strengthening its governance to ensure the successful execution of its operational performance improvement plan and its strategic transformation project in order to create value for all its stakeholders, in particular its customers, employees and shareholders:

1. At the level of the management team

Following the announcement of Rodolphe Belmer's departure on June 14, the Board of Directors has decided to put in place a new management team as of today. It is responsible for implementing the Group's operational performance improvement plan and its strategic transformation project. Rodolphe Belmer leaves his position at Atos upon the announcement.

This management team will be composed of:

- **Nourdine Bihmane**, Group CEO and co-CEO in charge of the Tech Foundations business, operational performance improvement and in particular cash generation.
- **Diane Galbe**, Senior Executive Vice President (*Directrice Générale Adjointe*) of the Group in charge of strategic projects and all support functions of the Group.
- **Philippe Oliva**, co-CEO in charge of Digital, Big Data and Security activities, as well as the acceleration and innovation plan for these growth activities. Philippe Oliva will retain his position as Group Deputy CEO.

They will carry out their respective missions under the supervision of the Board of Directors and, as far as the strategic project is concerned, of the *ad hoc* Committee formed within it.

Bertrand Meunier, Chairman of the Board of Directors, thanked Rodolphe Belmer: *"He has played an essential role in putting Atos in a position to define the solid, realistic and value-creating strategic plan that the company needs and is taking forward."*

He added: *"I am very happy that we have a very strong management team which is fully committed to the success of this important project. Nourdine Bihmane and Philippe Oliva will be particularly focused on the development of the activities of the entities for which they will be CEOs, respectively the new Atos and Evidian, when the separation project can be implemented. Diane Galbe will be in charge of the management of this strategic project and the concrete execution of the business separation. They will carry out their respective missions under the supervision of the ad hoc committee and the Board of Directors."*

The Board of Directors has full confidence in the new management team, which combines, on the one hand, the required operational skills with Nourdine Bihmane and Philippe Oliva, each with more than twenty years of experience in their respective sectors, and, on the other hand, the necessary experience to execute this project with Diane Galbe, thanks to her successful track record in transformation and M&A transactions.

2. The evolution of the Board of Directors and its committees:

Atos Group reminds that the composition of the Board of Directors has evolved following the General Meeting held in May 2022 with the addition of:

- **Kat Hopkins**, Director of Talent, Career Management and Training at Atos, a human resources specialist, who brings to the Board her vision in terms of talent management and attraction and training, as well as her knowledge of the Group's businesses;
- **René Proglío**, former partner of Arthur Andersen and investment banker, whose experience is

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recognized in audit, accounting and financial transactions;

- **Astrid Stange**, former Chief Operating Officer of the Axa group and Senior Partner and Managing Director of the Boston Consulting Group, who brings to the Board her operational experience of large-scale digital and operational transformations on the client side and her intimate knowledge of the financial and insurance sector, one of the Group's key verticals;
- **Elizabeth Tinkham**, former Senior Managing Director at Accenture, who brings to the Board extensive experience in the cloud and IT industries and a deep understanding of hyperscalers.

The strengthened Board has the necessary skills to oversee the transformation of the Group. In addition, the Board intends to continue to enrich its skills.

The chairs of the Audit Committee, the Nomination and Governance Committee and the Remuneration Committee have also changed, with the appointment of:

- **René Proglío** as Chair of the Audit Committee;
- **Elizabeth Tinkham** as Chair of the Nomination and Governance Committee;
- **Astrid Stange** as Chair of the Remuneration Committee.

The composition of the Board Committees to date is therefore as follows:

- **Audit Committee:** René Proglío (Chair), Vivek Badrinath and Vernon Sankey;
- **Nomination and Governance Committee:** Elizabeth Tinkham (Chair), Lynn Paine, Édouard Philippe and Vernon Sankey;
- **Remuneration Committee:** Astrid Stange (Chair), Vesela Asparuhova and Valérie Bernis;
- **CSR Committee:** Valérie Bernis (Chair), Farès Louis and Astrid Stange.

Finally, as noted earlier, a consultative *ad hoc* Committee in charge of overseeing the study and implementation of the strategic project by the management team has been formed within the Board of Directors. This committee is composed of a majority of independent directors and is chaired by René Proglío.

The Group's transformation project was presented at its Capital Markets Day on June 14.

- **Nourdine Bihmane** brings over 20 years of proven tech expertise, driving change management, growth and P&L performance. Nourdine served in several global management roles across Europe, North America, and emerging markets and drove successful transformation and turnaround programs for the Atos Group. He was most recently Executive Vice President, Head of Global Delivery, and CEO of Growing Markets. He has extensive commercial and operational knowledge of Atos, especially in the fields of managed services and decarbonization.
- **Philippe Oliva** joined Atos in April this year as Chief Commercial Officer, bringing strong international experience in the digital sector, from almost 20 years at IBM where he managed Integrated technologies, Cloud services and Hybrid Services.
- **Diane Galbe** is recognized for her unique experience and successful track-record in terms of company transformation and carve-outs. She joined the Atos Group in March 2022, as **General Secretary and Chief Strategy & Sustainability Officer**, also in charge of Mergers & Acquisitions. Previously, she had spent 15 years in various management positions at Suez. In particular, she was a member of the Executive

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Committee and Deputy General Manager of the Group, in charge of strategy, transformation and the global Smart & Environmental Solutions Business Unit.

Beatrix Martinez Appointed Vice President, Investor Relations, Dassault Systèmes

12 July 2022

Dassault Systèmes has named Beatrix Martinez, 52, Vice President, Investor Relations, effective July 1, 2022. In this role, she is leading the company's investor relations activities to support its strategic direction focused on driving innovations to achieve a more sustainable world for patients, citizens and consumers. She succeeds François-José Bordonado, who will support her during the next year before retiring.

Martinez brings more than 25 years of experience in finance and business to her new role. After beginning her career at PricewaterhouseCoopers, she joined Dassault Systèmes in 1997, working in the financial planning and accounting division of its financial department for nine years before joining its investor relations team.

Most recently, as Senior Director, Investor Relations, she was instrumental in driving the evolution of Dassault Systèmes' investor relations practice, structure and size in the context of the company's change in dimension, working closely with Bordonado as Dassault Systèmes broadened the scope of the 3DEXPERIENCE platform from the Manufacturing Industries sector to the Life Sciences & Healthcare and Infrastructure & Cities sectors. Under this evolution, Dassault Systèmes was recognized as the most innovative company on France's CAC 40 stock exchange, winning the "Prix de l'Innovation" at the 2021 Investor Awards organized by Boursorama.

Martinez holds degrees in business and art history from ESCP Business School and Ecole du Louvre, respectively, in France. She occasionally serves as Team Coach at HEC Paris Executive Education and as Career Coach at Ecole Polytechnique, where she applies her experience toward mentoring startups and students.

CGS's TeamworkAR® Partners with Google Glass Enterprise Edition 2

12 July 2022

CGS, a global provider of applications, enterprise learning and outsourcing services, announced it has entered into a technology, sales and marketing partnership with Google to deliver experiential training and user-generated collaborative content for frontline workers across a wide variety of industries.

"Whether customers are looking to decrease onboarding and training costs, improve productivity or provide an amazing customer experience, the possibilities for driving immediate business impact are endless," said Doug Stephen, President, Enterprise Learning division and TeamworkAR division, CGS. "More than anything else, a mixed reality solution has to be easy. Therein lies the beauty of Glass Enterprise Edition 2. Its familiar form factor, which makes it extremely portable, comfortable and hands-free are key benefits for frontline employees and managers, who far too often are challenged with deploying and scaling rapid on-the-job training, high turnover, unexpected downtime and a growing need to solve customer problems on the spot. We are thrilled to partner with Google to help bring AR- and VR-based training to the masses."

In the Deskless Workforce Learning and Development Satisfaction Survey of more than 1,000 frontline employees, CGS found that in industries such as Retail, Manufacturing and Healthcare, up to 42 percent of employees were not receiving the tools or training required to keep pace with change during the pandemic.

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Clients leveraging CGS's track record of supporting the needs of deskless and frontline workers accelerated their digital transformation efforts to drive growth by adopting experiential learning programs to improve onboarding, retention, customer support, sales, coaching, collaboration and equipment maintenance. Glass Enterprise Edition's commitment to helping enterprise employees work faster, smarter and safer via assisted reality helps businesses improve the quality of their output.

As part of this joint effort, clients are creating and scaling fresh collaborative content for digital work instruction at the speed of business.

"From rapid onboarding and experiential training, to empowering frontline workers with the ability to generate and share their own custom content with colleagues, AR/VR solutions are having dramatic impact across all facets of business," said Ram Motipally, Head of Business Development, Glass Enterprise Edition. "While we're seeing incredible opportunity and adoption across multiple industries, quick service restaurants are standing out as early adopters, using MR and wearables for hands-free operational and safety training that boosts productivity gains upwards of 35 percent. And we've barely scratched the surface. We anticipate our partnership with CGS' TeamworkAR platform will advance the entire AR/VR industry forward and accelerate adoption of Glass Enterprise Edition 2 in the process."

In addition to a technology partnership, the companies plan on a series of co-marketing programs to build awareness and thought leadership, and CGS plans to sell Google Glass Enterprise Edition 2 as part of a bundled solution.

TeamworkAR: Make Everyone a Genius™

TeamworkAR is a platform that brings real-time digital transformation to onboarding, on-the-job training, learning and support for any company, anywhere. From knowledge capture and transfer to collaborating with and assisting workers across skill levels, our goal is to **make everyone a genius**. By moving your workforce from a training room to real-world work in days rather than weeks, TeamworkAR increases productivity and success. Enhancing your own custom content through augmented reality, you can change how work gets done—for better.

ELECTRONIC SYSTEM DESIGN INDUSTRY LOGS 12.1% YEAR-OVER-YEAR REVENUE GROWTH IN Q1 2022, ESD ALLIANCE REPORTS

11 July 2022

Electronic System Design (ESD) industry revenue increased 12.1% from \$3,157.7 million in Q1 2021 to \$3,540.5 million in Q1 2022, the ESD Alliance, a SEMI Technology Community, announced today in its latest *Electronic Design Market Data (EDMD)* report. The four-quarter moving average, which compares the most recent four quarters to the prior four, rose 14.5%.

"The industry continued to report double-digit year-over-year revenue growth in Q1 2022, with quarterly revenue reaching a record \$3,540.5 million," said Walden C. Rhines, Executive Sponsor of the SEMI *Electronic Design Market Data* report. "Product categories Computer-Aided Engineering, Printed Circuit Board and Multi-Chip Module, Semiconductor Intellectual Property, and Services recorded growth for the quarter. Geographically, the Americas, Japan, and Asia Pacific (APAC) all reported revenue growth."

The companies tracked in the *EDMD* report employed 51,328 people globally in Q1 2022, a 4.7% increase over the Q1 2021 headcount of 49,024 and up 0.2% compared to Q4 2021.

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

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Revenue by Product and Application Category – Year-Over-Year Change

- **Computer-Aided Engineering (CAE)** revenue increased 14.8% to \$1,118.2 million. The four-quarter CAE moving average increased 12.5%.
- **IC Physical Design and Verification** revenue decreased 7.5% to \$631.2 million. The four-quarter moving average for the category declined 2.5%.
- **Printed Circuit Board and Multi-Chip Module (PCB and MCM)** revenue increased 1.4% to \$293.3 million. The four-quarter moving average for PCB and MCM rose 11.4%.
- **Semiconductor Intellectual Property (SIP)** revenue jumped 23.7% to \$1,376.5 million. The four-quarter SIP moving average grew 26.5%.
- **Services** revenue increased 22.7% to \$121.4 million. The four-quarter Services moving average increased 24.9%.

Revenue by Region – Year-Over-Year Change

- The **Americas**, the largest reporting region by revenue, procured \$1,522.7 million of electronic system design products and services in Q1 2022, an 18.5% increase. The four-quarter moving average for the Americas rose 18%.
- **Europe, Middle East, and Africa (EMEA)** procured \$434.1 million of electronic system design products and services in Q1 2022, a 3% decrease. The four-quarter moving average for EMEA grew 8.1%.
- **Japan's** procurement of electronic system design products and services increased 1.8% to \$263.5 million. The four-quarter moving average for Japan rose 2.5%.
- **Asia Pacific (APAC)** procured \$1,320.3 million of electronic system design products and services in Q1 2022, a 13.2% increase. The four-quarter moving average for APAC increased 15.6%.

Graphisoft celebrates 40 years of serving the AEC industry and unveils its vision and strategic roadmap to support customer success in the future

14 July 2022

Graphisoft, the leading Building Information Modeling (BIM) solutions provider for architecture, unveiled its vision and strategic roadmap at the global online launch of its latest solutions and services, including Archicad 26, its award-winning flagship product, BIMx, BIMcloud, and DDScad.

Graphisoft was founded in Budapest in 1982 by Gábor Bojár and the late István Gábor Tari with an entrepreneurial spirit and a passion for delivering value through innovation.

Graphisoft released its first commercial software in 1984 – and right from the beginning with coordinated 2D and 3D, Archicad has driven industry innovation ever since. Its “Virtual Building” approach pioneered the road to what would many years later be called Building Information Modeling, or simply, “BIM.”

“As we mark Graphisoft’s 40th anniversary, we pause with gratitude to reflect on how far we have come — now as a global leader in our industry and serving users in more than 120 countries with 29 localized versions and millions of buildings designed with Archicad,” said Huw Roberts, CEO, Graphisoft. “But as proud as we are of our past, we are even more excited about our future. The entrepreneurial spirit that inspired our founders and fueled our growth continues to shape our approach to addressing the

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challenges and opportunities our customers face today. We remain focused on understanding our users, their needs and aspirations, and on delivering great products and services to help them achieve their best, and to create great architecture,” he added.

Graphisoft’s Vision, Mission, and Strategy

Graphisoft believes in a world where buildings make people’s lives better, and where these buildings are designed and delivered by digitalized multi-disciplinary teams working together easily and effectively.

To help realize the vision, Graphisoft’s mission is ‘Empowering teams to create great architecture.’ The strategy to fulfill that mission is to deliver exceptional software, with integrated services, knowledge and know-how, benefits, and support — so that architects and multi-disciplinary design teams can maximize their design excellence.

Graphisoft’s Roadmap to Continued Growth and Success

Graphisoft’s roadmap consists of multiple lanes — for **architecture**, **multi-disciplinary design**, **design team collaboration**, and **productive ecosystems** — each with plans for exciting new features, capabilities, and enhancements. **Architecture** remains focused on design, documentation, visualization, and collaboration. Upcoming focus areas and planned strategic milestones include:

- Delivering capabilities that help architects stay focused on their design, through better management of information that increase efficiency across projects.
- Providing innovative new capabilities that help manage and navigate an array of design options, through which architects can explore greater ‘what if’ scenarios within the design process.
- Navigating designs with even greater speed and performance and working on highly crafted details — regardless of the scope or complexity of the project.
- Expanding Archicad’s already powerful information layer to further integrate analysis and simulation into the design process.

Multi-disciplinary design starts with OPEN BIM and moves forward with Integrated Design, expanded this year with Graphisoft’s newly merged DDScad capabilities for Building Systems engineering. Upcoming focus areas and planned strategic milestones include:

- Further integrate BIM data systems amongst disciplines.
- Integrate data and workflows and broaden DDScad’s geographic reach.
- Integrate user experiences across multi-disciplinary teams, with shared capabilities, aligned interfaces, and streamlined training and configuration.
- Fully integrated MEP experience with DDScad, with updated interfaces and many shared capabilities.
- Integrate enterprise-wide management of multi-disciplinary libraries, shared resources, templates, and standards.

Design Team Collaboration is centered around BIMcloud and BIMx, reaching out with OPEN BIM and BCF, and connecting to Common Data Environments (CDEs). Archicad users already have unmatched collaboration amongst themselves, and OPEN BIM and easy information exchanges make working alongside virtually any application and with any other team seamless. Upcoming focus areas and planned strategic milestones include:

- Tighter integration across teams in multiple disciplines with new capabilities such as dynamic publishing of hyper-models, on-demand, cross-team, as a service — and extended connectivity

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with other CDEs.

- Focus on dynamic management of teams and their information, and responsive integration with CDEs.
- Support enterprise management of teams, multi-tiered and nested team structures, and orchestrating the administration processes across systems.

Finally, Graphisoft’s services and benefits ensure and maximize the **productivity** of Graphisoft’s users’ ecosystems — with the **Graphisoft Forward** service and benefits program, access to know-how through **Graphisoft Learn**, and sharing knowledge and best practices with peer users and experts through **Graphisoft Community**. Upcoming focus areas and planned strategic milestones include:

- Simplify the administration of the design ecosystem — including enhancements to licensing and entitlement systems, product upgrade workflows, and expanded integration with third-party enhancements that extend Graphisoft’s product capabilities.
- Deliver an ‘instant’ upgrade experience for customers — including templates, resources, configuration, and data formats.
- In alignment with the Design Team Collaboration roadmap, provide enterprise management of all aspects of the design ecosystem.

Graphisoft also noted that its unique Adaptive Hybrid Framework technology architecture will enable faster and more nimble high-quality delivery of new capabilities, features, products, and services spanning the desktop, cloud services, and mobile devices beginning with Archicad 26.

“In short, our strategy is to apply continuous innovation through an Adaptive Hybrid Framework, to flexibly deliver great capabilities in stable, easy-to-use, future-proof solutions for all design disciplines in integrated teams,” said Zsolt Kerecsen, Vice President, Software Success at Graphisoft.

Graphisoft — Key Milestones

1982 — Graphisoft is founded in Budapest by Gabor Bojar and Istvan Gabor Tari with an entrepreneurial spirit, and a passion for delivering value through innovation.

1984 — Graphisoft releases its first commercial software – and right from the beginning with coordinated 2D and 3D, Archicad has driven industry innovation ever since. With the “Virtual Building” approach pioneering the road to what would later be called “BIM.”

1997 — Graphisoft introduces “Teamwork,” allowing multiple people to work on the same model simultaneously, and with “BIM Server” as its next-generation in **2009**, and then “BIMcloud” in **2014** and most recently with “BIMcloud Software as a Service” in **2022**, this technology continues to provide an incredible high-performance scalable solution for integrating BIM teams.

2009 — Graphisoft releases what would be called “Virtual Building Explorer” for Archicad 13. Updated and renamed “BIMx” in **2011**, this introduced Graphisoft’s unique hyper-model approach, providing a highly engaging and interactive experience with BIM. Award-winning BIMx is now available on iOS and Android phones and tablets, the desktop, and even through a simple browser providing a Hyper-model experience for even the largest and most complex projects on virtually any device.

2020 — Graphisoft introduces “Integrated Design” — and first demonstrated this game-changing, shared-model, real-time collaboration approach for architects and structural engineers working together. This new technology-based workflow even more tightly integrates the work across multiple design disciplines. Today there are 16 different structural analysis software solutions using Integrated Design with Archicad around the world.

2022 — Graphisoft and Data Design System (now Graphisoft Building Systems) merge to add full Mechanical, Engineering, and Plumbing (MEP) capabilities to the Graphisoft ecosystem.

Industry IoT Consortium and Digital Twin Consortium Publish IoT Security Maturity Model for Digital Twins

14 July 2022

The Digital Twin Consortium® announced a liaison agreement with the National Institute of Building Sciences (NIBS) to advance the use of digital twins in the building industry.

“We are excited about working with NIBS on leveraging digital twins to extend building information management systems (BIMs) capabilities,” said Dan Isaacs, CTO, Digital Twin Consortium. “Through our collaboration, we will influence standards and processes to advance the use of digital twins in building industries.”

Established by the U.S. Congress in 1974, NIBS convenes experts from throughout the building industry, architecture, design, construction, and government.

“The construction industry has been a leader in implementing building information modeling to support activities in delivering projects, and NIBS supports this effort by developing BIM standards and guidelines at the national level,” said Stephen T. Ayers, FAIA, Interim CEO of NIBS. “This agreement with the Digital Twin Consortium comes at a critical point for the built environment.”

The two groups have agreed to the following:

- Collaborating on standards requirements
- Realizing interoperability by harmonizing technology components and other elements
- Aligning work in Digital Twin Consortium horizontal domains for adoption within vertical environments and use cases, proof of concepts, and programs, including:
 - Technology, terminology, and taxonomy
 - Security and trustworthiness
 - Conceptual, informational, structural, and behavioral models
 - Enabling technologies such as simulation and AI
 - Case study development from initial concept through operational analysis
 - Open source for reference implementations
- Enhancing DTC and NIBS council awareness and advocacy through cross-member engagement.
- Creating a joint-working group on BIM and digital twins to coordinate existing standards, develop new standards and processes needed to drive adoption.

Digital Twin Consortium and NIBS will exchange information through regular consultations, seminars, and more.

Infosys Wins 2021 Google Cloud Specialization Partner of the Year Award for Cloud Migration

12 July 2022

Infosys, a global leader in next-generation digital services and consulting, announced that it has been awarded the 2021 Google Cloud Specialization Partner of the Year award for Cloud Migration.

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Infosys has been recognized for its achievements in the Google Cloud ecosystem enabling seamless transitions with accelerated workload migrations to Google Cloud. The award recognizes the deep expertise and capabilities developed as part of Infosys Cobalt in collaboration with Google Cloud, creating a scalable, on-demand cloud model that will help enterprises navigate digital transformation and adopt a cloud-first strategy.

Infosys in collaboration with Google Cloud designs and develops cloud transformation and migration services for enterprises across industries leveraging Infosys Cobalt assets such as the Cloud Migration Assessment Framework, Cloud Suitability Assessment Framework and Workload Migration Suite. This has helped enterprises drive better business outcomes, minimize risks while adhering to regulatory standards.

Infosys has consistently demonstrated innovative thinking and outstanding customer delight, by harnessing Google Cloud and Infosys Cobalt assets to create industry-leading solutions such as the Infosys Media Platform, for which Infosys was awarded the 2020 Google Cloud Industry Solutions Partner of the Year Award for Media and Entertainment. In addition, Infosys has been named a Foundational Partner in the launch of Google Cloud Cortex Framework and is accredited with the Google Cloud Partner Specialization for Cloud Migration, Infrastructure, and Data and Analytics.

Victor Morales, Managing Director, Global System Integrators Partnerships, Google Cloud, said, “Google Cloud Specializations recognize partner excellence and proven customer success in a particular product area. Based on their certified, repeatable customer success and strong technical capabilities, we’re proud to recognize Infosys as the Cloud Migration Specialization Partner of the Year.”

Anant Adya, Executive Vice President, Infosys Cobalt, Infosys, said, “We are delighted to be recognized by Google Cloud. Enterprises today operate in hybrid and multi-cloud environments and require a partner to build a strong foundation and seamlessly migrate workloads with minimal risks. By leveraging our market-leading and innovative Infosys Cobalt offerings on Google Cloud, enterprises can significantly accelerate their journey to the cloud and drive digital transformation agenda in a dynamic business environment.”

iPoint names Peter Schmidt as new Chief Executive Officer

13 July 2022

iPoint-systems, a global leader in product compliance and sustainability software, is pleased to announce the confirmation of Peter Schmidt as the new CEO. Appointed by iPoint’s major shareholder GRO Capital and iPoint’s Advisory Board, Schmidt will guide iPoint through the next stages of transformation and their journey to growth and success.

With this appointment, iPoint is on course to implement further growth plans. Building on iPoint’s achievements in product compliance, sustainability will now be at the heart of the new management’s strategy to become an internationally leading software provider for the automotive, electronics, and chemical industries. In 2020, after iPoint’s 20-year owner-driven journey, the Danish private equity investor GRO Capital A/S became a shareholder of iPoint, adding capital and experience to accelerate growth globally, further strengthen product innovation, enhance sales and marketing efforts, continue to expand iPoint’s strong position in Europe, and build greater depth in the North American and Asian markets.

Joining iPoint in 2021 as Managing Director and Chief Revenue Officer, Peter Schmidt has served as interim CEO since March 31, 2022, when founder and long-term CEO Joerg Walden decided to step down. On July 1, 2022, Schmidt has assumed operational leadership as the official successor of Joerg

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Walden by appointment of GRO Capital and iPoint's Advisory Board.

Peter Schmidt: "Product sustainability and product compliance are becoming more and more key competitive advantages for the industry. Getting to know iPoint's deep knowledge of product compliance and product sustainability combined with our ability to serve companies in automotive, electronics and chemicals industries with leading innovative software solutions, I see our company well positioned to support our customers on their way to a compliant and sustainable future. I am excited to contribute my part to the success of this well-established company and the whole team."

Torben Munch, Chairman of iPoint's Advisory Board: "I am delighted to have Peter with us on this journey. He has demonstrated the experience and enthusiasm to lead iPoint through the next stages of our journey. By appointing him as CEO, GRO and the Board reaffirm their confidence in Peter's work and vision for iPoint's transformation and his ability to ensure growth and stability for the company, its customers, and partners."

Lantek expands its offices in Poland

11 July 2022

Lantek, a multinational company focused on the development of industrial software solutions and the digital transformation of companies in the metal sector, has further strengthened its presence in Poland with the inauguration of its new offices, in order to respond to its business growth needs. This allows it to increase its operational capacity with respect to the facilities it already had.

The new offices in Katowice have a square surface area of 500m² and its brand new, spacious, and innovative spaces are aimed at encouraging collaborative environments, representing a quantitative improvement for the local Lantek team.

The opening of these new offices is a boost for Lantek's strategic investment in Poland, considered a key market for international development. The official inauguration was attended by Lantek executives and Tom Schneider, Managing Director Development at TRUMPF Machine Tools, who, with this visit, reinforced the TRUMPF Group's commitment to Lantek's international growth project.

For Alberto López de Biñaspre, Lantek CEO: "Poland is a key part of Lantek's expansion plan as it fits perfectly into our R&D development plan in which we are immersed. The expansion of these offices represents a technological leap and complements our existing team so that Lantek can continue to supply software to the whole world, with the best quality standards on the market".

Through this new work centre, Lantek will multiply its capacity for the development of software applications and solutions for the industry, while increasing its operational excellence by supporting the 20 international offices it currently has in 14 countries.

This way, the company continues its commitment to offering its innovative services to all its clients, focussing on ensuring the compatibility of its software with all types of cutting technologies and for all manufacturers in the market. Lantek software currently manages over 1,300 sheet metal cutting machines and has agreements with more than 120 machine manufacturers.

International leadership

With this new site, the Basque company Lantek, with its headquarters in the Álava Technology Park, is reinforcing its position in the international market.

Back in 2021, the company was already strengthening its external growth with an increase in sales volume of 42% in Asia, 13% in America and 19% in the EMEA region, while growth in countries such as Germany with 33% and Italy, with 25.6%, also stood out. It was precisely in Italy that the company

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relocated its headquarters to Turin, thanks to the construction of a square surface of over 1,200 m², reinforcing the market in the Italian peninsula which is considered a key centre in the Mediterranean area.

PlanHub Announces New VP of Marketing

12 July 2022

PlanHub is proud to announce that Susan Tormollen has joined the team as Vice President of Marketing, headquartered in West Palm Beach, FL.

Susan brings over 20 years of expertise developing brand and revenue growth strategies for small and medium-sized SaaS and marketplace organizations.

“I believe marketing magic happens at the crossroads of thoughtful branding, passion for customers, great product development, and data-driven decision-making”

Prior to joining PlanHub, Tormollen led, developed and implemented successful performance-driven marketing plans increasing end-to-end brand awareness and sales via product and digital marketing programs, including B2B and B2C growth efforts at iHewlett-Packard, BaliHoo, Silicon Labs and Expedia Group.

“Susan’s experience in Marketing to SMBs for high growth organizations is a huge asset to PlanHub. We have plans to do big things in the upcoming years and I’m thrilled to have such an experienced marketing leader join our PlanHub family of over 300k Subcontractors, 50k General Contractors, and 10k Suppliers”. – Ro Bhatia, CEO PlanHub

PlanHub looks forward to embracing Susan’s knowledge and expertise to aggressively grow our market penetration and portfolio of game-changing pre-construction solutions for contractors nationwide.

Shaping the Metaverse: Nemetschek Group is a Founding Member of the Metaverse Standards Forum

12 July 2022

The Nemetschek Group, represented by its brand Maxon, a leading developer of professional 3D software solutions, is one of the founding members of the Metaverse Standards Forum. The newly established governing body aims to foster alignment on requirements and priorities for metaverse interoperability standards. Along with Adobe, Epic Games, Meta, Microsoft, and NVIDIA, amongst additional founding members, Maxon aims to help build an open and inclusive metaverse that enables the deployment of diverse technologies, including interactive 3D graphics, augmented and virtual reality, and more.

The Metaverse Standards Forum brings together companies and standards organizations to accelerate the development and deployment of metaverse interoperability standards through pragmatic, action-based projects.

“Ultimately the success of the Metaverse is dependent on specifying universal interoperability standards. By doing this, we’re establishing a unified workspace where users can explore new vehicles for content creation while discovering new ways to be creative,” said David McGavran, CEO of Maxon. “The new Metaverse Standards Forum was established for companies like ours who build tools and solutions for content creators who want to remain on the cutting edge. As a result, we have long embraced essential software that provides our customers with the tools they need to engage with the Metaverse.”

“The potential of the metaverse is huge – it can revolutionize the way we live, work and communicate.

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To create a true experience for everyone, it needs to be built on open standards”, says Yves Padrines, CEO of the Nemetschek Group. “Our long-standing commitment to a customer-centric, open, collaborative and inclusive ideology perfectly positions us to help build the foundations for a similarly accessible and user-focused Metaverse”, he adds.

The high-quality tools under the Maxon product umbrella, including Cinema 4D, Redshift, and the recently acquired ZBrush, have been established as the industry standard for motion graphics, VFX, 3D sculpting and all types of visualization for over 20 years. Maxon One users are provided with a smooth workflow for all of their creative projects and already allow customers to participate in the Metaverse as it currently exists, as well as what it will eventually become.

Susan Repo to Join the Matterport Board of Directors

11 July 2022

Matterport, Inc. (“Matterport”), the leading enterprise and real estate digital twin company driving the digital transformation of the built world, announced the appointment of Susan Repo to the Matterport board of directors, effective July 11, 2022. Ms. Repo will also serve as chair of the audit committee of the board. Following the appointment of Ms. Repo, the board will be comprised of five directors, four of whom are independent.

“We are pleased to welcome Susan to the Matterport board,” said RJ Pittman, Chairman and Chief Executive Officer of Matterport. “Susan’s deep experience in technology and managing global businesses will be invaluable to Matterport as we grow our business in new sectors and as enterprise businesses continue to see the tremendous value Matterport Digital Twin technology can bring to their organizations. Her record of excellence at the Board level and strong financial acumen is especially valuable to the company and our audit committee that she now chairs. We look forward to Susan’s insights and contributions toward achieving our mission of making every building and every space more valuable and accessible.”

Ms. Repo is currently the Chief Financial Officer at ICEYE, a New Space earth observation technology company enabling access to real-time imagery from space to empower better decision making in governmental and commercial industries from its own constellation of synthetic aperture radar satellites. Prior to ICEYE, she served in finance and operational leadership roles with MariaDB, Tesla, Juniper Networks and Agilent Technologies. She also serves on the board of Mitek Systems, Inc. (Nasdaq: MITK), where she chairs the audit committee and serves on the nomination and governance committee, GM Financial Bank, a member of the General Motors subsidiaries, and Call2Recycle, Inc., the largest battery stewardship and recycling organization in North America, where she chairs the audit and technology committee. Her experience in driving strategic and transformative results includes leading Tesla’s capital raises to accelerate growth, expansion into alternative energy and its acquisition of SolarCity.

Ms. Repo’s finance, operations and legal experience creates unique and strategic opportunities for the companies she serves. Recognized as a seasoned executive for driving strategic and transformative results, she continues to advance her career with key achievements.

Ms. Repo holds a Bachelor of Science in Business Administration and Finance from the University of Southern California and a J.D. from the Chicago-Kent College of Law at the Illinois Institute of Technology.

Event News

Ansys Solutions Help Increase Energy Efficiency and Significantly Reduce Emissions for Aerospace and Defense Customers

11 July 2022

Ansys' industry-leading simulation solutions support digital transformation within the aerospace and defense (A&D) industry by equipping civilian and military sectors to face unprecedented challenges with speed, agility, and predictive accuracy. At the upcoming Farnborough International Airshow from July 18-22 in Hampshire, England, Ansys will highlight how simulation enables innovative, cost-efficient, and smarter solutions.

Alongside nearly 1,500 exhibitors at Farnborough International Airshow, Ansys will illuminate how its comprehensive simulation portfolio propels the A&D industry forward in both fundamental and emerging areas of engineering, while reducing physical prototyping costs, design errors, and risk. Experts will demonstrate the benefits of simulation through safe and sustainable aviation, strategic defense capabilities, the future of passenger travel, next-generation space exploration, and workforce advancement with expert training and onboarding initiatives.

With physics-based software equipped for fluids, electronics, digital mission engineering, and more, A&D companies throughout the world use Ansys to engineer better, faster, and cleaner solutions from developing hypersonic defense technology and electromagnetic spectrum resilience to energy-efficient hydrogen propulsion systems.

“At Electroflight, Ansys' simulation enabled our engineers to optimize a 425kg battery pack to operate with 90% energy efficiency through structural analyses, thermal management, and best-choice materials selection,” said Douglas Campbell, technical director at Electroflight. “By integrating Ansys' multiphysics simulation solutions in this way, we continue to develop efficient and sustainable aircraft by balancing energy consumption, propulsion, and lift.”

Ansys' materials properties database and selection tools support efficiency by enabling the selection of sustainable materials from the start of design. In addition to physics-based simulation solutions, Ansys supports aviation cybersecurity through reliable embedded control software that helps ensure safe and secure aircraft systems and decreases the risk of cyberattacks.

“Ansys is propelling digital transformation across the A&D industry by providing top-tier solutions that include simulation tools, advanced solvers, and purpose-built simulation process and data management that address a vast range of needs, including embedded software and digital mission engineering applications,” said Walt Hearn, vice president of global sales and customer excellence at Ansys. “We are honored to participate in the Farnborough International Airshow to exhibit Ansys' world-class solutions so that more organizations can benefit from our leading technologies.”

For more information or to register for the show, visit the Farnborough International Airshow [event site](#). If you are in attendance, visit Ansys' indoor and outdoor sites located at booth #4960 and chalet #C224, respectively.

BETA CAE Systems hosted the 8th International Summer School on Advanced Material Systems, AMS2022

7 July 2022

BETA CAE Systems is honored and excited to host the participants of the 8th International Summer School on Advanced Material Systems, AMS2022, and give a series of seminars, included in this year's summer-school agenda.

The AMS2022 had the opportunity to attend in BETA seminar sessions focusing on Finite Element modelling of structures made of laminated composites, and on applications of Extended Reality in the Engineering Simulation.

The AMS Summer School series is the continuation of equivalent summer schools organized by “The International Institute for Multifunctional Materials for Energy Conversion” (IIMEC), an NSF-funded International Material Institute, established at Texas A&M University, in partnership with Georgia Institute of Technology, the University of Houston and international research collaborators from Universities in North Africa, Middle East, and Mediterranean countries.

Organized by the Aristotle University of Thessaloniki and Texas A&M University with the kind collaboration of ENSAM and BETA CAE Systems, the summer school aims to establish a communication knowledge-base, and computational-laboratory grid that advances research in production-characterization-testing and modeling of advanced composites and multifunctional materials, provide students and faculty from the participating countries with global research and international leadership experience, and contribute to the transformation and advancement of education on materials science and engineering to all participants.

The past seven summer schools, since the year 2015, were successfully conducted with the participation of more than 250 students from 20 different countries around the globe. This year, AMS2022 was a hybrid event organized from July 4 to July 8, 2022, in Thessaloniki, Greece. For more information, visit the summer school's [website](#).

Hexagon reinforces the democratisation of technology at the Precision Agriculture Congress

11 July 2022

Event will be held in Campinas (SP, Brazil) between 9 and 11 August and is expected to bring together around 800 participants to discuss studies, practices and technologies for an efficient field

According to global consultancy Markets and Markets, the precision agriculture market is expected to grow by 61% by 2026 - and medium and small businesses are expected to lead this advance. In this scenario, Hexagon's Agriculture division will take advantage of the Brazilian Precision Agriculture Congress - ConBAP 2022, to show how current technology can be accessed by manufacturers and producers of all sizes. The event will be held in Campinas (SP, Brazil) between 9 and 11 August and is expected to gather around 800 participants to discuss studies, practices and technologies for an efficient field.

"With the advance of innovations and digitalisation in the field, the use of technologies is no longer a competitive differential, becoming a necessity for any producer or manager who wants to remain in the market with good results," points out Marcio Blau, Latin America Sales Manager of Hexagon's Agriculture division, which develops and provides digital solutions for the agricultural and forestry sectors. "The resources are increasingly accessible for small and medium businesses, which can find a

CIMdata PLM Industry Summary

progressive range of options for their operations", adds Marcio, who will be speaking on "Digital Solutions for Agriculture" at the congress. The presentation will take place on 10 August at 11:45 am in the "AP Market" room.

Today, at least 84% of Brazilian farmers rely on technology support, as shown by a survey led by the Brazilian Agricultural Research Corporation (Embrapa). The variety of brands and models of equipment already allows the choice of a supplier that is suited to the most diverse operations, according to the capacity of the property and the size and type of crop. Hexagon, for example, offers three display levels to the market: the HxGN AgrOn Ti5, Ti7 and Ti10. While the latter is a launch with a 10.1-inch HD screen and a high-performance processor to meet the needs of large companies, the Ti5 is an entry-level product, i.e. a piece of equipment with ease of use, applicability in various farming operations and affordable investment.

"Each product has its own particularities to meet the needs of different operations, but all follow the principle of allowing the use of several precision farming solutions on just one display, integrating processes, avoiding waste and increasing efficiency and profitability," reinforces Marcio.

The three displays will be on display at Hexagon's booth at the congress, as will the precision tools that can be embedded in these products, such as AgrOn Auto Steering, AgrOn Machine Monitoring and AgrOn Fertilisation Control. Another solution presented will be AgrOn Control Room, which remotely monitors everything that happens in the field in real time, as well as planning and operation analysis software.

The company will also be exhibiting its latest market launch, the HxGN AgrOn ECU ISOBUS - an Electronic Control Unit that interfaces with sensors and actuators in agricultural implements. With communication in the ISOBUS standard, the product focused on the agricultural manufacturers market allows compatibility with devices of different brands and models.

ConBAP is promoted by the Brazilian Association of Precision and Digital Agriculture (AsBraAP) and takes place every two years, including talks, plenary sessions, sector panels, presentation of scientific papers and spaces for companies to exhibit their products and services. With the central theme "Precision Agriculture in the Digital Era", this year's event is expected to bring together around 800 participants, including researchers, technical assistance and extension professionals, professors, students, agricultural companies and rural producers.

ZWSOFT Showed High Popularity at Archidex 2022 in Malaysia

8 July 2022

ZWSOFT attended Archidex 2022 in Malaysia from June 29th to July 2nd with the latest versions of ZWCAD and ZW3D.

ARCHIDEX is Asia's leading architecture business event that features prominently on the region's trade calendars for a global community of architecture and building professionals.

During this exhibition, as the reliable provider of all-in-one CAX solutions, ZWSOFT presented the new features of ZWCAD and ZW3D such as sheet set manager and enhanced full machine simulation, which attracted over 3000 visitors to the booth. ZWSOFT CAD/CAE/CAM solutions gained wide recognition from visitors with easy-to-use commands, a familiar interface, and strong DWG compatibility.

It was also the first time for ZWSOFT Malaysia team to attend the offline exhibition and present visitors with professional CAD/CAE/CAM solutions.

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In the first three days, visitors were invited to participate in the luck draw organized by ZWSOFT. Each visitor had the chance to win Apple AirPods or Xiaomi Bluetooth Voice Speakers.

Financial News

Addnode - Interim report 1 January – 30 June 2022

15 July 2022

STRONG PROGRESS IN ALL DIVISIONS

SECOND QUARTER SUMMARY, APRIL–JUNE 2022

- Net sales increased by 49 per cent to SEK 1,489 m (1,002), of which 14 per cent was organic. Currency-adjusted organic growth was 11 per cent.
- EBITA increased to SEK 154 m (98), and the EBITA margin increased to 10.3 per cent (9.8).
- Operating profit rose to SEK 101 m (59), and the operating margin widened to 6.8 per cent (5.9).
- Profit for the period increased to SEK 70 m (40).
- Earnings per share increased to SEK 0.52 (0.30*).
- Cash flow from operating activities increased to SEK 122 m (51).
- 4:1 share split executed in May 2022.
- Acquisition of Decisive AS of Norway with net sales of some SEK 57 m.
- SEK 1,600 m revolving credit facility extended by one year to June 2025.
- Supported by AGM authorisation, the Board of Directors decided to repurchase a maximum of 230,000 class B treasury shares.

** Due to the 4:1 share split executed in May 2022, historical key financial ratios based on the number of shares have been restated.*

SUMMARY OF SIGNIFICANT EVENTS AFTER THE END OF THE REPORTING PERIOD

- No significant events have occurred since the end of the period.

Informatica To Report Second Quarter Fiscal 2022 Financial Results on July 27, 2022

11 July 2022

Informatica, an enterprise cloud data management leader, announced it will report financial results for the second quarter of fiscal year 2022, which ended June 30, 2022, following the close of the U.S. markets on Wednesday, July 27, 2022. Informatica will hold a conference call on the same day at 1:30 p.m. Pacific Time (4:30 p.m. Eastern Time) to discuss its quarterly financial results.

The conference call can be accessed by dialing (844) 200-6205 from the United States or (929) 526-1599 internationally with access code 283250. A live webcast and replay of the conference call can be accessed from the investor relations page of Informatica's company website at <https://investors.informatica.com>.

L&T Technology Services reports 23% growth in Q1FY23

15 July 2022

L&T Technology Services Limited, India's leading pure-play engineering services company, announced its results for the first quarter ended June 30, 2022.

Highlights for Q1FY23 include:

- Revenue at ₹18,737 million; growth of 23% YoY
- USD Revenue at \$239.5 million; growth of 20% YoY in constant currency
- EBIT margin at 18.3%; up 100 bps YoY
- Net profit at ₹2,742 million; growth of 27% YoY

During the quarter, LTTS won a USD 50 million plus deal, four USD 15 million deals and two deals with TCV of USD 10 million.

“We started the new fiscal on a strong note with revenue growing sequentially by 4.7% in constant currency. Growth was led by Plant Engineering and Industrial Products, benefitting from spends towards digital manufacturing, energy transition and smart & connected products. Our big bets focus has helped us to align ourselves with these strategic and multi-year customer programs.

Deal wins were very strong during the quarter and spread across segments. Our Aerospace and Rail segment is seeing a revival of large deal bookings with a USD 50 million deal in Q1 on the back of a stellar long-term deal that we won in the prior quarter. We recently opened an engineering design center in Toulouse, France to cater to new age digital requirements of Aerospace.

We see a broad-based pipeline of opportunities which gives us confidence of the growth momentum sustaining,” said **Amit Chadha, CEO & Managing Director, L&T Technology Services Limited.**

Awards & Recognitions:

- Recognized as a Great Place to Work® for its best practices across India
- LTTS has been positioned as a ‘Leader’ in all 5 quadrants for the North America market in the 2022 ISG Provider Lens™ Digital Engineering Services report.
- LTTS wins Golden Peacock Corporate Social Responsibility Award
- LTTS’ Chest-rAITM solution recognized as an “Innovator” by NASSCOM in their AI GameChangers Awards 2022
- HfS Research recognized LTTS among the Top 10 Industry 4.0 Service Providers
- LTTS recognized as a ‘Leader’ in Everest Group’s Digital Product Engineering Services PEAK Matrix® Assessment 2022

Patents

At the end of Q1FY23, the patents portfolio of L&T Technology Services stood at 913, out of which 625 are co-authored with its customers and the rest are filed by LTTS.

Human Resources

At the end of Q1FY23, LTTS’ employee strength stood at 21,433.

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LTI Constant Currency Revenues Grow 26.6% YoY; Net Profits up 27.7% YoY

14 July 2022

Larsen & Toubro Infotech, a global technology consulting and digital solutions company, announced its Q1 FY23 results.

In US Dollars:

- Revenue at USD 580.2 million; growth of 1.7% QoQ and 23.4% YoY
- Constant Currency Revenue growth of 2.9% QoQ and 26.6% YoY

In Indian Rupees:

- Revenue at INR 45,228 million; growth at 5.1% QoQ and 30.6% YoY
- Net Income at INR 6,344 million; decrease of 0.5% QoQ and growth of 27.7% YoY

“We are pleased to report 26.6% YoY revenue growth in constant currency. We added 4 Global Fortune 500 logos to our client list in Q1, taking our total Global Fortune 500 customers to 77. We are also happy to announce 4 large deal wins during the quarter with net new TCV of US\$ 79mn.”

– Sudhir Chaturvedi, President Sales & Executive Board Member

“Our healthy pipeline will ensure that we maintain our large deal momentum. Our sustained net headcount addition reflects our confidence and continued focus to deliver strong growth in FY23”

– Nachiket Deshpande, Chief Operating Officer & Executive Board Member

Recent Deal Wins

- Selected by a Global Fortune 500 energy company for management and implementation of a safety program across their operations
- Chosen by a global organization present in over 130 countries involved with protecting human rights to transform their data management, collaboration and communication solutions, digital experience, and ERP landscape
- Engaged by a Global Fortune 500 technology company to develop, support and enhance solutions for products on their hybrid cloud and AI platforms
- One of the largest financial institutions in the Middle East has selected LTI for a multi-year managed services contract to transform their channels landscape under “Change the Bank” initiative
- A Global Fortune 500 food and services company has chosen LTI for a managed services deal to provide support and enhancements for SAP applications, Anaplan and other AWS Infrastructure and security apps
- Selected by a full-service broker as a strategic partner for managing their mission critical applications. LTI will perform development, maintenance, and production support services for applications while reducing cost and improving operational efficiency
- Selected to set up an automated and integrated governance, risk, and compliance (eGRC) solution for one of the largest Smart Cities coming up in the Middle Eastern region

CIMdata PLM Industry Summary

- Engaged by a Global Fortune 500 technology and manufacturing company to deploy a strategic sales solution across locations to ensure an efficient and smooth sales process
- One of India's largest private sector banks has chosen LTI for managing their Security Operations Center (SOC) using analytics and artificial intelligence for advanced threat monitoring, detection, remediation, and risk management processes
- Chosen by a key group member of an international financial organization to design and architect cloud native enterprise applications on Azure cloud platform
- Selected by a large insurance and financial services provider for implementation of Guidewire InsuranceNow platform for several new products and services rollouts to increase efficiency

Awards & Other Business Highlights

- LTI has been named the GSI Global Delivery Platform Partner of the Year by Snowflake, the Data Cloud company. The award demonstrates LTI's leadership and excellence, as an Elite Partner of Snowflake, in accelerating migrations and implementations on the Snowflake Data Cloud at speed and scale
- LTI won multiple accolades at the Institutional Investor 2022 Rest of Asia ex-Mainland China Executive Team rankings. LTI has been ranked amongst the top 3 across all sell-side categories in the Technology/IT Services & Software space. It was also recognized in the 'Most-Honored' Companies Asia List 2022
- LTI has been ranked among the top 5 players in the latest IT Sourcing study for the Nordic region by Whitelane Research and PA Consulting
- LTI expanded its operations by setting up a new facility in Kolkata. The new center marks company's expansion in the Eastern region of the country and is designed to meet the requirements of a futuristic and modern workplace

PROS Holdings, Inc. Announces Date of Second Quarter 2022 Financial Results Release, Conference Call, and Webcast

8 July 2022

[PROS](#)[®], a market-leading provider of SaaS solutions optimizing shopping and selling experiences, will release its financial results for the second quarter 2022 ended June 30, 2022 after the U.S. financial markets close on Thursday, July 28, 2022.

PROS Holdings, Inc. will host a conference call on Thursday, July 28, 2022 at 4:45 p.m. EDT to discuss the company's financial results and business outlook. To access this call, dial 1-877-407-9039 (toll-free) or 1-201-689-8470.

The live and archived webcasts of this call can be accessed under the "Investor Relations" section of the Company's website at www.pros.com. A telephone replay will be available until Thursday August 11, 2022, 11:59 PM EDT at 1-844-512-2921 (toll-free) or 1-412-317-6671 using the pass code 13731435.

PTC to Announce Fiscal Q3'22 Results on Wednesday, July 27th, 2022

11 July 2022

[PTC](#) will release its fiscal 2022 third quarter results on Wednesday, July 27th after the stock market closes. Senior management will host a live webcast and conference call to review the results on Wednesday, July 27th at 5pm Eastern Time. The earnings press release, accompanying earnings

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presentation, and financial data tables will be accessible prior to the conference call and webcast on the Investor Relations section of the Company's website at [PTC Investor Relations](#).

Rockwell Automation to Report Third Quarter Fiscal 2022 Results

13 July 2022

Rockwell Automation, Inc. (NYSE: ROK) is scheduled to report its third quarter fiscal 2022 results on Wednesday, July 27, before the market opens. The release will be posted on the Rockwell Automation Investor Relations website at www.rockwellautomation.com/en-us/investors.html.

A conference call to discuss the quarterly results will be held at 7:30 a.m. CDT on July 27. This call will be audio webcast and accessible on the Rockwell Automation website. Presentation materials will also be available on the website prior to the call.

Interested parties can access the conference call by dialing the following numbers: +1 (888) 330-2022 in the U.S. and Canada; +1 (646) 960-0690 for other countries. Use the following passcode: 5499533. Please dial in 10 minutes prior to the start of the call.

Both the presentation materials and a replay of the call will be available on the Investor Relations section of the Rockwell Automation website through August 26.

Sandvik - Interim report second quarter 2022

15 July 2022

Second quarter 2022

DELIVERING ON THE SHIFT, 25% REVENUE GROWTH AT FIXED FX

Continuing operations

- Order intake SEK 28,740 million (21,816)
- Order intake growth, at fixed exchange rates 22%
- Revenues SEK 27,050 million (20,136)
- Revenue growth, at fixed exchange rates 25%
- Adjusted EBITA SEK 5,141 million (4,192)
- Adjusted EBITA margin 19.0% (20.8)
- Adjusted EBIT SEK 4,794 million (4,093)
- Adjusted EBIT margin 17.7% (20.3)
- Adjusted profit before tax SEK 4,812 million (3,965)
- Profit for the period SEK 2,627 million (3,159)
- Adjusted profit for the period SEK 3,694 million (2,999)
- Earnings per share, diluted SEK 2.10 (2.52)
- Adjusted earnings per share, diluted SEK 2.95 (2.39)
- Free operating cash flow SEK -49 million (2,945)

A webcast and conference call will be held on July 15, 2022 at 13:00 CEST. Information is available at home.sandvik/investors

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Stratasys Conference Call to Discuss Second Quarter 2022 Financial Results

13 July 2022

[Stratasys Ltd.](#) will release financial results for the second quarter ended June 30, 2022, on Wednesday, August 3, 2022. The Company plans to hold the conference call to discuss its second quarter 2022 financial results on Wednesday, August 3, 2022, at 8:30 a.m. (ET).

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

<https://event.choruscall.com/mediaframe/webcast.html?webcastid=mUfZ38Qo>

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

TCS' Q1 Performance Reflects Continued Growth Momentum

8 July 2022

Tata Consultancy Services reported its consolidated financial results according to Ind AS and IFRS, for the quarter ending June 30, 2022.

Highlights of the Quarter Ended June 30, 2022

- Revenue at **\$6,780** million, **+10.2%** YoY
- Constant Currency revenue growth: **+15.5%** YoY
- Operating Margin at **23.1%**; contraction of **2.4%** YoY
- Net Income at **\$1,218 million** | Net Margin at **18%**
- Net Cash from Operations at **\$1,388 million** ie **114.1%** of Net Income
- Net headcount addition of **14,136** | Workforce strength: **606,331**
- Diverse and inclusive workplace: Women in the workforce: **35.5%** | **153** Nationalities
- Building a G&T workforce: **12 million** learning hours clocked | **1.7 million** competencies acquired
- LTM IT Services attrition rate at **19.7%**
- Dividend per share: ` 8.00 | Record date 16/07/2022 | Payment date 03/08/2022

Rajesh Gopinathan, Chief Executive Officer and Managing Director, said: *“We are starting the new fiscal year on a strong note, with all-round growth and strong deal wins across all our segments. Pipeline velocity and deal closures continue to be strong, but we remain vigilant given the macro-level uncertainties. Our new organization structure has settled in nicely, getting us closer to our clients and making us nimbler in a dynamic environment. Looking ahead, we remain confident in the resilience of technology spending and the secular tailwinds driving our growth.”*

N Ganapathy Subramaniam, Chief Operating Officer and Executive Director, said: *“We are pleased with our execution during the quarter wherein we successfully delivered several transformation programs. The investments we made on people, upskilling efforts and select lateral hiring et al helped manage the talent turnover with minimum impact on our operations. During the quarter, we have resumed in-person meetings, and hosted several clients at our facilities. We are bringing in more of our*

CIMdata PLM Industry Summary

associates back to our development centres, and it is steadily increasing at all levels. On the sustainability front, we have signed our commitment to SBTi version 5 standards during the quarter and are making steady progress towards our net zero journey with tremendous alignment to this initiative across our associates.”

Samir Seksaria, Chief Financial Officer, said: “It has been a challenging quarter from a cost management perspective. Our Q1 operating margin of 23.1% reflects the impact of our annual salary increase, the elevated cost of managing the talent churn and gradually normalizing travel expenses. However, our longer-term cost structures and relative competitiveness remain unchanged, and position us well to continue on our profitable growth trajectory.”

Milind Lakkad, Chief HR Officer, said: “Our investment in strategic talent development initiatives and the linking of learning to career development have energized our workforce. Following our annual compensation review, employees received salary increases of 5 to 8%, with top performers getting even bigger hikes. Our empowering, performance-driven work culture is helping us attract local talent across all our key markets. Continued hiring momentum resulted in a milestone quarter, with the employee strength crossing the 600,000 mark.”

Q1 Segment Highlights**

Industries: Growth was led by Retail and CPG (**25.1%**), Communications & Media (**+19.6%**), Manufacturing vertical (**+16.4%**) and Technology & Services (**+16.4%**). BFSI grew **+13.9%** while Life Sciences and Healthcare grew **+11.9%**

Markets: Among major markets, North America led with **+19.1%** growth; Continental Europe grew **+12.1%** and UK grew **+12.6%**. In emerging markets, India grew **+20.8%**, Asia Pacific grew **+6.2%**, Latin America grew **+21.6%**, and Middle East & Africa grew **3.2%**.

Services: There was strong, broad-based demand across the different services, led by Cloud, Consulting & Service Integration, Cognitive Business Operations and Enterprise Application Services. Key themes driving G&T demand in Q1 were customer experience, cloud transformation and sustainability.

- **Consulting & Services Integration:** Saw strong growth led by finance and shared services, supply chain, next-gen enterprise transformation and cloud strategy and transformation.
- **Cloud Platform Services:** Continues to experience strong growth as clients actively invest in hybrid cloud strategies and pursue multi-horizon cloud transformation initiatives. Infrastructure, application and data modernization, operating model transformations and business transformations drove growth. Hyperscaler partnerships continue to strengthen and expand from ongoing joint GTM initiatives.
- **Digital Transformation Services:** Growth in Q1 was led by cloud ERP modernization using SAP S/4 HANA, Salesforce and digital process management services. TCS’ industry solutions powered by TCS Crystallus™ continued to resonate strongly with clients. TCS Interactive saw strong demand for design-led digital experience services across B2B, B2C and D2C initiatives and digital marketing. In cybersecurity, demand was driven by managed services in security support, upgrades and monitoring & operations, and areas like IAM modernization, Fraud Prevention & Digital Forensics. Cyber Defense Suite continues to gain adoption.
- **Cognitive Business Operations:** Saw strong demand in areas like datacenter and network services, customer experience management, HR operations, supply chain, digital workplace and verticalized operations. Trends around vendor consolidation and integrated operations deals continue to strengthen. TCS’ contextual knowledge and assets like Cognix™, MFDM™ and

CIMdata PLM Industry Summary

ignio™ are helping it gain share in this segment.

** Year on Year Growth in Constant Currency terms

Research and Innovation

As on **June 30, 2022**, the company has applied for **6,752** patents, including **169** applied during the quarter, and has been granted **2,400** patents.

Human Resources

TCS' workforce stood at **606,331** as on June 30th, a net addition of **14,136** during the quarter. The workforce continues to be very diverse, comprising **153** nationalities and with women making up **35.5%** of the base.

TCS continues to invest in organic talent development as part of its expansion into the growth and transformation opportunity. In Q1, TCSers clocked **12 million** learning hours, resulting in the acquisition of **1.7 million** competencies.

The company gradually accelerated its return to office program in Q1, with about **20%** of the workforce now working from office. IT services attrition was **19.7%** on the last twelve months' basis.

IFRS Financial Statements

Consolidated Statements of Comprehensive Income

For the three-month periods ended June 30, 2021, and June 30, 2022

(In millions of \$, except per share data)

	Three-month periods ended June 30, 2021	Three-month periods ended June 30, 2022
Revenue	6,154	6,780
Cost of revenue	3,670	4,175
Gross margin	2,484	2,605
SG & A expenses	914	1,039
Operating income	1,570	1,566
Other income (expense), net	78	76
Income before income taxes	1,648	1,642
Income taxes	424	419
Income after income taxes	1,224	1,223
Non-controlling interests	3	5
Net income	1,221	1,218
Earnings per share in \$	0.33	0.33

Consolidated Statements of Financial Position

As of March 31, 2022, and June 30, 2022

(In millions of \$)

CIMdata PLM Industry Summary

	As of March 31, 2022	As of June 30, 2022
Assets		
Property and equipment	1,596	1,518
Right-of-use Assets	1,009	956
Intangible assets and Goodwill	665	617
Accounts Receivable	4,520	4,543
Unbilled Revenues	1,613	1,712
Investments	4,027	4,144
Cash and Cash equivalents	1,650	706
Other current assets	2,577	2,636
Other non-current assets	1,315	1,237
Total Assets	18,972	18,069
Liabilities and Shareholders' Equity		
Shareholders' Funds	12,053	11,648
Other current liabilities	5,593	5,158
Other non-current liabilities	1,231	1,178
Non-controlling interests	95	85
Total Liabilities	18,972	18,069

Implementation Investments

4T2D Starts Off on the Right Foot by Choosing Centric PLM™ for Efficiency Prior to Launch

12 July 2022

4T2D, the sustainable apparel company, has selected Centric Software®'s Product Lifecycle Management (PLM) solution. Centric Software provides the most innovative enterprise solutions to plan, design, develop, source and sell products such as apparel, footwear, sporting goods, furniture, home décor, cosmetics, food & beverage and luxury to achieve strategic and operational digital transformation goals.

4T2D (pronounced 'fortitude') is an apparel startup, founded in January 2021. Jordan Leach, Brand and Operations Manager says, "We're a little over a year old, and launching our first line this fall. We are an every-wear brand, where you can go from work to play; you can wear our pieces at any time, any-wear."

Leach explains why they have chosen to implement PLM at the inception of their company. "Currently our team is small. Our focus has been on sourcing and product development which is where we found

CIMdata PLM Industry Summary

the need for PLM.” She continues, “We needed something that would make our process more efficient and give us visibility, so we can focus on making great products. As a small team, we wear many hats and needed a solution that allows one person to perform many roles. Secondly, a solution that could integrate with our manufacturing facility and use across multiple brands. Our Centric users will be divided between 4T2D and Fourbital Factory.”

The factory was founded by 4T2D. Leach enthuses, “It’s about 600 feet down the road from 4T2D headquarters. It’s an innovative apparel manufacturing facility for small brands like us who have a focus on sustainability. They will provide design services, manufacturing training certifications, host educational classes and have space for pop-up retail opportunities. The factory’s goal is to be 100% circular. We’re building a department where all waste fabric will be reduced to fibers and turned into yarn for beanies or felt for a variety of uses.”

4T2D evaluated several PLM providers. Leach says, “I looked at Centric first, and was really blown away. It checked all the boxes. We looked at a few others but they were not small-business friendly. We considered using the ERP Fourbital Factory is using which has PLM aspects, but it wasn’t the perfect solution for us. Inevitably, we circled back around to Centric. At the end of the day, I didn’t want to invest in a program that might solve our current problems and costs less, but then later have to migrate to something more robust as we scale.”

Leach is anticipating multiple benefits from Centric PLM. “We have plans to integrate our PLM with Fourbital Factory’s ERP. It’s going to streamline our development process and hopefully reduce the amount of back-and-forth and potential errors in communication. We expect it to help us to bring our products to market faster.” She concludes, “We are focusing on being a digital-first brand, from factory machinery to development software, it enables us to stay agile, maximize efficiencies and ensure long-term growth.”

President and CEO of Centric Software, Chris Groves, says, “It is heartening to see a young company implement Centric PLM right from the start, to set themselves on the true path from day one. We are happy that another business with a sustainability focus has chosen Centric to spur on their eco-mission.”

Accenture Uses Artificial Intelligence-Driven Database to Help Reduce Electricity Rates for Colonial Pipeline’s Interstate System

14 July 2022

Accenture is using a proprietary database powered by artificial intelligence (AI) to help Colonial Pipeline, the largest refined products pipeline in the United States, reduce regulated and deregulated electric utility rates for its interstate pipeline system.

The energy-management project leverages Accenture’s Utility Tracking System (UTS), a proprietary database of approximately 30 million anonymized utility bills that the company has been aggregating for more than 20 years. Built to identify power tariff options around the world, UTS uses AI-powered insights and automation as part of Accenture’s SynOps platform to continuously improve the efficiency and reliability of electricity rate-savings recommendations.

Accenture is using insights generated by UTS to evaluate power bills for operations at approximately 80 Colonial Pipeline pump stations along its 5,500-mile pipeline system, which delivers approximately 100 million gallons of refined petroleum products daily to markets in the Southern and Eastern United States. Armed with information about tariff options, Accenture presents lower-cost options — e.g., reduced cost per kilowatt-hour — to Colonial Pipeline, and then works with utilities to help implement new rates.

CIMdata PLM Industry Summary

“This initiative, which is part of our ongoing effort to optimize utility rates, has shown encouraging results early on and should continue to help us in our comprehensive review of all utility accounts on our system,” said Tony Leo, manager of energy management and power optimization for Colonial Pipeline. “We look forward to our continued partnership with Accenture as we identify opportunities to transition to renewable energy to power our pump stations.”

Yusuf Tayob, group chief executive of Accenture Operations, added, “Our work for Colonial Pipeline is a great example of how Accenture’s long-term investments in technologies are helping clients deepen business resilience amid evolving market conditions. We look forward to making further progress on this project and to helping Colonial Pipeline evaluate how it can buy green energy, which increasingly is powering infrastructure as consumers and stakeholders demand cleaner air and less environmental impact.”

AECOM awarded program management contract for Orange County Public Schools in Florida

11 July 2022

AECOM, the world’s trusted infrastructure consulting firm, announced it has been selected by Orange County Public Schools (OCPS) in Florida to provide program management services in support of its capital facility program. The district-wide program encompasses remodeling, renovations, and additions to existing schools and facilities as well as the construction of new schools and facilities, in line with OCPS’ strategic objective of setting high expectations for learning through spaces that support students’ social and emotional well-being, create a positive climate and safe environment, and facilitate an engaged and invested school community.

“AECOM has managed programs for many of the largest school districts in the U.S., and we’re excited to continue this legacy of success in partnership with OCPS,” said Drew Jeter, chief executive of AECOM’s global Program Management business. “Delivering transformational change for our clients starts with our people, and our local team of program management experts are proud to support the district’s capital facility program goals by leveraging our technology-oriented best practices and global knowledge base.”

Under the five-year base contract, AECOM’s responsibilities are expected to include program and project planning, procurement, and contracting support; schedule development and control; management of design; cost estimating; management of construction and project closeout; and the implementation of software solutions for program management and facility condition assessments.

“We look forward to partnering with OCPS on this time-sensitive program to implement an outcome-driven approach that aligns its educational goals with a streamlined delivery of facility improvements,” said Dan Faust, chief executive of AECOM’s U.S. East & Latin America region. “OCPS is continuing to transform how young minds are educated for decades to come, and we’re immensely proud to support the district as a trusted program manager that is aligned with its mission of creating enriching and diverse pathways that help lead its students to success.”

OCPS is the fourth largest public school district in Florida and the ninth largest public school district in the U.S., serving over 206,000 students at 202 schools. AECOM previously served as OCPS’ program manager from 1999 to 2015, working alongside district staff to help manage a \$2.5 billion capital improvement program, during which more than 125 new school and renovation projects were completed.

ALICE Technologies Extends Partnership with Takenaka Corporation

12 July 2022

ALICE Technologies announced that Takenaka Corporation – one of the five largest general contractors in Japan – has selected ALICE for use on a number of essential projects. ALICE Technologies’ construction optioneering platform helps general contractors worldwide to leverage the power of artificial intelligence to plan, bid and build their large-scale infrastructure and commercial projects more efficiently and with reduced risk.

Since its founding in 1610, Takenaka has adhered to toryo (master builder) spirit, a spirit in which its team members are dedicated to building the best possible architectural works for its customers. The company has brought this commitment to quality to major projects worldwide, from the development of airport terminals to stadiums. Around 70 percent of Takenaka’s projects are design-build, an approach to construction that closely aligns the interests of the company with those of its customers.

Takenaka and ALICE first worked together on the development of One Bangkok, a major multi-use project in Bangkok, Thailand. One Bangkok combines hospitality, retail, art and cultural experiences, together with the city’s finest offices, hotels and residences. With the ALICE platform, Takenaka generated more than 300 different ways to build one of the project’s large mixed-user towers as it explored solutions that would reduce risk and drive efficiency. Not only was Takenaka able to de-risk the project by confirming its baseline schedule, it was also able to identify an opportunity to trim more than 30 days from its original schedule through the judicious use of overtime.

Building on its initial success with ALICE, Takenaka now plans to use the ALICE platform on key projects from preconstruction through project delivery. During preconstruction, Takenaka team members will use ALICE for “optioneering” – to explore the scenarios that make the most efficient use of project resources (labor, equipment, and materials) and to test the impact of changes in key variables on project outcomes. For example, a manager might use ALICE Precon to determine how the number of cranes, manpower, or the order in which zones are being worked on could affect the speed and cost of the project. The rigorous use of ALICE to create and test options will enable Takenaka to submit the best solution for the project. When it comes to the execution phase, Takenaka will then use ALICE Manage to control its project schedule and budget. If circumstances change – as they inevitably do on most construction projects – the Takenaka team can then use ALICE to quickly update project plans and recover from project delays.

“ALICE gives us an entirely new capability: to explore numerous potential ways to build a project before we ever break ground. We see many potential opportunities to put the ALICE platform to work and are pleased to be expanding our use with such an innovative partner.”, said Takao Tamotsu General Manager, Construction Planning, Asia Region, Takenaka Corporation.

“Across the globe, Takenaka is building the large-scale projects that are ideal for ALICE,” said ALICE Founder and CEO René Morkos. “Through smart application of generative construction and artificial intelligence, ALICE enables our customers to create and evaluate myriad construction options, and then to successfully deliver on their ideal construction plan. We’re confident that ALICE can have a big impact on this business and are looking forward to working with Takenaka to make construction optioneering a global operational advantage for the company.”

Altair, LG Electronics Collaborate to Accelerate Digital Transformation with AI-based Simulation for Product Development

11 July 2022

Altair, a global leader in computational science and artificial intelligence (AI), recently signed a memorandum of understanding with LG Electronics (LG) to accelerate the digital transformation of product development. Together, Altair and LG will promote research and development and the construction of a simulation platform. The two companies will share information in priority fields of research, including computer-aided engineering (CAE), data analytics, automation, and more.

In addition, the two companies plan to build a more advanced digital transformation development environment by integrating LG's product development technology with Altair's simulation and AI technology. Together, the companies will cooperate on CAE/automation platform development and digital twin technology, which LG uses to develop products.

“Altair has the advanced simulation, high-performance computing, and data analytics technology to support manufacturing companies as they develop products quickly and efficiently,” said Sam Mahalingam, chief technology officer, Altair. “Through this cooperation with LG, we will develop a powerful and reliable technological foundation that will enhance LG's competitiveness.”

By building a digital development environment using AI-based simulation technology, it's possible to minimize the need for physical testing in the product development stage and reflect feedback gleaned from data analytics and optimization technology. These forces combine and interact to speed the development process and shorten time-to-market.

“Through our collaboration with Altair, we look forward to advancing digital transformation technology, which is a growth engine for smart product development, and create an environment that accelerates product development,” said SeungKey Lee, vice president, LG Electronics Production Engineering and Research Institute (PRI) Manufacturing Innovation Center.

Ansys Enables High-Bandwidth Design for Programmable Chips at Achronix

13 July 2022

Achronix Semiconductor Corporation (Achronix), a leader in high-performance FPGAs and embedded FPGA (eFPGA IP), leveraged Ansys' multiphysics simulation to successfully signoff on its latest FPGA, the Speedster®7t AC7t1500 FPGA. Using Ansys, Achronix safeguarded the thermal reliability and power integrity of its latest programmable chip, which uses advanced 7 nanometer (nm) silicon technology. This technology delivers high-bandwidth performance for demanding processing workloads, including artificial intelligence (AI), machine learning (ML), and networking infrastructure.

Due to the amount of power packed into each high-performing chip, temperature control and sensitivity are essential to successful design. To ensure product performance and safety, Achronix used Ansys® RedHawk™ and Ansys® Totem™ to verify the power integrity and thermal reliability of the chip's IP blocks, while employing Ansys® Pathfinder™ to analyze electrostatic discharge (ESD) circuits.

“Advancing to 7nm silicon process technology improves our device performance but also increases our need for multiphysics verification,” said Chris Pelosi, vice president of hardware engineering at Achronix. “As such, we rely on the fidelity and high capacity of the Ansys platform to provide us with access to a wide range of power, thermal, and reliability signoff checks for our Speedster7t AC7t1500 FPGA. We continue to trust Ansys' solutions for additional projects, including our Speedcore embedded FPGA IP development.”

CIMdata PLM Industry Summary

Ansys RedHawk, Totem, and Pathfinder are built on the Ansys® SeaScape™ big data analytics platform for electronic system design, which includes cloud execution on thousands of central processing unit (CPU) cores. This cloud-native architecture, coupled with CPU power, enables ultra-large, full-chip power analyses with high capacity and scalability.

“Developing the most advanced and sophisticated semiconductors requires the most advanced and sophisticated tools to accurately predict complex high-speed electronic and thermal effects,” said John Lee, vice president and general manager of the semiconductor, electronics, and optics business unit at Ansys. “Ansys’ broad multiphysics simulation portfolio, combined with our cloud-native platforms and optimization tools, consistently helps our customers enhance the design and performance of the most leading-edge semiconductor technology while reducing design risks and product failure.”

ATHEA selected by the French Ministry of the Armed Forces for last phase of project ARTEMIS.IA

11 July 2022

ATHEA, a joint venture between Atos and Thales, was awarded phase 3 of the project “ARTEMIS.IA” (Architecture for Processing and Massive Exploitation of Multi-Source Information and Artificial Intelligence) by the Armement General Directorate (Direction Générale de l’Armement). This project aims to offer scalable capabilities for massive data processing and artificial intelligence (AI) that meet the different business needs of the French Ministry of the Armed Forces. Designed 100% in France, ATHEA's platform will enable the Ministry of the Armed Forces to develop new AI applications based on the exploitation of sensitive data, for various use cases.

Phase 1 of the project was about creating a proof of concept; phase 2 consisted of the implementation and evaluation of demonstrations, in which the platform was applied to specific use cases. This new phase of the ARTEMIS.IA project, managed by the Digital Defense Agency (Agence du Numérique de Défense), includes the scaling up and the industrialization of the platform delivered in the previous phase, and which is already being used by some departments.

In the future, ATHEA's solution will enable the Ministry of the Armed Forces to develop new AI applications within its various systems, while bringing together decompartmentalization and controlled information sharing. The potential fields of application are numerous and relate to all areas that handle large volumes of data and for which sovereignty and security are key: intelligence, logistics, cybersecurity, and health for example. A development and integration kit, open to the industrial and academic world, will also make it possible to create easily integrated applications and accelerate the innovation cycle.

The June 24, 2022 notification is the culmination of the work of the ATHEA teams, from both Atos and Thales, as well as the entire Big Data ecosystem of the industrial and technological defense base. Around 100 experts have already been working together on the optimization and industrialization phase of the program for over a year.

*"This first major contract illustrates the confidence that the French Defense Procurement Agency and the armed forces have in ATHEA's teams to develop a high-level technological solution, specifically adapted to the defense world," said **Philippe Gasc, President of ATHEA.** "Data exploitation represents a major challenge to maintain the operational superiority of the armed forces. We are proud to develop a sovereign solution that will enable France to act autonomously in the areas of intelligence, operations command and in the digital space."*

Launched in May 2021, ATHEA is supported by an ecosystem of large industrial and digital companies

CIMdata PLM Industry Summary

– including Capgemini, Sopra Steria Group and Airbus Defense & Space – but also ETIs, SMEs, startups, scale-ups, and research organizations specialized in massive data processing and AI.

Christian Blind Mission Automates Donor Communications with OpenText

7 July 2022

OpenText™ announced Christian Blind Mission has implemented its leading Customer Communications Management (CCM) software, OpenText Exstream™, to personalize and automate hundreds of thousands of essential donor communications, increasing efficiency and improving donor relations around the world.

Christian Blind Mission (CBM) is an international non-profit organization committed to improving the quality of life of people with disabilities in the poorest countries in the world. Processing more than \$80 million in donations annually, CBM generates and sends a variety of communications ranging from thank-you letters, custom postcards, tax receipts and more to over 500,000 active donors each year, most of which require some level of personalization.

By implementing OpenText Exstream in the cloud, CBM can ensure its donors will receive highly accurate communications via an array of channels and media while also benefiting from improved operations, access to ongoing support, business continuity and the ability to seamlessly adapt to remote work and continue operations during a global pandemic.

“Each of our donors receives some type of communication every year, resulting in hundreds of thousands of different documents and templates that need to be properly managed, updated, stored and distributed,” said Alexander Kindinger, Head of IT at Christian Blind Mission. “OpenText Exstream is a key part of our strategy, allowing us to design complex documents, set up templates with variable content, update Salesforce and better manage our digital and print assets, all from within a robust cloud environment, to help us save time and money through lower operating costs and trusted expertise.”

Enabling personalized, cloud-native, omnichannel communications to help foster customer engagement, brand loyalty and simplified maintenance, OpenText Exstream helps to create highly engaging customer experiences, leveraging data and existing content to deliver communications through the digital and print channels that best reach and engage customers. Backed by OpenText’s flexible-first approach which enables customers to deploy its suite of information management solutions on-premises or in the cloud of their choice, OpenText Exstream integrates with Customer Relationship Management (CRM) systems, like Salesforce, to provide an enterprise scale solution.

“Christian Blind Mission needed a cloud-native CCM solution in place to support their growing mandate, seamlessly adapt to today’s distributed work model and enable a scalable donor relations program,” said Muhi Majzoub, EVP and Chief Product Officer at OpenText. “We are proud to play an essential role in this organization’s essential work. By leveraging OpenText Exstream, CBM has been empowered to elevate its communications strategy, explore new ways of work without interruption and continue to drive their global objectives forward, helping persons with disabilities to achieve their full potential.”

Confluence Health Leans on Infor AI to Better Care for its Communities

12 July 2022

Infor®, the industry cloud company, announced that Confluence Health, an integrated healthcare delivery system in north-central Washington, has successfully implemented critical artificial intelligence solutions to accelerate business innovation and improve care for the communities it serves.

CIMdata PLM Industry Summary

Confluence Health — with two hospitals, 40+ medical specialties, and over 300 physicians and 170 advanced practice providers servicing approximately 260,000 patients — has been able to execute key supply management processes faster, and improve staff experiences and productivity. AI-driven software automation has enabled Confluence Health to conduct key supply management processes at least 90% faster, and reduce time to execute from hours to minutes and minutes to seconds.

“One of the big challenges for the future of healthcare is to do more with less resources,” said Tom Legal, Confluence Health CFO. “Partnering with Infor has really helped us take advantage of technology to be more efficient and save time, so we can reduce the demand for resources as we grow. For example, we just implemented Infor Coleman Digital Assistant, which allows any staff member to get fast answers to inquiries on supply. Time is no longer wasted searching to find supplies or check status, giving back valuable time saved to deliver better patient care.”

Specifically, the Coleman Digital Assistant has improved employee satisfaction by alleviating the pain and anxiety the staff experiences when trying to locate supplies in a timely manner. Previously, under tight time constraints, staff faced tremendous stress in the storeroom, especially when a patient needs emergency care. With Coleman Digital Assistant, teams can now search for a specific item with a voice command to their mobile device on their way to the storeroom, and know exactly where it is and grab it quickly for the best patient outcome. Staff can now locate supplies in seconds, whereas previously it could take up to 15 minutes.

Infor Healthcare applications have also helped Confluence Health better understand the cost of the care it is providing patients, so it can create strategies to lower costs without compromising care. To optimize inventory by having the right amount of stock for patient care while not being overstocked, Confluence Health implemented Infor Inventory Intelligence. This AI-driven solution replaces a very manual, error-prone process that sometimes takes hours to calculate reorder points in one location.

“Finding the right stocking level is a challenge, and it's a process that you go through all the time, because trends can change, usage can change,” said Stace Webley, Confluence Health financial systems support manager. “Sometimes you bring in new products, and sometimes products that you have been using are no longer in your system anymore. So, it’s an ongoing process. And with Inventory Intelligence, you get to continually analyze those changes within your ERP system, and then review the recommendations. From there, it’s as easy as pushing a button that you want to accept those changes, and it will push through new reorder points to your items. With an automated solution, we not only save time, but also have more confidence in our stock levels.”

By implementing Infor’s cloud-based healthcare solutions, built on Amazon Web Services® (AWS), Confluence Health has been able to quickly adopt new processes, establish a new system of record, and implement new reporting capabilities that can adapt to future demands and growth. In addition, staff was able to add more reliable information into a centralized supply chain and financial system, giving the organization a single, dependable source of information.

“The healthcare industry is constantly in flux, and organizations such as Confluence Health are leading the pack when it comes to innovating to overcome new challenges in order to best support their patients and communities,” said Matt Breslin, Infor senior vice president and general manager. “Infor’s cloud-based healthcare solutions give customers more confidence in the business decisions they are making, in real time and from anywhere, and underscores the value of adopting modern solutions to deliver better patient outcomes.”

French cloud service provider AntemetA selects HPE GreenLake to introduce new automated disaster recovery service

12 July 2022

Hewlett Packard Enterprise announced that AntemetA, one of the leading cloud service providers in France, has selected HPE GreenLake for Disaster Recovery, a new cloud-native data solution that protects data from the edge to the cloud, to build a manageable, flexible and highly secure private hosting infrastructure to support strategic workloads and drive new business growth.

AntemetA is a private managed cloud services provider in France, providing a one-stop service to businesses for IT infrastructure solutions, private and public cloud services. With data centers in France and ISO 27001, HDS, ISAE 3402 certifications, the leading IT solutions provider is expanding its sovereign cloud service portfolio to provide advanced ransomware protection and offer the best solution to customers looking for on-premises cloud experience and demands for proximity, sovereignty and security.

"The concepts of security, safety and sovereignty have never been more crucial," commented Stéphane BLANC CEO of AntemetA. "Protecting company's data can only be achieved through round-the-clock AI-augmented monitoring to prevent, identify and circle any cyber-attack or infection. The ransomware security guaranteed by HPE expands AntemetA's data management and disaster recovery capabilities, giving customers the ability to protect their data and recover in minutes after a ransomware attack."

The new scalable and flexible solution is delivered in an as-a-service model through the HPE GreenLake platform to offer the most robust disaster recovery solution in the industry for always-on applications, ransomware protection from increasing cyber threats, and seamless hybrid cloud application and data mobility. The solution combines capabilities acquired through HPE's acquisition of Zerto with HPE technologies. Furthermore, HPE GreenLake addresses extreme flexibility requirements and fast recovery solution deployments by making capacity available on demand.

"Data is the most critical asset and is essential to operate in this new digital economy", said Alain Melon, Managing Director, HPE France. "We are excited to accelerate innovation and deliver best-in-class data management and disaster recovery capabilities with AntemetA to give customers the ability to protect their data and recover in minutes after a ransomware attack."

Beyond replacing the storage system in a pay-per-use model, HPE, as a technology and cloud service provider, helped AntemetA cloud division implement a cloud-native data infrastructure using the HPE Alletra 6000 to provide efficient and resilient storage, delivered in a cloud experience. Data Services on HPE GreenLake, HPE GreenLake Central and HPE GreenLake Consumption Analytics Portal enable AntemetA to manage their environment successfully with a cloud-native approach.

New 3D product catalog by ETA S.p.A.: BIM, CAD & CAE data streamline engineering design process

12 July 2022

3D models of industrial cabinets and enclosures now available on CADENAS download portals

ETA has established itself worldwide as a manufacturer of high-quality control cabinets and enclosures for automation systems. ETA's vision is focused on future viability and innovation, which led the company to work with CADENAS to develop a digital product catalog based on eCATALOG solutions technology to "provide better customer service, especially in terms of usability of technical data," according to Francesco Basta, Sales Manager at E.T.A. S.p.A. ETA's new catalog now offers engineers

CIMdata PLM Industry Summary

and designers on-demand access to BIM, CAD and CAE data of ECOR and ENUX automation cabinets.

ETA streamlines the design process for engineers with BIM, CAD & CAE data

Providing high-quality digital product data is now a basic requirement for component manufacturers, though the requirements of mechanical engineering differ greatly from those of architecture and electrical design. In mechanical design, for example, the 3D part geometries play a particularly important role, while in electrical engineering connection information and circuit diagram symbols are more relevant. The component must then contain information on the correct dimensioning of the installed components or on the compatibility of connectors, as the case may be.

If this information is not supplied directly with the CAD model, it has to be collected manually from various sources, which can be time-consuming. Therefore, ETA needed a digital solution that centrally manages CAD, CAE and BIM data to provide consistent information. With the new product catalog based on eCATALOGsolutions technology by CADENAS, ETA offers its customers high-quality product data with all the necessary metadata for design. ECOR and ENUX cabinets can be configured and downloaded in 150 of the most popular CAD, CAE and BIM formats.

"ETA developed the new BIM CAD CAE catalog in collaboration with CADENAS to meet the growing demand for digital product data in various formats. "The main benefit of eCATALOGsolutions is precisely the possibility of guaranteeing the comprehensiveness of technical information for our customers, thus implementing internal efficiency and customer service. By the way, at ETA, digital transformation is also this: ease of use of product information and efficiency of the organization and processes for providing it'," says Francesco Basta.

Nordic Paper upgrades to IFS Cloud to drive operational efficiencies and support dynamic growth

12 July 2022

IFS, the global cloud enterprise software company, today announced that Sweden-based speciality paper manufacturer, Nordic Paper, has decided to upgrade its existing on-premise enterprise asset management (EAM) software to the latest IFS Cloud™ solution to drive efficiencies across its global operations. The upgrade will be implemented by IFS channel partner, Novacura, which is also based in Sweden.

The implementation of IFS Cloud will support the digitalisation of operations at Nordic Paper, helping the manufacturer to maximise uptime, enhance security and strengthen maintenance at its Scandinavian paper mills.

Migrating to IFS Cloud will also provide Nordic Paper with a sustainable platform for future growth. The flexibility and agility of the software will enable the company to stay 'evergreen', seamlessly adapting to deliver solutions that are tailored and relevant to its target audiences.

Patric Johansson, IT Manager, Nordic Paper, said: "We were looking for an enterprise asset management solution that delivered enhanced security and operational efficiencies. While we considered other options, IFS Cloud was the intuitive choice.

"We have a long-standing, trust-based relationship with IFS, and we have always been impressed with the quality of their solutions and in-depth expertise in the pulp and paper industry. We are confident that IFS Cloud can play a key role in supporting our ambitions and in ensuring we get our paper products to market quickly and cost-effectively to deliver an optimum customer experience."

Ann-Kristin Sander, managing director, Nordics, IFS said: "Nordic Paper is focused on digitalisation and growth. We are proud that they have chosen to extend the long-term relationship we have built

together by implementing IFS Cloud and are looking forward to working with them and take their speciality paper offering to the next level.”

The solution provides functionality leveraged by a total of 400 users, based either at the manufacturer’s headquarters in Karlstad, Sweden or at one of the company’s paper mills in Scandinavia. Nordic Paper is making use of a wide range of integrated modules that are available within IFS Cloud, including Maintenance; Finance; and Procurement.

Pratt & Whitney Evaluating an End-to-End Solution from Velo3D to Manufacture Production Jet Engine Components

12 July 2022

Velo3D, Inc., a leading metal additive manufacturing technology company for mission-critical parts, announced that Pratt & Whitney, a Raytheon Technologies business, has acquired an end-to-end solution from Velo3D to evaluate the Sapphire printer for manufacturing production jet engine components. This is the first Sapphire printer to be located at Pratt & Whitney; it previously utilized Velo3D’s contract manufacturer network to produce printed and finished parts.

Pratt & Whitney and Raytheon Technologies are experienced and accomplished users of Additive Manufacturing (AM) technologies with extensive knowledge across various platforms and applications. Raytheon Technologies is a launch participant of President Biden’s AM Forward initiative, a new program encouraging companies to explore the use of additive manufacturing to transform supply chains and drive innovation. Raytheon Technologies’ commitment includes seeking small-medium-enterprise manufacturers’ involvement in over 50% of its requests for quotes on products manufactured using additive technologies, as well as seeking to simplify and accelerate the procurement process of AM parts.

“Metal additive manufacturing can transform aviation and space systems by delivering unprecedented part consolidation, lighter weight components, and more efficient systems,” said Benny Buller, Velo3D Founder & CEO. “We’re pleased to see Pratt & Whitney move forward with their own Sapphire XC printer. We’re eager to see how they innovate their most mission critical designs using the end-to-end solution and how the economies of scale of an in-house system help increase addressable use-cases.”

“Pratt & Whitney looks forward to future applications using the Sapphire XC printer, and collaborations with other potential suppliers with the Velo3D capability, for Pratt & Whitney GTF™ and advanced engine programs,” said Jesse Boyer, fellow, Additive Manufacturing, Pratt & Whitney.

The company’s new Sapphire XC printer is calibrated to print in Inconel 718, a nickel-based super alloy well-suited for extreme temperatures.

The Raytheon Technologies Research Center is the company’s central innovation hub where engineers, scientists and researchers explore and develop new, transformative technologies. The center provides the company’s businesses with groundbreaking innovations and solutions to critical customer problems in a wide range of research areas, including complex integrated systems, advanced materials and manufacturing, autonomy-enabling technologies, electrification, and sustainability.

This is made possible by Velo3D’s end-to-end solution, which includes Flow print preparation software, the Sapphire family of printers, Assure quality assurance software, and Intelligent Fusion underlying manufacturing processes. The system uses a set of known recipes to achieve the geometries desired without using supports and monitors the build process layer-by-layer to ensure the highest quality.

PROS Drives Revenue Acceleration Across the Lufthansa Group Airline Network

12 July 2022

PROS® announced Lufthansa Group has chosen PROS as the foundational technology for its Revenue Accelerator Program. In doing so, Lufthansa will align its seven full-service airline networks into a single instance of PROS Revenue Management (RM) and PROS Real Time Dynamic Pricing (RTDP) solutions designed to maximize revenue across every seat, on every flight, every day. PROS proven, industry-leading AI will provide accurate forecasting and offer optimization for unprecedented visibility and unified continuous pricing across Lufthansa's operations.

"It is critical for Lufthansa to have an RM system that adapts and reacts in real-time, providing accurate demand forecasts and creating optimal offers," said Marcus Frank, Lufthansa Group Vice President Commercial Offer & Revenue Management. "Migrating to PROS latest RM and RTDP for the entire Lufthansa Group in a single instance allows Lufthansa Group to have a uniform business process and workflow within all network airlines of the Lufthansa Group."

Within the PROS Platform for Travel, Lufthansa Group will utilize Revenue Management and Real Time Dynamic Pricing solutions, enabling them to create and sell accurate, real-time offers by delivering the right price for each traveler and their travel needs. With advanced forecasting and intuitive, unified workflows, Lufthansa can harness the power of PROS market-leading capabilities for deeper insights and unified, continuous pricing across its seven brands designed to capture more market share and grow revenue. The solution is highly scalable, ensuring it will grow with Lufthansa Group over time.

"PROS is honored to continue our nearly 35-year partnership with Lufthansa Group," said PROS President of Travel Surain Adyanthaya. "Aligning the PROS solution across Lufthansa, SWISS International, Austrian Airlines, Brussels Airlines and Lufthansa Group regional airlines will deliver the operational efficiency and agility needed in today's increasingly complex marketplace. This decision by Lufthansa Group further endorses the value of our next generation revenue management technology."

Vertex Joins John Deere Supply Base

14 July 2022

Vertex Software, Inc., a pioneer in 3D manufacturing visualization and cloud collaboration technology, announces that they have been selected as a supplier to Deere & Company, a leading global manufacturer of agricultural, forestry, and other heavy equipment and an Industry 4.0 innovator.

John Deere employees will use Vertex to access the state of the factory, service needs for equipment, forecast planning, and gather information about how equipment functions in real time. They can access the content on any computing device in seconds, including tablets, laptops, and smartphones.

By pushing 3D information data beyond the engineering department, Vertex's purpose-built software will support John Deere's Industry 4.0 initiatives, including Smart Connected Factory programs, by delivering real-time, actionable 3D data across manufacturing and business operations.

The Vertex 3D Platform dramatically reduces the time, cost, and effort needed to use 3D visualizations across the manufacturing value chain. The platform will help John Deere build and deploy fit-for-purpose apps that deliver decision-making systems with rich, interactive 3D content.

The sheer size and sensitive nature of CAD data, the cost of 3D hardware and software, and the number of data formats and software systems have made it nearly impossible to use 3D product data beyond engineering.

CIMdata PLM Industry Summary

Now, Vertex makes it possible to engage customers, employees, suppliers, and partners with 3D data wherever they are on whatever devices they use. Vertex extends the reach of 3D data to reduce supply chain bottlenecks, accelerate time-to-market, and increase sales by providing easy access to viewable 3D information that enhances productivity and reduces expenses.

“For the first time, manufacturers have a truly effective way to leverage their 3D data assets beyond engineering,” says Dan Murray, CEO & Founder of Vertex Software. “We’re like Netflix for CAD. You can now reach everyone, everywhere, instantly with 3D.”

Product News

Bricsys Teams Up with VREX to Accelerate Virtual Reality Workflow

12 July 2022

Global provider of design software Bricsys, part of Hexagon, announced it is collaborating with virtual reality platform VREX to improve model exchange workflows, allowing users to create detailed models in BricsCAD BIM and export to Vrex Virtual Reality (VR) platform with minimal effort.

The enhanced workflow enables architecture, engineering, construction, and operations (AECO) companies to streamline collaboration between the multiple stakeholders working together on a project in a VR environment. This reduces the potential for errors and miscommunication and helps unlock valuable insights in real time.

The BricsCAD BIM solution leverages OpenBIM and certified IFC (Industry Foundation Classes) workflows, making it easy for Vrex subscribers to virtually meet inside the model, perform visual inspections and exchange buildings and project data in a compliant manner from any location.

Rahul Kejriwal, CEO of Bricsys, says: ‘BricsCAD BIM equips Vrex users with an AI-powered design tool supporting flexible workflows, and feature-rich tools that have an IFC-first approach, paving the way for successful projects and better products. This partnership is another exciting step in our mission of providing industry-leading software solutions as the construction sector continues to digitize’.

Easy to use, both platforms support the exchange of BIM Collaboration Format (BCF) issues via interface services such as BIM Track, BIMsync and BIMcollab to allow easy communication of issues emerging during the virtual meeting to be resolved within BricsCAD BIM.

Hans Fredrik Johansen, CEO of VREX says: ‘Vrex integrating with BricsCAD is another step towards the global BIM integration we want to achieve. With Vrex-BricsCAD anyone, regardless of their experience level, can step into the 3D model and understand them instantly. It allows for crystal clear communication across teams and seamless collaboration in a virtual reality environment.’

CNC Machine Connect Module Achieves New Level of Accuracy to Digital Twins, and Closes the Gap Between Simulation and Machining Environments

6 July 2022

CGTech is excited to announce a new VERICUT module developed in partnership with Scytec: CNC Machine Connect. This new VERICUT module allows users to connect with the CNC machines on their shop floor using Scytec’s DataXchange software. This data can be used to create and maintain more accurate digital twins through VERICUT Machine Configurations (VMCs), as well as confirm that CNC machines and VERICUT simulations match as closely as possible, to eliminate unexpected surprises on the shop floor during machining.

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The current version of CNC Machine Connect available with the launch of VERICUT 9.3 comes with a pre-check capability. Pre-check allows users and machine operators to verify that key aspects of CNC machine and setup information match what was previously verified in VERICUT prior to running the part on the machine. This feature validates critical control parameters that impact machine motion and behavior, main NC program, subprograms, work offsets, cutting tools, and more. Significant differences are clearly identified and can be investigated prior to machining or updated to rerun the VERICUT simulation with data retrieved from the machine to ensure no new problems or unexpected errors are introduced by the current machine setup.

Future releases will add a post-machining capability to provide valuable insight about how NC programs ran on the machine. Users can connect to machines to retrieve current resident data, or access data archived when the machine ran, turning VERICUT into a powerful forensic investigative tool to improve machining processes. Users can identify modifications made to NC programs, overrides used on the machine, and where these occurred during the machining process. This historical data can also be used to investigate potential issues that may have caused poor machining conditions leading to poor part quality or parts out of specification.

CGTech has worked closely with Scytec, an independent machine monitoring software company to create the initial release of this connective capability. DataXchange is currently sold in the U.S. and across the globe. The initial release of the CNC Machine Connect module utilizes Scytec's DataXchange software to connect with CNC machines having modern FANUC controls such as 0i and 31i models. Future plans include connecting with other popular controls such as Siemens, Heidenhain, and more.

“Even after using the best verification software, we recognize that there can still be ‘gaps’ between what was simulated, and the actual CNC machine environment. Such differences have resulted in unpleasant surprises, or damage to the part or machine,” says Gene Granata, CGTech Director of Project Management. “That’s why we’re excited to release a new CNC Machine Connect module in 9.3 that enables VERICUT to connect directly to CNC machines. Through this connection users can enhance their VERICUT digital twins with parameters from the machine, and verify that key setup information match what was previously verified by VERICUT. Any differences are clearly identified, enabling users to investigate further, or update VERICUT with the machine-resident information and reperform the simulation to ensure that no significant problems will be introduced.”

“We see huge gains companies make with machine monitoring,” says Josh Davids, President and CEO of Scytec Consulting Incorporated. “Incorporating VERICUT in the digital transformation journey takes those gains to another level and highlights the value of the digital twin concept and the importance of smart factory technology in the Industry 4.0 era.”

Infor Announces Partnership with Syntellis Performance Solutions

13 July 2022

Infor®, the industry cloud company, announced a new partnership with Syntellis™ Performance Solutions, the leading provider of enterprise performance management (EPM) software, data and intelligence solutions. This partnership will provide Infor's existing and new healthcare customers access to Syntellis' Axiom Healthcare Suite of intelligent planning and performance solutions, giving users robust EPM tools and the market's largest, most timely data-driven insights designed to improve cost of care and operational outcomes for their organizations.

“As healthcare organizations face one of the most challenging and unpredictable economic

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environments in decades, access to powerful analytics and data to improve financial performance is essential to drive enterprise transformation,” said Flint Brenton, CEO of Syntellis. “Infor is an important part of our healthcare customers’ technology ecosystem, and by joining together with another market leader, we can better help customers streamline operations to grow strategically, deliver the highest quality care, and improve patient satisfaction.”

The combined strength of Infor’s offerings and Syntellis’ industry-leading data and intelligence solutions will enable North American healthcare providers to better leverage their clinical and operational data’s value, improve patient outcomes, and monitor and enhance financial performance. By partnering with industry leader Syntellis, Infor aims to further its mission of “connecting the business of healthcare with the mission of healthcare.” Infor customers can achieve this by utilizing the power of a healthcare operations platform to navigate risk-based revenue and improve the patient and employee experience.

“As an organization deeply rooted in the healthcare industry, we understand the importance of a powerful platform for operations to accurately optimize processes for efficiency, accuracy, and long-term fiscal health,” said Kevin Samuelson, CEO of Infor. “In a hospital setting, it is essential to have the right information at the right time, which is only possible with modern, cloud-based applications that are purpose-built for healthcare. Partnering with an industry leader such as Syntellis gives us the opportunity to provide our customers with a solution that can integrate their solutions with other financial tools, to empower better decision-making, which will directly impact patient care.”

Infor and Syntellis will collaborate on future integrations to further help hospitals and health systems streamline data transfer and analysis for greater efficiency and optimized financial, clinical, and operational performance. The synergy between Infor’s Healthcare Operations Platform – namely finance, clinical interoperability, supply chain, human resources, time and scheduling, analytics, AI, automation and data management tools – and Syntellis’ Axiom healthcare cloud solutions that include budgeting, financial & capital planning, cost accounting & decision support, treasury cash management, comparative & clinical analytics, and contract management will empower healthcare organizations to make more informed, data-driven decisions.

Procore Works with AWS to Bring Digital Twins to the Construction Industry

12 July 2022

Procore Technologies Inc. announced it is working with Amazon Web Services (AWS) to leverage AWS IoT TwinMaker to extend the value of construction data into facility operations. The tools AWS IoT TwinMaker provides accelerate the creation of digital twins for buildings, factories, industrial equipment, and production lines.

Procore’s platform serves to connect all construction stakeholders in the lifecycle of a built asset. AWS IoT TwinMaker will allow Procore data to be integrated from design and construction into operations. Procore project owners will be able to incorporate as-built information from Procore with real-time data sources using TwinMaker, extending the value of construction information into operations. This consolidation of information can streamline operations and maintenance and enable lifecycle analysis of portfolio assets.

“We’re very excited about our partnership with AWS. Roughly 80% of the lifecycle cost of a project is in the operations phase,” said Tiffany LaBruno, product director, owners at Procore. “With this partnership we can leverage Procore’s course of construction data during that operations phase to help owners reduce costs, optimize performance, and be better prepared for future project needs.”

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AWS IoT TwinMaker will make it faster and easier to create digital twins of real-world systems. Using AWS IoT TwinMaker, developers can get started quickly building digital twins of devices, equipment, and processes by connecting AWS IoT TwinMaker to data sources like equipment sensors, video feeds, and business applications. Built-in connectors for integration with sensors, 3D visualization, and downstream data analytics are transforming the built environment.

Schneider Electric Creates Professional Education Platform to Address the Data Center Talent Shortage

12 July 2022

Schneider Electric, the leader in digital transformation of energy management and automation, has announced a series of updates to its vendor-agnostic and CPD-accredited digital education platform, Schneider Electric University. Available in 14 languages and accessible globally for free online, the dedicated professional development platform directly addresses the data center sector skills gap, helping industry stakeholders to upskill and stay up to date with the latest technology, sustainability, and energy efficiency initiatives affecting the sector.

To-date, Schneider Electric University has delivered more than one million courses to over 650,000 data center users, with +180 countries represented by its global user-base. The new updates to the Schneider Electric University Data Center Certified Associate (DCCA) qualification include fundamentals of power, cooling, racks, and physical security, and guidance on how to optimize data center designs to drive resilience, energy efficiency and sustainability. It's newest courses, for example, include Optimizing Cooling Layouts for the Data Center; Fundamental Cabling Strategies in the Data Center; Examining Fire Protection Methods in the Data Center; and Fundamentals of Cooling II – Humidity in the Data Center.

Furthermore, its curriculum addresses key focal points for the industry such as Data Center Site Selection and Planning, which offers guidance on how to select brown and greenfield sites for access to renewable energy; Alternative Power Generation Technologies, which helps drive the implementation of renewable energy strategies, on-site power generation and use of technologies such as microgrids; and Battery Technology for Data Centers, which evaluates the sustainability impact of different types of UPS batteries, the benefits of Lithium-Ion technology, and offers an analysis of the associated lifecycle costs.

Addressing the industry skills gap

Research in the Uptime Institute Annual Data Center Survey 2021 estimates staff requirements will grow globally to nearly 2.3 million in 2025. Further, 32% of respondents reported difficulty in retaining staff, with 47% having difficulty finding qualified candidates for open jobs. Attracting and retaining talent within the industry, which is the heart of the digital economy, is now reaching a critical mass.

By encouraging individuals to upskill and continue their professional development for free, the Schneider Electric University is directly addressing the data center industry skills gap and talent shortage, helping businesses to attract, retrain both new and existing talent, and providing access to specialized technical education, everywhere.

“In the last few years data center capacity demands have grown exponentially, reaching record new highs as digitization and cloud adoption accelerates. The sector skills shortage, however, remains a significant challenge and has potential implications for other connected industries,” said Pankaj Sharma, EVP Secure Power Division. “By providing guidance on the latest technology and sustainability initiatives, we believe the Schneider Electric University offers an invaluable resource to

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help bridge the skills gap by empowering business ecosystems, reskilling the workforce, and training the next generation of professionals to build the data centers of the future.”

Long-term commitment to education

Prior to its acquisition by Schneider Electric in 2006, members of the Data Center Science Center at APC™, Schneider Electric’s flagship brand of battery back-up power, surge protection, and IT physical infrastructure for data centers and edge computing environments, created the ‘Data Center University’ as a free resource to help train and upskill the next generation of industry professionals. Their vision was to create a CPD-accredited training curriculum that would support the professional development of industry stakeholders and prepare them to build the data centers of the future.

As ‘Schneider Electric University’, the platform has grown to offer more than 200 data center, energy efficiency and sustainability courses via two dedicated colleges, the Professional Energy Manager (PEM), and the DCCA qualification. All courses are available as self-paced, one-hour modules, in 14 different languages, offering free access to energy education, everywhere. Further, the university is recognized by 25 different industry CPD bodies including BICSI, the Electrical Contractors Association (ECA), Engineers Ireland, and the Renewable Energy & Energy Efficiency Partnership (REEEP).

As one of the industry’s-first dedicated professional development platforms for data centers and energy management, Schneider Electric University has remained completely impartial with all courses maintaining 100% vendor-neutrality. To-date it has delivered over 1,000,000 courses to more than 650,000+ users globally and offers a crucial lifeline for industry professionals seeking to advance their skillsets.

Siemens’ Calibre platform expands early design verification solutions

12 July 2022

Siemens Digital Industries Software announced a range of expanded electronic design automation (EDA) early design verification functionalities for its Calibre® platform for integrated circuit (IC) physical verification. Engineered to help IC design teams and companies get to tapeout faster, these new capabilities can help IC designers "shift left" their physical and circuit verification tasks by moving the identification, analysis, and resolution of complex IC and system-on-chip (SoC) physical verification issues into earlier stages of the design and verification flow.

Identification and resolution of issues earlier in the design cycle can not only help compress the overall verification cycle, but also provide more time and opportunity to improve final design quality. By providing tuned check support for these early-stage analysis, verification and optimization strategies using qualified signoff requirements, Siemens enables design companies to streamline their design processes, improve designer productivity and reduce time-to-market.

“Extending technology leadership in the EDA space requires constant improvement driven by a deep understanding of the specific challenges customers face in their daily work,” said Michael Buehler-Garcia, vice president of Product Management for Calibre Design Solutions, Siemens EDA. “The introduction of these new early design verification capabilities underscores Siemens’ ongoing commitment to providing customers with the very latest technologies they need to quickly deliver world-class silicon products to market regardless as to the stage of the design they are working in.”

Among the new functionalities for the Calibre platform are:

- The Calibre RealTime Custom and Calibre RealTime Digital software tools, which provide in-design, signoff-quality Calibre DRC for custom, analog/mixed-signal, and digital designs. The

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Calibre RealTime interfaces provide direct calls to Calibre analysis engines running foundry-qualified signoff Calibre rule decks, helping to improve both design speed and quality of results by providing immediate feedback on design rule violations and recommended rule compliance. Calibre RealTime Digital now enables in-design fill with Calibre Yield Enhancer SmartFill, enabling designers to get foundry signoff fill from within their design cockpit, while Calibre RealTime Custom has added the ability to automatically track DRC across multiple regions to enable multiple edits to be fixed, tracked and checked simultaneously.

- The Calibre nmDRC-Recon use model in Calibre RealTime Digital provides intelligent, automated analysis of immature and incomplete designs across blocks, macros, and full-chip layouts to methodically find and fix high-impact physical layout earlier in the design and verification flow. Extending the speed and designer debug gains already possible with the nmDRC-Recon use model, Siemens has now added the capability to flexibly “gray-box” out immature cells and blocks, yet still check DRC for interfaces to adjacent blocks or upper-level metal. Gray boxing further accelerates performance and improves designer debug productivity by suppressing nuisance DRC, resulting in up to 50 percent faster runtimes compared to nmDRC-Recon alone.
- Calibre nmLVS-Recon software provides intelligent, automated analysis of immature and incomplete designs for circuit verification use models. With Calibre nmLVS-Recon software, a designer can efficiently perform short isolation (SI) to identify circuit errors. Short isolation mode in Calibre nmLVS-Recon does not require changes to design inputs or foundry rule decks, and executes only the short isolation step of Calibre nmLVS. This can speed up LVS execution by up to 30x, allowing designers to complete several iterations in a day whereas, previously, this might be an overnight execution.

The Calibre nmPlatform tool suite is also differentiated in the EDA industry with its integration across all major IC design and layout implementation tools. This seamless integration enables design teams to easily run Calibre tools at the intellectual property (IP), block/macro, and full-chip levels, all from their custom design or place and route (P&R) design cockpit. In addition, the Calibre platform’s unique viewing and debug capability can result in speed enhancements at all design stages.

Synopsys Delivers Higher Productivity and Quality for Advanced-Node 5G/6G SoCs on Samsung Foundry's Low-Power Process

11 July 2022

Enabling mutual customers to accelerate their development of advanced-node RF designs for 5G/6G applications, Synopsys announced it has developed an RF design reference flow and companion design solutions kit (DSK) that enhance productivity and speed design closure on Samsung Foundry's 8nm RF low-power FinFET process. The 8nm RF design reference flow, which features tightly integrated solutions from Synopsys and Ansys, enhances time-to-results, quality-of-results and cost-of-results for next-generation RF design.

"Samsung's latest RF solution, the 8nm RF process technology, could massively improve the performance and power efficiency of 5G communication chips," said Sangyun Kim, corporate vice president of the Foundry Design Technology Team at Samsung Electronics. "We are pleased that the 8nm RF design reference flow and design solution kit that we developed in close collaboration with Ansys and Synopsys will support our mutual customers in meeting the demands of growing design complexity in today's hyper-connected world."

Enabling Greater Connectivity in Our Digital World

Advanced-node analog and RF designs are integral to the applications fueling our digital world of smart everything. However, it can be complex and time-consuming to design these chips to meet the bandwidth and latency requirements of applications like 5G/6G, automotive and high-performance computing. Available today, the 8nm RF design reference flow streamlines the process with features that deliver faster layout design turnaround time with industry-leading circuit simulation and layout productivity performance, as well as accurate electromagnetic (EM) modeling. The reference flow documents a proven methodology for RF design with Synopsys and Ansys tools that spans schematic design, simulation, layout, extraction, electromagnetic (EM) simulation and physical verification. The associated DSK includes a set of application notes, tutorials and design examples that cover advanced design methodology topics, including:

- In-design parasitic analysis – the ability to measure parasitics on canvas using signoff tools during layout
- On-chip inductor design – the ability to generate inductor devices with Ansys VeloceRF™ integrated with Synopsys Custom Compiler™ design and layout environment
- Partial layout extraction and simulation – the ability to do parasitic simulation using parasitics extracted from partially completed designs to get early feedback of the parasitic impact on designs
- Design reuse with templates – the ability to create high-quality layout in less time by using Synopsys Custom Compiler layout templates

Key elements of the flow include the Synopsys Custom Design Family of products, featuring the Synopsys Custom Compiler™ design and layout product, Synopsys PrimeSim™ circuit simulation product, Synopsys StarRC™ parasitic extraction signoff product and Synopsys IC Validator™ physical verification product; Ansys VeloceRF inductive component and transmission line synthesis product; and Ansys RaptorX™ and Ansys RaptorH™, the advanced nanometer EM analysis products.

"Ansys is excited to collaborate with Synopsys and Samsung on an advanced reference flow for RF design," said Yorgos Koutsoyannopoulos, vice president of Research and Development at Ansys.

"Working seamlessly with the Synopsys Custom Compiler design and PrimeSim simulation solutions, Ansys inductor design and EM extraction tools have the highest capacity to handle the most challenging designs as well as the ability to model all advanced process effects and enable a complete end-to-end RF design flow. Together, we're delivering an intuitive and easy-to-use flow for the design, optimization and verification of RF design blocks."

"Synopsys and Samsung have a history of working closely together to enable our mutual customers to achieve smooth and productive design workflows for the latest Samsung technologies," said Aveek Sarkar, vice president of Engineering at Synopsys. "Tapping into our close ties with Ansys, this new RF design reference flow and DSK streamlines the process for developing the advanced wireless systems that will continue to drive our smart everything world."

Tower Semiconductor and Cadence Expand Collaboration to Accelerate Automotive IC Development

14 July 2022

Cadence Design Systems, Inc. and Tower Semiconductor, the leading foundry of high-value analog semiconductor solutions, announced a collaboration to advance automotive and mobile IC development.

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Through the collaboration, the companies are developing a new, comprehensive automotive reference design flow using the Cadence® Virtuoso® Design Platform and Spectre® Simulation Platform to provide customers with a faster design cycle, maintaining comprehensive design verification for advanced automotive IC product development.

The unique design challenges and analysis characteristics of automotive ICs require a carefully crafted combination of technologies and methodologies in order to satisfy the demanding ISO 26262 specification. By working to combine Cadence and Tower technologies, mutual customers can meet automotive design goals and achieve a faster path to ISO 26262 certification.

“Cadence and Tower have successfully collaborated for many years, delivering solutions for RF and silicon photonics, which help our mutual customers develop advanced offerings,” said Dr. Anirudh Devgan, president and CEO of Cadence. “The mutual work we’re doing on the automotive reference flow focuses on enabling customers to develop critical automotive ICs, leveraging an integrated workflow using an all-Cadence toolset and a Tower reference design to develop compelling products faster.”

“Our long-term partnership and collaboration with Cadence has enabled us to continuously provide our customers with leading-edge design tools that allow the development of innovative analog ICs that have been co-optimized with the package they reside in,” said Russell Ellwanger, Tower Semiconductor CEO. “This new reference flow provides our customers with a functional toolset for the development and manufacturing of high-performance ICs meeting the high quality and reliability demands of the automotive market and is another testament to our strong commitment to delivering advanced technology solutions that proficiently address our customers’ current and future needs.”

Tower Semiconductor offers a broad range of advanced analog technology platforms addressing the automotive market. These include image sensor, RF, and SiPho for ADAS systems, mixed-signal and advanced analog for multiple application-specific ICs and power management platforms enabling battery management systems, motor drivers, onboard chargers, and power converters for the fast-growing EV market. The new reference flow further solidifies the Company’s comprehensive automotive offering.

The Cadence and Tower collaboration supports automotive SoC design and the broader Cadence Intelligent System Design™ strategy, which enables customers to achieve SoC design excellence.