

Contents

<i>CIMdata News</i>	3
CIMdata Publishes White Paper: “Agile Development: Supporting the Aerospace & Defense Industry”	3
Enabling Enterprise Agility for Development of Complex Products–TCS’ Approach – a CIMdata Commentary	3
<i>Acquisitions</i>	8
Ansys Acquires Phoenix Integration, Inc.	8
NTT DATA to Acquire Nexient, Growing its Application Development & Modernization Capabilities	10
Siemens accelerates digital marketplace strategy with acquisition of Supplyframe.....	10
<i>Company News</i>	11
Accenture Launches Its Fifth Annual HealthTech Innovation Challenge for Emerging Innovators and Disruptors	11
Agiloft Joins Tableau as a Technology Partner to Advance Integrations and Data Analysis Capabilities.....	12
Ansys Ushers in a New Era of Online Learning with Cornell.....	13
HCL EXPANDS INVESTMENT IN THE UNITED KINGDOM	14
Hexagon’s Manufacturing Intelligence division opens Technology Center in Montreal, Canada	14
Infosys Collaborates with the Centre for Accessibility to Inspire Better Digital Access for All	15
Majesco Collaborates with Infosys to Accelerate Digital Experience for Insurers	16
Oxford University and Oracle Partner to Speed Identification of COVID-19 Variants	16
Synopsys Unveils Technology Alliance Partner Program, Adds Integrations for Application Security Orchestration Solution at RSA Conference	17
Tech Mahindra Announces Appointment of ‘Wellness Officer’	19
Vectorworks, Inc. Announces Regional Design Scholarship Winners.....	20
<i>Event News</i>	21
Altair Future.AI Global Event to Demonstrate How Artificial Intelligence and Analytics Accelerate Digital Transformation	21
Altair to Host Technology Conference and Showcase Simulation Solutions for Composites at JEC Composites Connect	21
IMAGINiT Technologies’ ELEVATE Virtual Event Offers Transformative Insights for AEC and Manufacturing.....	22
Introduction to Coreform Cubit	23
OpenText Drives Cloud Growth across the Asia Pacific Region	24
ShareAspace Forum 2021 is here!	25
<i>Financial News</i>	26
Synopsys Posts Financial Results for Second Quarter Fiscal Year 2021	26
<i>Implementation Investments</i>	28
ATCO Australia Pivots to the Cloud with OpenText	28
AVEVA Paves the Way for Henkel to Drive Sustainability Throughout its Global Supply Chain	29
Bentley and ESI Group work together to refine the Flying Spur through a sustainable design process	30
BGZ brands Teams up with Centric Software to Control Complexity and Govern Growth	31
DISH Wireless Selects Oracle for 5G Core Service-Based Architecture	31
Hoist Finance Selects LTI’s Digital Banking Platform to Achieve Accelerated Growth in Europe	32
Hotel Am Triller Welcomes the Infor Cloud.....	33
Investing in the Guest Experience: Wyndham Becomes First Major Hotel Company to Begin Rollout of	

CIMdata PLM Industry Summary

Oracle’s OPERA Cloud Globally	34
JVCKENWOOD Deploys Cadence Spectre FX Simulator and Comprehensive Design Flows to Improve Productivity.....	35
Kanko Selected Fashion On Demand by Lectra for School Uniform Production	36
Katech develops digital replica of Daegu city to enable autonomous vehicle certification and policy development.....	37
Midwest Wheel Boosts Customer Service with Infor Coleman AI-Driven Parts Recommendations	39
SAP DATA ANALYTICS HELPS MEASURE HOW FOOTBALL IS CHANGING LIVES.....	40
Vaillant Group Selects DXC Technology to Help Shape the Heating Market of Tomorrow.....	40
Product News.....	41
"BETA CAE Systems announces the release of the v20.1.6 of its software suite"	41
‘SOAR with Accenture’ Takes RISE with SAP Transformations to New Heights.....	43
Agiloft Launches Module Add-On to CLM Platform for Improved Sourcing and Supplier Information Management	45
Altium Advances Electronic & Mechanical Co-Design	46
Bechtel adds Dropbox to portfolio.....	47
CADfix PPS Solution Boosts AVEVA E3D Design Performance.....	47
Centric Software Launches Next Generation of Food & Beverage PLM.....	48
Festo shines with Golden Catalog Seal by CADENAS: Award-winning digital 3D CAD product catalog ...	50
Hexagon enhances geocoding capabilities, connects to what3words to boost location capabilities for emergency calls	51
L&T TECHNOLOGY SERVICES DEVELOPS AN AI BASED SOLUTION	51
TCS Launches Cloud-Based Intelligent Subscription Solution for Media Companies to Enhance Customer Experience and Increase Revenue	52
Update available: ALLPLAN publishes project template for BIM-based platform design with ALLPLAN 2021	53
Uptake Fusion Cloud Datastore for OSIsoft PI Now Available on Microsoft Azure Marketplace.....	54

CIMdata News

CIMdata Publishes White Paper: “Agile Development: Supporting the Aerospace & Defense Industry”

19 May 2021

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces the publication of a new white paper that describes the rationale, feasibility, and potential benefits of applying agile approaches to Aerospace & Defense (A&D) product development. The paper outlines the driving characteristics of A&D product development, an overview of an agile product development approach, an illustrative example of how one company applied agile development in A&D, and how Siemens Digital Industry Software’s technology and solutions enable this approach.

A&D products and systems are extremely complex, have long service lives, and must function in a wide range of harsh and demanding environments. These products and systems generally push the boundaries of available technology and design in the areas of materials, electronics, software, functionality, speed, fluid flow, etc. Additionally, many A&D products are highly regulated and often subject to extreme operating conditions where any type of product failure could lead to catastrophic consequences. Because of this range of complexity, A&D development cycles have evolved to be formal (e.g., using major stage gates in a waterfall development paradigm) and drawn out. The United States DoD has recognized the need for accelerated and incremental development and acquisition processes and is now implementing a paradigm shifting initiative to achieve those goals.

Mr. Ken Amann, Executive Consultant, CIMdata, stated that “To improve their development processes, A&D companies need to undergo a digital transformation in process definition, enablement, and execution. Traditional product development paradigms are being replaced by a more modern, agile approach that offers greater flexibility and more responsiveness as mission scope and market demands change. Agile development is an iterative and incremental process that is responsive to change and is designed to reduce the overall cost and timeline of development. The Siemens Product Design and Engineering digital thread solution for A&D includes the tools and technologies needed to assist A&D companies transitioning to a more digitalized process and establishing a more agile product development environment to address the complexities and challenges of today.”

Please download and read the complete white paper at <https://www.cimdata.com/en/resources/complimentary-reports-research/white-papers>.

Enabling Enterprise Agility for Development of Complex Products—TCS’ Approach – a CIMdata Commentary

18 May 2021

Key takeaways:

- Competitive pressures are increasing faster than ever, driving manufacturers to move beyond lean to a more value driven approach, fueled by adaptability and empowerment.
- The agile approach is well developed for software and is rapidly emerging as a methodology to develop manufactured products and respond to change by identifying and leveraging marketplace opportunities.

CIMdata PLM Industry Summary

- Agility is a paradigm shift—TCS’ approach to Agile Product Development for Manufacturing is holistic and uses a multi-dimensional approach to guide an organization step-by-step along the journey.
- TCS’ agile approach has been matured based on the imperatives of a variety of customers including automotive and industrial OEMs and Tier 1 suppliers. Agility is a significant capability outcome for manufacturers who adopt Neural Manufacturing[1] which has seen accelerated adoption due to the COVID-19 pandemic.

New products are always exciting, whether for consumer or business customers. It’s just human nature to get excited about something potentially better. Within competitive landscapes such as the automotive and industrial equipment markets, CIMdata sees massive, rapid product changes and new entrants disrupting markets. Electrification, ubiquitous connectivity, and autonomy are the major trends driving the changes and opportunities. In the emerging business models, purpose driven ecosystems are playing a critical role as they evolve to deliver the full scope of customer requirements.[2]

Adapting to trends and disruptions creates significant risk for established companies, who often struggle to adapt quickly. While lean manufacturing is a common improvement strategy, just taking waste out of the production system or even the administrative processes is not enough to maintain competitiveness. Startups are often more flexible and adaptable. Complex products such as automobiles, transportation systems, and complex machinery require scalable, well-defined processes and excellent execution in addition to advanced technology.

One of the biggest risks in product development is a market shift during the product development timeline. Hardware development still primarily uses a phase-gate or waterfall approach centered around pre-prototype, prototype, and production physical builds to verify the product, manufacturing, and supply chain processes. For complex products with a development timeline of 1 to 3 years or more, a change in the market landscape or customer requirements can be catastrophic. While there are many islands of automation including MBSE, CAE, and virtual commissioning solutions that can shorten timelines these technologies are commonly implemented within the context of the current phase-gate approach.

Manufacturing companies have been investing significantly in software enabled products to make them connected and intelligent. As software becomes an integral part of a product’s architecture, its development must be tightly coupled with hardware development, necessitating elimination of data and process silos. Many of CIMdata’s customers note that software development controls the critical path in their product development process. Software development typically follows an agile dialect and gets functionally tested during the development cycle. To stay competitive, manufacturers need to reduce their dependence on physical build milestones and leverage techniques used to develop software. Incremental development methodologies such as agile can reduce product development risk and speed the incorporation of new technology and features.

Agile Development

Over the last 20 years, variants of the agile development process have become dominant in modern software development. Agile methodologies dominate commercial software development especially in cloud related applications and have made significant inroads in enterprise software development. The incremental delivery shortens the feedback loop minimizing the risk of missing changes in customer requirements. While CIMdata has noticed that industrial embedded software development still lags somewhat, this discipline is now beginning to adopt agile principles rapidly due to the well understood benefits as well as advancing electronic hardware capabilities.

CIMdata PLM Industry Summary

The agile methodology has advanced over the past few years into overall product development within industrial companies. Management has recognized the benefits in the software world and is trying to leverage those processes and knowledge to improve hardware and physical product development. Standups, sprints, epics, and user stories are agile software development terms being adopted broadly within broader product development. An important difference between software and hardware is testing. Historically, physical testing was needed for physical products. The issue of getting to a testable physical product or even element of a product takes time as the parts to assemble the physical product need to be produced. When parts need to change, the production cycle needs to be repeated taking yet more time. Virtual analysis and testing using analysis software can occur in near-real time enabling rapid feedback, issue identification, and resolution. The inertia of the physical world makes adaption of agile processes complex and slower than with a pure software product.

Agile for Manufactured Products

As companies try to improve, they are more and more often evaluating their product development process. Growing complexity is driving companies to change, and CIMdata has observed model-based systems engineering (MBSE) as the approach being adopted to address complexity. By automating the well-defined approach of systems engineering, MBSE is enabling companies to restructure product development operations to manage complexity and reduce risk. Applying the agile concept to MBSE increases the velocity of learning within an organization reducing the risk of a product missing customer requirements. As software content grows in products and increasingly provides differentiation, it is becoming natural to structure products as building block features that are combined to meet requirements. The features and the interfaces between features are managed as functional and logical items that are realized as physical items. Within this construct features are systems and products are systems of systems.

A powerful concept in agile software development is minimum viable product (MVP). A MVP is a version of a product with just enough features to be usable by early customers who can then provide feedback for future product development. Getting a product with the core set of features into user's hands for evaluation enables the product developers to learn what works and what doesn't. Requirements are then updated, feature definitions modified, and the next iteration of MVP developed and delivered.

Agile concepts were initially developed for software, but many are applicable, and adaptable to hardware development. They work very well for systems that have both hardware and software. Agile also provides the opportunity for manufacturers to add features in subsequent releases which traditionally are tied to a single product launch date.

CIMdata PLM Industry Summary

Customer and market expectations are increasingly changing faster than the development lifecycle, causing a backlog of late changes and disrupting product launches

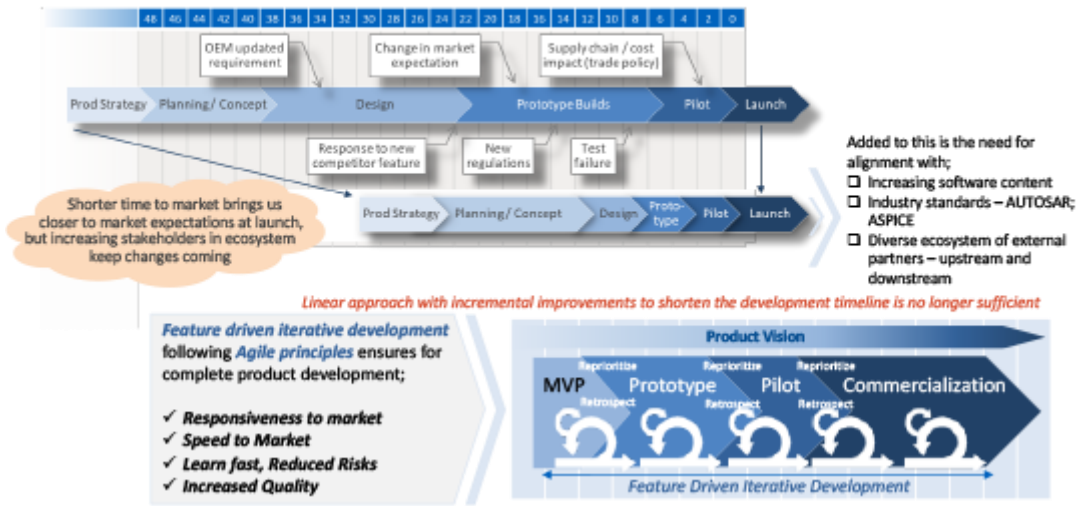


Figure 1—The Iterative Development Process as Applied to Complex Products
(Image courtesy of TCS)

TCS’ Approach

Tata Consultancy Services (TCS), a leading global IT services, consulting, and business solutions organization has been using agile for software development and MBSE for years and has been working with clients to help them adopt both practices. “TCS has been working with global companies in the Engineering and Product Development arena. As businesses continue their quest to delight customers with innovation in their products and services, Agile Product Development provides the critical lever to balance speed to market, flexibility, adaptability, and profitability. TCS AutoAgile and IndustrialAgile are custom-tailored frameworks to significantly improve the outcomes for respective businesses.” said Mr. Regu Ayyaswamy, Global Head, Internet of Things & Engineering Services, TCS. These products are based on some of the concepts recently published by TCS in a white paper entitled Neural Manufacturing—The next step in the evolution of location-independent agile manufacturing. TCS defines Neural Manufacturing as an intensely networked set of partners aligned to a common purpose, where value chains are responsive, adaptive, and personalized, with intelligence built on the ‘edge’ of networks.

An engagement to deploy agile product development consists of three phases—assessment, model customization, and model adoption.

Assessment Phase

The assessment phase shown in Figure 2 shows the categories and dimensions used to evaluate client operations.



*Figure 2—TCS' Assessment Dimensions for Agile Product Development
(Image courtesy of TCS)*

CIMdata agrees with TCS that the successful implementation of agile product development requires more granularity than the typical people, process, and technology criteria. TCS' model has a well-defined set of dimensions and sub-dimensions that must be addressed to successfully transform. During CIMdata's discussions with TCS, they reviewed examples demonstrating the application of agility to complex physical products including the shift several automakers made from producing automobile systems to ventilators to support the response to COVID-19 and noted how they applied automation to speed assessments. A key point TCS emphasized was that culture is the dominant dimension, so ensuring a robust organizational change program to support the transformation is a critical success factor. Every organization has its own strengths and weaknesses. At one US auto OEM, TCS noted that they focused on governance and ways of working.

Model Customization Phase

Within the model customization phase, TCS uses the characterization developed from the assessment to tailor their tool framework to fit a client's needs. Tools support product decomposition into features, organizational alignment and role decomposition, and MVP feature lifecycle. In the development of these tools, TCS has studied well known industry leaders and also leveraged their own decades of experience. Decomposing physical products into features is analogous to epics and user stories in software development. CIMdata sees this as a good way to transfer understanding from software development to product development.

Model Adoption Phase

The final deployment phase is model adoption. Of course, TCS' process follows an agile approach. Capabilities are built and rolled out incrementally across an organization through piloting, expansion, and sustainment phases. Mr. Gary Bandurski, GM Executive Director of Global Electronic Components

CIMdata PLM Industry Summary

and Subsystems commented: “GM is rolling out SAFe practices and principles throughout our product development process to improve our business agility. This approach to feature development enables our engineering teams to swiftly meet and exceed customer expectations.” Scalable Agile Framework (SAFe) is GM’s chosen agile dialect. Figure 3 shows the milestones of the deployment process.

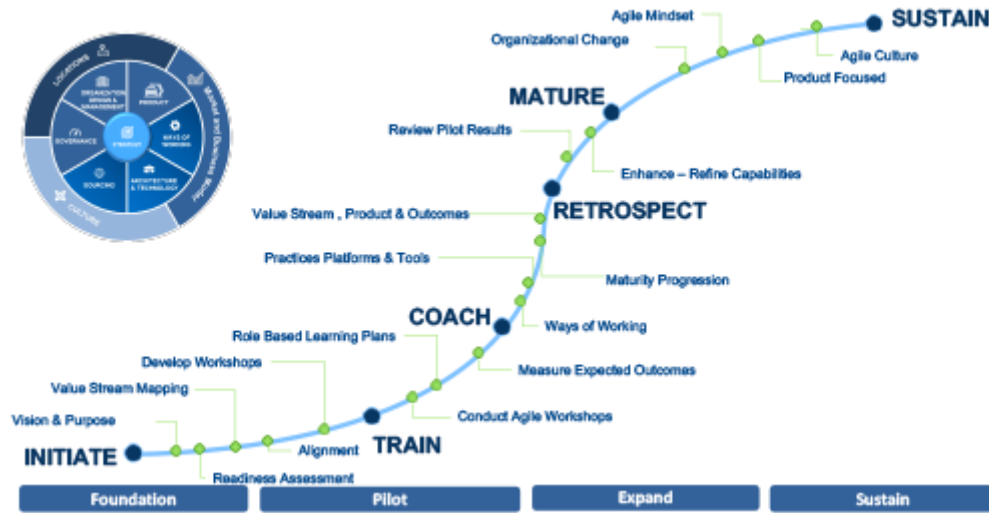


Figure 3—TCS' Deployment Approach for Agile Product Development
(Image courtesy of TCS)

Conclusion

As companies compete, they are always looking for advantages. Today, market competition shifts and advances at a never before seen pace, and traditional manufacturing focused improvement processes such as lean and Six Sigma are not sufficient to ensure success. TCS, an automotive and industrial manufacturing thought leader, is rolling out an offering to support the implementation of agile that supports full product development rather than just software development. The approach complements MBSE, a well understood product development methodology. CIMdata recognizes the value of combining these approaches and applauds TCS’ initiative in bringing this offering to market. While TCS’ initial launch is focused on automotive and industrial companies they note that the approach is generally independent of industry vertical and can be adapted to a wide range of industries. CIMdata recommends that companies looking to ensure their products hit their target markets effectively check out TCS’ approach to agile product development.

[1] <https://www.tcs.com/content/dam/tcs/pdf/Industries/manufacturing/abstract/neural-manufacturing-covid-19.pdf>

[2] Research for this commentary was partially supported by Tata Consultancy Services.

Acquisitions

Ansys Acquires Phoenix Integration, Inc.

17 May 2021

Acquisition deepens Ansys offering for model-based systems engineering.

CIMdata PLM Industry Summary

Key Highlights

- Ansys acquires Phoenix Integration, Inc., the premier provider of software that enables model-based engineering and model-based systems engineering
- Acquisition complements Ansys' acquisition of Dynardo GmbH in the process integration and design optimization space and Analytical Graphics, Inc. in A&D
- Acquisition is not expected to have a material impact on Ansys' consolidated financial statements in 2021

Ansys, the global leader and innovator of engineering simulation software, announced today that it has acquired Phoenix Integration, Inc. the premier provider of software that enables model-based engineering (MBE) and model-based systems engineering (MBSE). The acquisition will expand the scope of Ansys' solution offering, enabling users to connect a range of engineering tools together in multi-tool workflows for broad and robust model-based engineering. Terms of the deal were not disclosed. The acquisition is not expected to have a material impact on Ansys' consolidated financial statements in 2021.

Engineers and designers use a variety of disparate software tools during the product development process. These tools are rarely connected, resulting in highly manual engineering and change processes, often managed through email and spreadsheets, which lack traceability. MBE enables the automation of these processes and helps to tame that complexity. MBSE provides traceability to requirements through the use of a systems model as a single source of truth for describing the evolving system design throughout its product lifecycle.

Phoenix Integration's ModelCenter is a vendor-neutral software platform that empowers engineers to create and automate multi-tool workflows, providing increased flexibility to solve challenging engineering problems, and ultimately delivering on the promise of MBE. ModelCenter MBSE bridges the gap between engineering analysis and the systems model, ensuring that the product requirement is met and in sync with the engineering analysis conducted throughout the product development process.

The Blacksburg, Va., company's software is used by a variety of customers across industries and is particularly prevalent in the aerospace & defense sector. Long-term customers include Lockheed Martin, Northrop Grumman, SAIC, Raytheon, NASA, the US Air Force and the US Navy. Phoenix Integration is also a longtime partner of Analytical Graphics, Inc., which Ansys acquired in 2020.

"Companies across industries are benefitting from process integration and MBSE through improved communications, increased product quality and heightened productivity across their engineering teams," said Shane Emswiler, senior vice president of Ansys. "Acquiring market leader Phoenix Integration will complement our acquisition of Dynardo in the process integration and design optimization space, and expand our capabilities providing customers with strong MBE and MBSE offerings to further our pervasive engineering strategy. I am excited for Phoenix Integration to join the Ansys team."

"Phoenix Integration has seen firsthand the benefits that engineering simulation and MBE have in transforming the product development process," said Jane Trenaman, president and CEO of Phoenix Integration. "We are looking forward to joining forces with Ansys to help our existing customers benefit

CIMdata PLM Industry Summary

from expanded access to physics-based simulation within their model-based engineering workflows, and we are excited to see the ModelCenter platform provide increased value to the Ansys community."

NTT DATA to Acquire Nexient, Growing its Application Development & Modernization Capabilities

18 May 2021

NTT DATA Services, a global digital business and IT services leader, has entered an agreement to acquire Nexient, a cloud-native company that will expand NTT DATA's differentiating transformation, modernization and cloud app development experience. Nexient will serve as a scalable anchor for NTT DATA's Application Development & Modernization practice, adding user-centric full stack product development capabilities and speeding the ability to offer sophisticated digital transformation services to clients, including digital product strategy, product design and development, and platform transformation.

Nexient brings product mindset and highly prized agile software development talent to NTT DATA's clients. Its U.S.-based delivery complements NTT DATA's global delivery, providing a differentiator by ensuring clients have easy access to delivery-center based, 100% agile, product teams in NTT DATA Services' largest market. NTT DATA will continue to partner with global clients and deliver solutions from its global delivery network to meet their needs.

Nexient will become part of a top six global IT services leader with vast resources. Its clients will benefit from access to global R&D and ongoing investments in digital transformation services, and its employees will have access to expanded career opportunities.

"Application Development and Modernization is a critical and fast-growing piece of the digital transformation value chain. With Nexient's agile, product-minded development disciplines, we're better equipped to help our clients quickly take advantage of digital innovations," said Eric Clark, Chief Digital & Strategy Officer, NTT DATA Services. "NTT DATA is investing to grow our business and our digital expertise through hiring, training and R&D, as well as targeted acquisitions of best-in-class, digital companies. Nexient is the next step in this strategy and a great addition to our team."

"Nexient's product-minded agile development approach has earned our clients' trust to solve their complex business problems," said Mark Orttung, Nexient CEO. "Building on our commitment to operate within our core values, leadership competencies, and team-based approach, we are excited to join NTT DATA and expand the scope and value of the services we deliver to our clients."

Nexient supports NTT DATA's strategy to be the preferred digital partner in the market by providing proactive innovation, thought leadership and delivery excellence to help clients succeed by expanding the scale and scope of NTT DATA's Digital Application Development & Modernization services.

White & Case LLP acted as legal counsel to NTT DATA, Stubbs, Alderton & Markiles, LLP acted as legal counsel to Nexient and RBC Capital Markets acted as financial advisor to Nexient. The transaction is subject to customary closing conditions, including regulatory approval and is expected to close next month.

Siemens accelerates digital marketplace strategy with acquisition of Supplyframe

17 May 2021

Siemens has signed an agreement to acquire Supplyframe, a leading Design-to-Source platform for the global electronics value chain, for USD 0.7 billion. The transaction unlocks significant value for customers of Supplyframe and Siemens, providing seamless and quick access to both Siemens' offerings and Supplyframe's marketplace intelligence. This will help customers to reduce costs, increase agility and make highly informed decisions. The acquisition also strengthens the Siemens portfolio through

CIMdata PLM Industry Summary

Software as a Service (SaaS) – not only in the field of Electronic Design Automation (EDA) and Printed Circuit Boards (PCB), but also scaling into other domains and technology fields.

"We are very pleased to welcome Supplyframe's highly innovative and talented team to the Siemens family. Supplyframe will be the nucleus to accelerate our overall digital marketplace strategy," said Cedrik Neike, member of the Managing Board of Siemens AG. "Supplyframe's ecosystem and marketplace intelligence complements our industrial software portfolio perfectly and strengthens our capabilities for the growing market of small- and mid-size customers."

"Eighteen years ago, we set out on a journey to intelligently connect the extended electronics value chain. It took both a dedicated team and a visionary customer base to gradually turn our vision into reality. This process has been further accelerated by the recent component shortage environment, which has exposed the fragility of supply chains and created a mandate for digital transformation and intelligent decision making. I am thrilled to join forces with Siemens to scale our innovation and drive broader adoption of our DSI solutions globally. This is an amazing outcome for our customers, partners and employees," said Steve Flagg, CEO and founder of Supplyframe.

Supplyframe has created a strong Design-to-Source Intelligence (DSI) ecosystem with over 10 million engineering and supply chain professionals worldwide, transforming how businesses design, source, market and sell products in the global electronics value chain. Supplyframe's SaaS offerings have been growing with ca. 40% p.a. over the last years, a rate that is expected to continue mid-term.

Siemens will realize significant synergies between Supplyframe's capabilities and its own portfolio with an expected USD mid-triple digit net present value. EPS accretive pre-ppa in second year after closing. Steve Flagg will continue as CEO of the company and join the Siemens Digital Industries Software senior leadership team.

Founded in 2003, Supplyframe is headquartered in Pasadena, California with offices in the USA, China, France, Serbia and the UK. The expected revenue of Supplyframe for the fiscal year 2021 is around \$70 million with profit margins typical for the software business.

Closing of the transaction is subject to customary conditions and is expected in the fourth quarter of fiscal year 2021.

Company News

Accenture Launches Its Fifth Annual HealthTech Innovation Challenge for Emerging Innovators and Disruptors

17 May 2021

Accenture today opened the application period for the fifth annual [Accenture HealthTech Innovation Challenge](#), which seeks to support innovative solutions for improving the way people access, receive, manage and finance healthcare in North America.

Now in its fifth year, the Accenture HealthTech Innovation Challenge brings healthcare organizations and start-ups together to tackle the world's biggest health issues. The industry is at a pivotal moment, and the health leaders of today and tomorrow will be those that can harness the power of technology and human ingenuity to put the human at the heart of everything they do. To apply, health start-ups will find the submission form, including additional details about the challenge's criteria, eligibility, and requirements at [Accenture HealthTech Innovation Challenge](#).

"Each year we look forward to the new solutions that innovative start-ups develop for healthcare

CIMdata PLM Industry Summary

organizations to improve health outcomes and health operations,” said [Brian Kalis](#), managing director of digital health and innovation at Accenture. “The past year the pandemic presented many challenges, but it also accelerated the adoption of digital technology that helped deliver better healthcare experiences for consumers and clinicians. We look forward to exploring the novel ideas that emerging start-ups are bringing to the market.”

“The Accenture HealthTech Innovation Challenge identifies startups who are solving healthcare industry challenges in unique ways,” said Shally Pannikode, SVP and CIO with Humana. “There is an appetite for new ideas and this year’s cohort really have an opportunity to question the status quo with solutions that improve healthcare outcomes.”

Emerging healthcare technology innovators and disruptors that provide their services and solutions in North America are encouraged to apply for the program. Submissions from eligible companies will be accepted through 11:59 p.m. ET on July 2nd. The three categories for this year’s Accenture HealthTech Innovation Challenge are:

- **Increased Access:** Solutions that can expand access to services and treatments for health organizations. Examples include virtual care, digital therapeutics, home and remote healthcare delivery models, and new care models for underserved needs.
- **Consumer & Clinician Experience:** Solutions that can create positive consumer and clinician experiences. Consumer experience examples include solutions that improve wellbeing, care coordination, disease prevention and chronic condition management.
- **Operational Efficiency:** Solutions that look to increase enterprise efficiency and core day-to-day processes. Examples include back office solutions, and patient, data, and distribution management.

Accenture is seeking applications that are focused on healthcare organization buyers. Key criteria for applicants include desirability (customer need), viability (business model), feasibility (scalability), and purpose. Health organizations are defined as public health entities, private payers, provider systems, delivery networks, retail health companies and organizations that participate in the healthcare delivery and payment ecosystem.

Selected finalists will present to an exclusive panel of judges comprised of senior executives from globally recognized health companies at a virtual event to be held on September 28.



[Click here to return to Contents](#)

Agiloft Joins Tableau as a Technology Partner to Advance Integrations and Data Analysis Capabilities

13 May 2021

Agiloft, the global standard in no-code contract lifecycle management (CLM), announced it joined Tableau, the world's leading analytics platform, as a technology Partner. The partnership allows for enhanced integration between Agiloft and Tableau for improved data visualizations and analysis of contract management data.

As both a Salesforce and Tableau partner, Agiloft fully offers an end-to-end, sell-side and buy-side contract management solution that enables bi-directional integration with Tableau for powerful reporting and analytics.

With its unmatched configurability and robust AI capabilities, Agiloft's no-code platform was built to manage and integrate the commercial processes that surround contracts. CLM helps organizations drive

CIMdata PLM Industry Summary

long-term revenue growth, maintain cost discipline, and reduce security and compliance risk through monitoring contract obligations and performance across departments, and by integrating enterprise-wide commercial data.

Agiloft's native reporting capabilities are robust, and its out-of-the-box Tableau integration offers even more advanced data analytics capabilities, making it easier for organizations to build reports and dashboards, and generate actionable insights from their contract data. Through the new partnership, Agiloft aims to develop a more robust connector to allow customers to easily connect Agiloft and Tableau.

"Tableau is a powerful platform that makes business analytics fast and intuitive, and we are very excited to be adding them as a technology partner," said Elisabeth Bykoff, VP of Agiloft Global Alliances.

"This partnership reflects our commitment to continually add new tools and advanced integrations for increased enterprise productivity and customer success. It also allows us to integrate more tightly with the Salesforce ecosystem."

"Agiloft is recognized as a leader in the contract lifecycle management software market for its innovative, easy-to-use and highly customizable solutions," said Brian Matsubara, RVP of Global Technology Alliances at Tableau. "Combining Tableau's powerful self-service analytics platform with Agiloft's no-code CLM platform will help enterprises to analyze contracts quicker and make smarter decisions, faster."

Ansys Ushers in a New Era of Online Learning with Cornell

20 May 2021

Ansys and Cornell University's Sibley School of Mechanical and Aerospace Engineering are transforming online engineering curriculum with new simulation-based online courses. The collaboration satisfies the increased demand for remote learning and brings simulation software to the forefront of teaching.

As graduating engineers and young professionals face demanding positions and high expectations in the workplace, Cornell and Ansys are arming them with access to world-class simulation education. Through this collaboration with Cornell, Ansys lowers the barrier for simulation education and equips a new era of engineers to succeed within advanced engineering teams, who increasingly leverage simulation to solve complex engineering problems.

Cornell will design and develop courses while Ansys provides support for the inclusion of real-world application examples and detailed technical write-ups of problem formulations, engineering assumptions, simulation approaches and results interpretation. The courses' flexible format enables participants to complete the curricula on their own timelines. Courses will be offered for both students and professionals seeking to bolster their skillsets. Additionally, Cornell has chosen the Ansys Innovation Courses platform to host their existing SimCafe tutorials. Cornell will work closely with Ansys to migrate all of their tutorials to the Innovation Courses learning structure, resulting in more than 50 new Cornell courses, adding to the more than 75 existing Ansys Innovation courses.

"Simulation is a disruptive technology that can be used to transform engineering curriculum at the university level," said Rajesh Bhaskaran, Swanson director of engineering simulation at Cornell University's Sibley School of Mechanical and Aerospace Engineering. "As simulation becomes a standard for teaching physics, nearly every engineering graduate should be able to use simulation software effectively. Together with Ansys, we look forward to preparing engineers with the simulation skillset they need."

CIMdata PLM Industry Summary

“Through our continued collaboration with Cornell University, we are helping students and professionals engineer what’s ahead throughout every stage of their career,” said Prith Banerjee, chief technology officer at Ansys. “As simulation continues to revolutionize how engineering is done, the eCornell courses, supplemented by our Ansys Innovation Courses, will ensure that participants gain the experience needed to excel in the ever-changing industry.”

The Cornell courses are now open for registration.

HCL EXPANDS INVESTMENT IN THE UNITED KINGDOM

17 May 2021

The company announced the hiring of 1,000 technology professionals in the UK

[HCL Technologies](#) (HCL), a leading global technology company, today announced the expansion of investment in the United Kingdom with the hiring of 1,000 technology professionals to support its clients in the UK and around the world. The company plans to hire these professionals in the fields of digital transformation, cloud, artificial intelligence and cybersecurity for its London, Greater London and Manchester offices. During a virtual meeting to convey this commitment, HCL also welcomed UK’s aid to India by PM Boris Johnson in light of the current COVID-19 crisis.

HCL has been present in the UK since 1997 and today its UK operation employs 3,500+ people across various locations, supporting 50+ clients. HCL was recently recognized as a Top Employer in the UK for the fifteenth consecutive year by the prestigious Top Employers Institute.

The virtual meeting between UK Prime Minister Boris Johnson’s with HCL’s CEO C Vijayakumar and Sr. Corp. Vice President, Ashish Kumar Gupta, was held as part of PM Johnson’s virtual tour to create stronger business ties between the UK and India. During the meeting, C Vijayakumar reaffirmed the company’s commitment to the UK, highlighting HCL’s successful partnerships with many of UK’s largest corporations to assist them on their growth and transformation journeys.

“We welcomed the opportunity to speak to the Honorable Prime Minister of UK, Mr. Boris Johnson regarding HCL’s vision for the UK market and thanked him for his country’s continued support as India navigates the COVID-19 crisis,” said C Vijayakumar, CEO, HCL Technologies. “The UK has played a key role in HCL’s growth and success journey for more than two decades. It is home to some of our most prestigious clients and is a hotbed of IT talent. By creating new local jobs in the region, we want to reaffirm our commitment to catalyzing innovation and building competitive digital talent pools in the region.”

UK Prime Minister, Boris Johnson, said, “India and the UK are two countries on the forefront of IT innovation. Thanks to companies like HCL Technologies, we can continue to lead the way together – creating good, skilled jobs and helping both countries to build back better.”

We would like to thank our employees, clients, partners and local communities in the UK for their ongoing support to the company. HCL is grateful to the Department for International Trade and the British High Commission for their continued support in our growth journey.

Hexagon’s Manufacturing Intelligence division opens Technology Center in Montreal, Canada

18 May 2021

Hexagon’s Manufacturing Intelligence division announced the opening of its new Technology Center in Montreal, Canada. The co-working space will be utilized in partnership with Leica Geosystems Ltd, a part of Hexagon, a well-established geospatial technology provider in the greater Montreal area. The

CIMdata PLM Industry Summary

Technology Center provides a product showcase area where Québec manufacturers can get an in-person look at a wide range of advanced solutions for production, automation, metrology and reality capture applications under a single roof. The newly renovated office will serve as a regional hub of talent, technology and training to support customer learning, testing, technical support and product demonstrations. The facility is located at 1950, 32e avenue, Montreal, QC, Canada, H8T 3J7.

The Montreal technology center will house Hexagon's latest coordinate measurement machines (CMMs), vision systems, portable measurement arms, structured light scanners, and laser trackers for dimensional measurement and metrology-related automation. PC-DMIS, REcreate, and Inspire metrology software programs complement this extensive hardware offering for data acquisition, analysis and evaluation, in addition to powerful data management and reporting tools. Area manufacturers will also get a closer look at Hexagon's CAD/CAM/CAE sophisticated software solutions such as MSC Nastran, Simufact and Adams for design, engineering and production. This software portfolio embeds feedback loops and continuous learning into all stages of the production process for quality-driven productivity.

"The addition of our new Technology Center in Montreal reflects Hexagon's strong commitment to our growing industrial landscape in Canada. The Québec manufacturing industry is diverse and advanced. Our direct presence in the region is crucial to supporting our customer base and future clientele looking to move forward with smart manufacturing initiatives. We are excited to have a collaboration space where Hexagon subject matter experts (SMEs) and users can solve challenges and innovate applications with our advanced manufacturing and metrology technologies. It is a huge bonus to work alongside our Geosystems division, an innovator in reality-capture technologies and a well-established presence in Montreal," said David Hill, Director of Commercial Operations – Canada, Hexagon's Manufacturing Intelligence division.

Infosys Collaborates with the Centre for Accessibility to Inspire Better Digital Access for All

20 May 2021

Infosys, a global leader in next-generation digital services and consulting, announced its collaboration with the Centre for Accessibility Australia to help drive awareness and inspire a more accessible and inclusive community via the Australian Access Awards.

Following the success of the awards launch in 2019, the Centre for Accessibility Australia supported by Infosys is hosting this bi-annual event to recognise organisations and individuals that are committed to optimising digital access in their campaigns, services or resources.

An integral part of this collaboration is the Centre for Accessibility Australia acting as a trusted advisor to Infosys on digital accessibility. As an invited member on the Accessible Platform Task Force in W3C (World Wide Web Consortium) this advisory is crucial to Infosys' Australia and New Zealand's CSR program. Known as Pathways this program strives to enable more digitally accessible learning experiences for people with disability.

"Improving accessibility in our workplaces and community is a continuous journey and there's a lot that can be optimised," said **Andrew Groth, SVP Infosys and Region Head Australia and New Zealand**. "We're committed to that journey through Pathways and our other workplace initiatives, creating more digital accessibility opportunities within our organisation.

On Global Accessibility Awareness Day we're delighted to join hands with the Centre for Accessibility

CIMdata PLM Industry Summary

Australia for the Australian Access Awards to help drive awareness and inspire change among organisations in the region.”

Scott Hollier, CEO of Centre for Accessibility Australia said, “We are proud to become an advisor to Infosys and partner with them for the Australian Access Awards which we believe can really help encourage inclusive and accessible experiences within the workplace and wider community. Today we are opening nominations for the 2021 Awards, which will be held on November 19 this year.”

The Centre for Accessibility is a national not-for-profit organisation that recognises and supports businesses, organisations and individuals to advance the inclusion of people with disability across all areas of the digital environment.

Majesco Collaborates with Infosys to Accelerate Digital Experience for Insurers

18 May 2021

Infosys, a global leader in next-generation digital services and consulting, and Majesco, a global leader of cloud insurance software solutions, for insurance business transformation, jointly announced a strategic collaboration. Through this collaboration, Infosys and Majesco will work together to help joint customers accelerate their digital transformation journey, enabling them to unlock new opportunities, address the demand for personalized customer experiences, operational effectiveness, and digital adoption across the insurance business value chain.

Infosys’ insurance domain and digital capabilities combined with Majesco’s cloud-based next-generation suite of solutions including the Majesco L&A and Group Core Suite, Majesco P&C Core Suite, and Majesco Digital1st® Insurance on Majesco CloudInsurer®, will accelerate business growth and innovation for the insurance industry. The combined synergy will help Life & Annuity (L&A), Group, and Property & Casualty (P&C) customers transform their business and will benefit insurers in achieving agility and innovation at speed and scale.

“In an increasingly changing insurance marketplace of new customer expectations, new risks, new competitors and new innovative products, insurers must make bold moves to transform their business and meet the needs of a new digital era of insurance,” said **Ed Ossie, Chief Operating Officer at Majesco**. “Insurers must optimize today’s business and create the future business to substantially increase their potential for success. Majesco’s and Infosys’ collaboration will help our joint customers accelerate their transformation and their path to the future of insurance.”

Mohit Joshi, President, Infosys, said, “We are excited to collaborate with Majesco to explore new opportunities and offer an enhanced digital experience to the insurance industry. In the new normal, insurers are exploring ways to offer hyper-personalized experiences and innovative coverage to acquire and retain customers. A few critical factors to realize these goals are faster time-to-market, flexible products with better configurability, integration with cloud hyperscalers and effective operations. Together, we will provide advanced insurance solutions to our customers and act as a catalyst in their transformation journey by delivering the next-generation digital insurance platform. Infosys and Majesco will bring more resiliency and customer-centricity to insurance carriers.

Oxford University and Oracle Partner to Speed Identification of COVID-19 Variants

16 May 2021

The partnership will enable global genomic sequencing and examination through a specialist platform developed on Oracle Cloud Infrastructure to help mitigate the impact of potentially dangerous COVID-19 variants

CIMdata PLM Industry Summary

The emergence of more infectious variants of the COVID-19 virus is threatening to slow the global recovery and potentially thwart current vaccine immunity. To help governments and medical communities identify and act on these variants faster, Oxford University and Oracle have created a Global Pathogen Analysis System (GPAS) combining Oxford's Scalable Pathogen Pipeline Platform (SP³) with the power of [Oracle Cloud Infrastructure](#) (OCI). This initiative builds on the work of a Wellcome Trust-funded consortium including Public Health Wales, the University of Cardiff, and Public Health England.

“This powerful new tool will enable public health scientists in research establishments, public health agencies, healthcare services, and diagnostic companies around the world to help further understanding of infectious diseases, starting with the coronavirus,” said Derrick Crook, Professor of Microbiology in the Nuffield Department of Medicine at the University of Oxford.

“The Global Pathogen Analysis System will help to establish a global common standard for assembling and analyzing this new virus, as well as other microbial threats to public health. This adds a new dimension in our ability to process pathogen data. We are excited to partner with Oracle to further our research using this cutting-edge technology platform,” added Crook.

First used for tuberculosis, SP³ has been repurposed to unify, standardize, analyze, and compare sequence data of SARS-CoV-2, yielding annotated genomic sequences and identifying new variants and those of concern. SP³'s processing capability has been enhanced with extensive new development work from [Oracle](#), enabling high performance and security plus 7 by 24 worldwide availability of the SP³ system in the Oracle Cloud. The SP³ system will now deliver comprehensive and standardized results of COVID-19 analyses within minutes of submission on an international scale. The results will be shared with countries around the globe in a secure environment.

“The opportunity of applying systematic examination for genetic variants in a range of pathogens will have major benefits for global public health. This program, with Oracle as a partner, takes us a step closer to this goal,” said Sir John Bell, Regius Professor of Medicine at the University of Oxford.

Coupled with the extensive machine learning capabilities in the Oracle Cloud, collaborating scientists, researchers, and governments worldwide can process, analyze, visualize, and act on a wide collection of COVID-19 pathogen data for the first time. This includes identifying variants of interest and their potential impact on vaccine and treatment effectiveness. For example, analytics dashboards in the system will show which specific strains are spreading more quickly than others and whether genetic features contribute to increased transmissibility and vaccine escape. Already, Oxford has processed half the world's SARS-CoV-2 sequences, more than 500,000 in total.

“There is a critical need for global cooperation on genomic sequencing and examination of COVID-19 and other pathogens,” said Oracle Chairman and CTO, Larry Ellison. “The enhanced SP³ system will establish a global standard for pathogen data gathering and analysis, thus enabling medical researchers to better understand the COVID-19 virus and other microbial threats to public health.”

The next step will be to extend this service to all pathogens while simultaneously collaborating with scientists from research establishments, public health agencies, and private companies to ensure this work can inform decision making on pandemic response strategies worldwide.

The platform will be free for researchers and non-profits to use worldwide.

Synopsys Unveils Technology Alliance Partner Program, Adds Integrations for Application Security Orchestration Solution at RSA Conference

18 May 2021

CIMdata PLM Industry Summary

Synopsys, Inc. announced the expansion of the Technology Alliance Partner (TAP) segment of the Software Integrity Group's new Global Partner Program at RSA Conference. Synopsys is showcasing integrations between the company's Intelligent Orchestration solution and technology partner tools, including CloudBees and GitHub Actions. With more than 40 DevOps ecosystem vendors currently engaged, the TAP program simplifies and accelerates partner integration with Intelligent Orchestration and other Synopsys application security solutions.

Recognized as a leader by independent analysts Gartner and Forrester, Synopsys provides the most comprehensive portfolio of application security solutions in the industry. Through the TAP program, development, DevOps, and security technology providers can partner with Synopsys to integrate the company's application security and risk management solutions with their products.

These integrations make it easier for organizations to build automated application security controls into their existing DevOps toolchains.

Synopsys recently introduced its Intelligent Orchestration solution—a dedicated application security automation pipeline that integrates with popular DevOps tools to make security testing seamless and easy to manage for high-velocity development teams. Intelligent Orchestration integrations with CloudBees and GitHub Actions underscore the value the TAP program creates for customers.

Intelligent Orchestration with source code management. Popular source code management (SCM) tools, including Bitbucket, GitLab, and GitHub, can integrate with Synopsys application security solutions to enable developers to automatically run security scans on their source code when changes are introduced. For example, the Intelligent Security Scan GitHub Action integrates with Intelligent Orchestration to simplify and streamline security testing, triggering the most appropriate analysis based on the significance of the code changes being introduced. It can be configured to automatically orchestrate rapid or incremental security scans based on pushes and pull requests. Scan results are formatted using the Static Analysis Results Interchange Format (SARIF) and displayed through the GitHub code scanning user interface automatically within the developer workflow.

"GitHub Actions helps customers automate software development efforts from ideation to production rapidly," said Jose Palafox, business development manager for GitHub. "Security testing is an increasingly important part of that process, but it needs to happen seamlessly. With the Intelligent Security Scan Action, developers can leverage the power of Intelligent Orchestration to automatically and quickly initiate security scans."

Intelligent Orchestration with continuous integration and delivery. Widely used continuous integration and delivery (CI/CD) tools like CloudBees, CircleCI, and Bamboo can also integrate with Intelligent Orchestration. For example, Intelligent Orchestration integrates with CloudBees to provide a dedicated security testing pipeline that runs in parallel with build and release pipelines, simplifying deployment while ensuring that application security doesn't come at the cost of development velocity. Customers can define application security policies as code, specifying rules for security testing, response, and notification. Using proprietary technology, Intelligent Orchestration then uses those rules to evaluate code changes and other CI/CD events to intelligently trigger the appropriate security tests.

"We're seeing more and more customers look to automate application security activities as part of their CI/CD pipelines," said Anders Wallgren, vice president of strategy for CloudBees. "But with the accelerating pace of development and proliferation of security testing technologies, it can be difficult for them to manage the continuous stream of vulnerabilities without slowing down the pipeline. Through our strategic partnership with Synopsys and integration between our respective tools, CloudBees and Intelligent Orchestration, customers can utilize automation and risk-based intelligence to run the right tests at the appropriate stages in the pipeline, which can dramatically reduce unnecessary friction."

CIMdata PLM Industry Summary

To become a Synopsys technology partner or learn more, visit the TAP program webpage. The TAP program provides partners with world-class developer support, product training, integration audits, community access, and co-marketing opportunities. Collaborate, integrate, and interoperate with Synopsys application security solutions to transform how software is built, deployed, and operated. Through partnerships, customers can achieve their application security goals without impacting their development and deployment efforts.

Tech Mahindra Announces Appointment of ‘Wellness Officer’

15 May 2021

The new role has been created to institutionalize holistic wellness of all associates, partners and vendors amidst the COVID crisis.

Tech Mahindra, a leading provider of digital transformation, consulting and business re-engineering services and solutions, today announced the appointment of Meghna Hareendran as the ‘Wellness Officer’, with immediate effect.

In order to address workforce well-being amidst the COVID crisis, the new role has been created to institutionalize holistic wellness of all associates, and to ensure the access to medicine, hospitals and other medical supplies, while maintaining the mental well-being of the Tech Mahindra family. Meghna will work as a central program manager to take care of the healthcare needs of the associates and will also be responsible for managing relationships with Tech Mahindra partners and vendors to ensure a comprehensive suite of wellness offerings to them.

Harshvendra Soin, Global Chief People Officer & Head – Marketing, Tech Mahindra, said, “Guided by our values and culture of driving positive change, celebrating each moment, and empowering all to Rise, we at Tech Mahindra, have always prioritized the well-being of our associates. Meghna is one of our bright young HR leaders who is passionate and already making a positive difference to the lives of many. Her appointment as a ‘Wellness Officer’ reiterates our belief in ‘Wellness before Business’ and underscores our commitment towards ensuring holistic wellness of our associates.”

Tech Mahindra has also collaborated with leading hospitals to convert some of its campuses into COVID care units. Additionally, the company also launched an exclusive COVID-19 vaccination drive for its associates and their dependent family members across India and will also be covering the cost of vaccination for its associates globally and the third-party employees. As a company with a purpose, Tech Mahindra has extended its support to Mission Oxygen to set up 50 oxygen plants for charitable and government hospitals across India.

Meghna Hareendran, Wellness Officer, Tech Mahindra, said, “The pandemic has taken a significant toll on lives across the world, and it has created a unique challenge to ensure both physical and mental wellness of people. To combat this, the key is to build a wave of ‘collective well-being’, with humans and technology at the center. I want to thank Tech Mahindra for recognizing this early on, and for enabling a culture where everyone comes together to ensure each other’s well-being.”

Tech Mahindra has a 360-degree approach to employee well-being with a huge emphasis on mental health and wellness program, aimed at lending a helping hand to its associate in these difficult times. This includes regular outreach to associates which focuses on 8 different aspects of wellness - emotional, physical, financial, occupational, spiritual, environmental, intellectual, and social. The company also has a comprehensive COVID-19 risk screening test, called Mhealthy, to test the presence of anti-bodies along with all the vital health stats for COVID-19 co-morbidities. By generating real-time

CIMdata PLM Industry Summary

reports, the solution ensures that every individual stepping into the Tech Mahindra premises is healthy, making it a safe place to work.

Vectorworks, Inc. Announces Regional Design Scholarship Winners

18 May 2021

Global design and BIM software provider Vectorworks, Inc. is proud to recognize the future of design in announcing this year's Vectorworks Design Scholarship regional winners. Twelve talented designers were selected for their projects out of over 1,800 submissions by graduate and undergraduate students in major disciplines related to the architecture, landscape architecture, entertainment and interior design fields.

The winners were selected by an international panel of design, academic and media professionals. Submissions were evaluated based on design quality, concept and originality, the effective use of computer technology, presentation and explanation of design.

“Because of the pandemic and how it has modified people's working patterns, the judging panel took the opportunity to get together on Zoom, and that enabled us to discuss the most technologically impressive or interesting entries,” said CAD User Editor David Chadwick, a member of this year's judging panel. “Most of the entries are of high technical quality, have been produced after intensive research or exhibit some exhilarating creativity. Like previous years, one of the most striking things about the entrants was their diversity of origin.”

This year's winners represented countries from across the globe including Australia, the Dominican Republic, the United Kingdom, Canada and the United States. Here are the 2021 winners:

ARCHITECTURE WINNERS:

- “Swinburne Station!” by Shengye Yu, Swinburne University of Technology
- “The Invisible Castle” by Henri Kopra, University of Nottingham
- “Pliable Display-Ground” by Han Zhu, Xinyu Chen and Wanting Zhou, Rice University

LANDSCAPE WINNERS:

- “Complejo Industrial de Empresa Internacional Dedicada a la Manufactura de Dispositivos Electrónicos” by Solange Lantigua and Lindi Patricia Oviedo Aguilar, Universidad Autónoma de Santo Domingo
- “Cooling UHI via Parametric Design in Landscape Architecture” by Chein-Yu Lin, SUNY College of Environmental Science and Forestry
- “Eden Project Productive Garden” by Joss Paine, Cornwall College, University of Plymouth

ENTERTAINMENT WINNERS:

- “All We Have Is Time” by Wei Guo, Victorian College of the Arts
- “Subject to Change” by Mollie Singer, University of Maryland, College Park
- “COVID-19 Music Tour” by Alex Forey, Royal Academy of Dramatic Art (RADA)

“This year's Vectorworks Design Scholarship winners are a true representation of the bright future of design,” said Vectorworks Marketing Programs Director Alice Lowy. “We continue to be incredibly impressed by the projects submitted each year and we congratulate all winners for their creative accomplishments.”

All regional winners received the equivalent of \$3,000 USD in local currency, free Vectorworks

CIMdata PLM Industry Summary

educational software licenses for their schools and complimentary virtual workshop training. In addition, all scholarship winners have advanced to compete for the Richard Diehl Award, a global award providing an additional prize package including \$7,000 USD, professional networking opportunities and media exposure. The Richard Diehl Award winner will be announced on June 16, 2021.

Event News

Altair Future.AI Global Event to Demonstrate How Artificial Intelligence and Analytics Accelerate Digital Transformation

21 May 2021

Altair, a global technology company providing solutions in simulation, high-performance computing (HPC), and artificial intelligence (AI) will hold its Future.AI event, June 15-17. This virtual event will showcase advances in analytics and AI that solve challenges and drive next-level results in manufacturing, banking, financial services, insurance, retail, government agencies, education, and healthcare.

“As the convergence of technologies is changing the global technology landscape and evolving business strategies, we are seeing companies of all sizes and in all industries start to embrace digital transformation,” said James R. Scapa, founder and chief executive officer, Altair. “Future.AI is the ideal event for business leaders to gain inspiration, insights, and best practices that can be applied to their organizations, regardless of where they fall in their digital transformation journey.”

The global event will connect scientists, engineers, business teams, and creative thinkers who are harnessing the power of data analytics and AI to gain competitive advantages and drive better business results. Attendees will be empowered to discover their data potential and learn from those who are operationalizing data analytics and AI to compete more effectively. Future.AI will include insightful keynotes from thought leaders, panels of experts addressing the latest trends, and more, including:

- Keynote presentation from Dr. Anima Anandkumar, director of machine learning research, NVIDIA
- “AI Takes to the Cloud” panel featuring Intel, Google, Microsoft, NVIDIA, and Oracle
- “AI and Digital Transformation: Paving a Path to Better Business Outcomes,” fireside chat with Capgemini and Sam Mahalingam, Altair chief technical officer
- “Women in Data Analytics” panel will explore challenges and opportunities for women in a male-dominated field
- Industry-specific breakout sessions featuring Rolls-Royce, HSBC, Jaguar Land Rover, FlexTrade, KLA, BreakForth, Mabe, and Meyers Constructors

Altair to Host Technology Conference and Showcase Simulation Solutions for Composites at JEC Composites Connect

21 May 2021

Altair, a global technology company providing solutions in the areas of simulation, high-performance

CIMdata PLM Industry Summary

computing (HPC), and artificial intelligence (AI), will host a technology conference focused on simulation solutions for composites at the inaugural JEC Composites Connect, the virtual version of JEC World, the world's leading composites trade show, on June 1.

Entitled "A Complete Composites Workflow for All Industries," Altair's conference will be the only company-led conference to offer cross-industry presentations covering the entire composite product design cycle. The conference will include presentations from several industry experts, including:

- Jeffrey Wollschlager, vice president composite technologies, Altair
- Dr. Martin Perterer, head of simulation, KTM e-Technologies
- Patrick Jumin, Karim Sliman, and Derik Joël Kengne Tapchom, composites specialists, SNCF
- Nerea MarKaide, polymers and composites expert, Cidetech

Optimized weight-performance ratios are critical to many industries including aerospace, transportation, sports, and racing. When extreme lightweight requirements meet ultimate performance needs, continuous fiber reinforced materials are the solution of choice. The holistic simulation of continuous fiber composites is an important building block to tailor products to individual requirements. In addition to the conference program, Altair will also have a virtual booth where attendees can meet Altair experts, network with other visitors, and experience how Altair solutions help to:

- Accelerate composites design to production
- Handle composite design certification
- Predict ultimate failure behavior
- Handle material data and characterization

The Altair event will conclude with a roundtable discussion to exchange views with various manufacturers and Altair's experts in the field of composites.

"We have participated in JEC events for many years. This year, more than ever, we believe it is important to maintain this collaboration and to continue to support JEC World with our content and solutions," said Jeffrey Wollshlager, vice president of composites technologies, Altair. "JEC remains, without a doubt, the must-attend event for innovation in composites and Altair solutions heavily contribute to a seamless design and development process utilizing composites in all industries, enabling lighter designs and better products."

JEC Connect has been conceived to be a real trade show. In the virtual interface of the event platform, visitors will be able to wander around and visit digital booths where companies will present their products, take advantage of several networking zones and a platform for making appointments, and attend several conferences, including the one by Altair.

IMAGINiT Technologies' ELEVATE Virtual Event Offers Transformative Insights for AEC and Manufacturing

18 May 2021

At IMAGINiT Technologies' ELEVATE Virtual Event, experts will share insights on how design engineering teams can realign technology investments, evolve business models and adjust critical processes to transform their businesses. This free, virtual event features dedicated tracks for both Manufacturing and Architecture, Engineering and Construction (AEC) professionals and runs from 1:00 to 4:00 pm ET on May 19 and 20, 2021.

"The future of the 3D design engineering world is digital," says Bill Zavadil, president, Rand

CIMdata PLM Industry Summary

Worldwide. “Whether it’s leveraging powerful data and insights or moving to truly digital workflows, companies who embrace these changes will be better positioned to compete in today’s market. To guide you along this journey, we have assembled an impressive lineup of IMAGINiT consultants, customers and partners to share forward-thinking insights that focus on achieving extraordinary business outcomes through strategic planning and execution as well as how industry leaders are finding success by strategically integrating technology, people and processes.”

Dedicated AEC and Manufacturing Tracks

The consecutive lineup of presentations tell a story and include a vision, goals and objectives, and benchmarks for success. Presenters include experts from IMAGINiT Technologies as well as from Autodesk, Leica Geosystems, Twinmotion and several IMAGINiT customers. Attendees will have the opportunity to ask questions of the presenters during the sessions, as well as the ability to network with presenters and other attendees during the event. They will also have access to download related resources and assets associated with the session topics.

Attendees to the AEC track will learn how to analyze existing data to help make informed decisions across their workflows. The six live AEC sessions include:

- Opening Keynote: Leveraging Data and Analytics to Drive Business Decisions
- Connect in the Cloud: Make More Informed Decisions
- Analyze Employee Software Skills to Improve Business Operations
- Panel: Digital Twins Demystified
- Virtual Reality Without Breaking the Bank
- Closing Keynote: The Future of Technology led by Nicolas Mangon, Vice President, AEC Strategy, Autodesk

In addition to the six live, AEC sessions, there are several pre-recorded bonus tracks that cover a range of building and infrastructure topics.

Manufacturers can participate in sessions that address pressures such as increasing quality while reducing costs and time to market, while at the same time differentiating themselves from increased competition. To tackle these business issues and tell the story of digital transformation, the live manufacturing sessions include:

- Opening Keynote: Navigating the Path to Digital Transformation
- Elevating the Shop Floor with Modern Data and Process Management
- Facilitating the Digital Transformation with CAD Assets and Visualization
- Connecting Manufacturing and Building Design Workflows
- The Power of Automation in Manufacturing Design
- Closing Keynote: A Holistic Approach to Digital Transformation

ELEVATE is a free, two-day virtual event, but registration is required. IMAGINiT has also committed to making charitable donations on behalf of each registrant. When registering, simply select from one of six different charities and IMAGINiT will make a donation on your behalf.

Introduction to Coreform Cubit

18 May 2021

On Friday, June 18th at 10am MDT, Coreform Director of Product Management Greg Vernon will

CIMdata PLM Industry Summary

introduce how the Coreform Cubit meshing software can generate high quality meshes for engineering simulation to accelerate your product development and reduce costs. In the webinar, we will demonstrate how to use Coreform Cubit to prepare various types of meshes, including 2D triangular and quadrilateral meshes, and 3D tetrahedral/hexahedral/mixed meshes. Additionally, we will introduce Coreform Cubit's simulation preprocessing capabilities, including how to make material assignments and assign boundary & load conditions to prepare models for simulation.

Coreform Cubit is a premier meshing software whose advanced tools can help you reduce the costs of physical prototyping and testing. Our pre-processing capabilities allow users to minimize time spent on model preparation for FEA and CFD, while maximizing control over mesh quality. This webinar will help new users get started learning how to get the most out of Coreform Cubit.

Attend live to take advantage of live Q&A.

A recording will be available after the event for all registered users.

OpenText Drives Cloud Growth across the Asia Pacific Region

19 May 2021

OpenText™ kicked off OpenText World Asia Pacific, its flagship conference for customers, partners and prospects in the Asia Pacific region, headlined by OpenText CEO & CTO Mark J. Barrenechea, Chief Product Officer Muhi Majzoub, and a fireside chat with best-selling author and renowned optimist Simon Sinek.

The two-day event brings together OpenText leadership and experts, guest speakers, strategic partners and industry professionals to discuss market trends, explore the opportunities within the Asia Pacific market, and highlight how OpenText™ Cloud Editions (CE) 21.2 support customers across the region on their journey to the cloud.

"Asia Pacific is an incredibly important market for us, and we continue to increase our investments in innovation, customer success and go-to-market programs across the region," said OpenText CEO & CTO Mark J. Barrenechea. "OpenText World Asia Pacific provides us an amazing opportunity to connect with our customers, and demonstrate how OpenText Cloud Editions enables modern work, connected global commerce and provides for modern experiences and improved cyber resiliency. The innovations in CE 21.2 enable customers to accelerate growth and stay ahead of the competition."

Driving growth across the region

The Asia Pacific region accounted for 8.5 percent of OpenText revenue in fiscal year 2020, totaling \$263.8 million. This growth has continued through the first three quarters of fiscal year 2021, with overall revenue increasing 2.1 percent and cloud revenues growing 17.3 percent compared with the previous year. Overall, OpenText has more than 14,000 customers across the region and is pleased to welcome Huhtamäki, MSIG and Tata Power to speak at OpenText World Asia Pacific.

Continuing to invest in talent

OpenText has invested significantly in the Asia Pacific Region, with 4,900 employees located in Australia, China, India, Japan, Philippines, Singapore, Malaysia, New Zealand, Thailand, and South Korea, and plans to continue growing our employee base further. OpenText also has an extensive partner network that augments and extends the companies reach through the entire region.

OpenText Cloud Editions 21.2

OpenText CE empowers customers with choice, enabling them to run their software anywhere – off-cloud, in the private cloud, in the public cloud platform of choice, or through cloud API services. CE can be paired with expert managed services to ensure success at each stage of the Information Management journey, and new features, use-cases and enhancements are delivered quarterly.

With the release of CE 21.2, each of the OpenText clouds continues to demonstrate value to customers across the Asia Pacific region:

- The OpenText Content Cloud empowers modern work by improving user productivity, process stability, and providing solutions to assist with regulatory compliance.
- The OpenText Business Network Cloud connects business to global commerce and trading networks through a unified platform for streamlined connectivity, secure collaboration, and real-time business intelligence.
- The OpenText Experience Cloud provides a single platform to deliver modern engagements across the customer journey.
- The OpenText Security & Protection Cloud strengthens cyber resilience by helping organizations to secure critical and sensitive information at scale, find evidence faster, reduce risk, and detect and respond to cyberthreats.
- The OpenText Developer Cloud is a single source of Cloud API services that lets developers quickly bring their ideas to life faster using powerful, developer-trusted APIs.

With regional expertise in financial services, public sector, life sciences, supply chain, utilities, and natural resources, OpenText is digitally empowering many of the most innovative organizations in the Asia Pacific region.

"Organizations across Asia Pacific need to transform digitally to meet the productivity and governance needs of changing work styles and evolving operational models," said Albert Nel, Vice President, Asia Pacific at OpenText. "I am excited to bring our customers together at OpenText World Asia Pacific to show them how our innovative information management solutions can help them meet the challenges of an evolving market and workforce."

ShareAspace Forum 2021 is here!

18 May 2021

Companies are more than ever looking to build agility and flexibility into their business while establishing a solid foundation that facilitates change.

Information systems must be connected and data shared with partners, suppliers and customers. On top of this comes challenges with outdated IT, vendor lock-in, protection of intellectual property, how and when to use disruptive technologies and last but not least – knowing where to spend IT and PLM budgets to get the best ROI, short and long term.

To achieve the above might sound like an arduous mission but Eurostep is here to help you.

While you might still be dissatisfied with big PLM, ERP and MRO vendors that have not delivered exactly what you need, we have some insightful stories to share with you during ShareAspace Forum 2021!

Register now for ShareAspace Forum 2021 to learn how Eurostep, with ShareAspace, can:

- Meet your business needs in Defence, Manufacturing and AEC/Plant industries.

- Help you meet the business needs to share data with partners, suppliers and customers while protecting your intellectual property.
- Support your collaboration around advanced systems.
- Boost your business and give you a competitive advantage.

Financial News

Synopsys Posts Financial Results for Second Quarter Fiscal Year 2021

19 May 2021

Synopsys, Inc. reported results for its second quarter fiscal year 2021. Revenue for the second quarter was \$1,024.3 million, compared to \$861.3 million for the second quarter of fiscal 2020.

"Synopsys continues to execute very well. We delivered outstanding second quarter results, exceeding all of our key guidance metrics, and business was robust across all product groups and geographies. Market demand is strong, and we see a new wave of growth on the horizon, driven by an increasing need for highly complex, connected, specialized, and secure chips and systems," said Aart de Geus, chairman and co-CEO of Synopsys. "Recent transformative technology innovations position us particularly well to enable this new era. And combined with our multi-year focus on accelerating growth and expanding non-GAAP operating margin, we continue to manage the business to drive significant long-term shareholder value. Our excellent year-to-date results, coupled with increased confidence in our business, lead us to raise our fiscal 2021 revenue, non-GAAP earnings and operating margin, and operating cash flow targets."

GAAP Results

On a generally accepted accounting principles (GAAP) basis, net income for the second quarter of fiscal 2021 was \$195.1 million, or \$1.24 per share, compared to \$109.9 million, or \$0.71 per share, for the second quarter of fiscal 2020.

Non-GAAP Results

On a non-GAAP basis, net income for the second quarter of fiscal 2021 was \$267.1 million, or \$1.70 per share, compared to non-GAAP net income of \$188.3 million, or \$1.22 per share, for the second quarter of fiscal 2020.

For a reconciliation between GAAP and non-GAAP results, see "GAAP to Non-GAAP Reconciliation" and the accompanying tables below.

Business Segments

Synopsys reports revenue and operating income in two segments: (1) Semiconductor & System Design, which includes EDA tools, IP products, system integration solutions and associated services, and (2) Software Integrity, which includes security and quality solutions for software development across many industries. Further information regarding these segments is provided at the end of this press release.

Financial Targets

Synopsys also provided its consolidated financial targets for the third quarter and full fiscal year 2021. These financial targets assume that there are no further changes to the current U.S. government "Entity List" restrictions for the rest of the fiscal year. These targets constitute forward-looking statements and are based on current expectations.

CIMdata PLM Industry Summary

Third Quarter and Fiscal Year 2021 Financial Targets

(in millions except per share amounts)

	Q3 FY 2021		FY 2021	
	Low	High	Low	High
Revenue	\$ 1,030	\$ 1,060	\$ 4,035	\$ 4,085
GAAP Expenses	\$ 807	\$ 825	\$ 3,241	\$ 3,286
Non-GAAP Expenses	\$ 707	\$ 717	\$ 2,835	\$ 2,865
Other Income (Expense)	\$ (3)	\$ (1)	\$ (9)	\$ (5)
Normalized Annual Tax Rate ⁽¹⁾	16%	16%	16%	16%
Outstanding Shares (fully diluted)	156	159	156	159
GAAP EPS	\$ 1.30	\$ 1.41	\$ 4.55	\$ 4.72
Non-GAAP EPS	\$ 1.75	\$ 1.80	\$ 6.38	\$ 6.45
Operating Cash Flow			\$ 1,250	\$ 1,300

(1) Applied in non-GAAP net income calculations

Earnings Call Open to Investors

Synopsys will hold a conference call for financial analysts and investors today at 2:00 p.m. Pacific Time. A live webcast of the call will be available on Synopsys' corporate website. A recording of the

CIMdata PLM Industry Summary

call will be available by calling +1-866-207-1041 (+1-402-970-0847 for international callers), access code 8802871, beginning at 5:00 p.m. Pacific Time today, until 11:59 p.m. Pacific Time on May 26, 2021. A webcast replay will also be available on the website from approximately 5:30 p.m. Pacific Time today through the time Synopsys announces its results for the third quarter of fiscal year 2021 in August 2021. Synopsys will post copies of the prepared remarks of Aart de Geus, chairman and co-chief executive officer, and Trac Pham, chief financial officer, on its website following today's call. In addition, Synopsys makes additional information available in a financial supplement and corporate overview presentation, also posted on the corporate website.

Effectiveness of Information

The targets included in this press release, the statements made during the earnings conference call and the information contained in the financial supplement and corporate overview presentation (available in the Investor Relations section of Synopsys' corporate website) represent Synopsys' expectations and beliefs as of the date of this release only. Although this press release, copies of the prepared remarks of the co-chief executive officer and chief financial officer made during the call, the financial supplement, and the corporate overview presentation will remain available on Synopsys' website through the date of the third quarter fiscal year 2021 earnings call in August 2021, their continued availability through such date does not mean that Synopsys is reaffirming or confirming their continued validity. Synopsys does not currently intend to report on its progress during the third quarter of fiscal year 2021 or comment to analysts or investors on, or otherwise update, the targets given in this release.

Availability of Final Financial Statements

Synopsys will include final financial statements for the second quarter fiscal year 2021 in its quarterly report on Form 10-Q to be filed by June 10, 2021.

Implementation Investments

ATCO Australia Pivots to the Cloud with OpenText

18 May 2021

OpenText™ announced ATCO Australia has moved their information management solutions to the OpenText™ Cloud to modernize work for improved flexibility and cost savings.

ATCO Australia is an energy company responsible for developing, building, owning and operating energy infrastructure assets. Operating in a highly regulated industry, ATCO uses OpenText™ Extended ECM Platform to manage, secure and govern their information assets, from legal and operational documents to contracts and work orders. Recently, the company shifted their information management system from on-premises to the OpenText™ Content Cloud to gain efficiency.

“With OpenText Cloud Managed Services, we no longer have to maintain infrastructure or worry about upgrades and patches,” said Chris Marshall, General Manager IT at ATCO Australia. “We use the cloud service to access and govern documents in our information management system, which OpenText looks after for us. By moving to the cloud, access speeds are much faster—almost twice as fast. Additionally, we are now using the latest features and functionality with integration into leading business applications like Microsoft 365.”

OpenText™ Cloud Managed Services helps organizations modernize their IT by leveraging the expertise of seasoned professionals. OpenText manages the deployment, integration, ongoing management and optimization of Information Management applications and infrastructure — with the flexibility to deploy in the OpenText™ Cloud or with an OpenText public cloud partner, including

CIMdata PLM Industry Summary

Google Cloud, Microsoft Azure, or Amazon Web Services.

“ATCO Australia has made incredible progress with their information management strategy and OpenText is proud to support them on their journey to The Ultimate Cloud,” said Muhi Majzoub, Chief Product Officer at OpenText. “Our Cloud Managed Services helps organizations optimize their daily operations, freeing up their resources to focus on business, growth and innovation.”

Additionally, remote access to documentation and external sharing was essential to keep ATCO’s operations running smoothly during the pandemic. With the Extended ECM mobile app, employees have access to information stored in OpenText Extended ECM from anywhere, on almost any device. OpenText™ Core Share enables field workers to access and share up-to-date information, including safety procedures.

AVEVA Paves the Way for Henkel to Drive Sustainability Throughout its Global Supply Chain

18 May 2021

AVEVA, a global leader in industrial software, driving digital transformation and sustainability, announced that Henkel, a global consumer goods and industrial chemicals manufacturer with a diverse portfolio of well-known brands, has implemented AVEVA digital solutions to help accelerate sustainability within its supply chain. By integrating AVEVA™ System Platform , AVEVA™ Historian and AVEVA™ Manufacturing Execution System, Henkel is monitoring and minimizing energy consumption saving €8M YOY in 2020 and working towards its target of becoming three times more energy efficient by 2030.

With sustainability at the heart of its strategy, Henkel’s Laundry & Home Care business unit wanted to reduce energy consumption and align with ISO 50001 standards at all its production sites. Using AVEVA software installed by EMP Etteplan GmbH, the team was able to successfully optimize collection, use and communication of energy consumption and emissions data across its supply chain. As a result, the team has improved supply-chain resource efficiency of on-site production by 5-6% annually.

“When we started implementing AVEVA digital solutions in 2013, we were already achieving a 3% year-on-year energy saving on every ton of product produced. By the time we had completed the implementation, we were seeing a clear increase in energy efficiency. For example, AVEVA-based Environmental Management System (EMS) has reduced Henkel’s energy consumption (kWh/t) year-on-year by up to 16% in 2020 against a business-as-usual operation. To put this into perspective, the energy saved is equivalent to the capacity needed to support the three million inhabitants of two European capital cities, Amsterdam and Vienna,” commented Wolfgang Weber, Corporate Director, Digital Transformation & Engineering Laundry & Home Care, Henkel.

Using Technology to Deliver Sustainable Outcomes across the Board

AVEVA’s flexible solution enabled Henkel’s Laundry & Home Care business unit to address all the information system architecture requirements needed to realize these emissions savings. The project took less than 18 months to start delivering audited benefits and included the energy monitoring solution using AVEVA System Platform and AVEVA Historian.

“With many organizations today focused on driving sustainable business practices, AVEVA has made positive strides towards this universal call to action by developing technology solutions that are contributing towards effectively reducing industrial organizations’ environmental footprints. Digital technologies play a vital role in realizing sustainable ambitions and AVEVA is primed to support our

CIMdata PLM Industry Summary

customers globally in taking charge of their sustainability objectives,” commented Kim Custeau, Senior Vice President APM and MES, AVEVA.

“Our offerings are enabling our customers to integrate legacy solutions seamlessly, providing advanced analytics that drive sustainable decision-making through actionable insights. Our aim is to continue to work with world leaders like Henkel, where our business goals are technologically advanced and aligned to support the global sustainability agenda,” Custeau continued.

“In terms of our vision for the future, AVEVA software will continue to provide the technology that Henkel Laundry & Home Care needs to achieve its goals,” said Dr. Dirk Holbach, Corporate Senior Vice President, Global Supply Chain Laundry & Home Care, Henkel. “Sustainability and efficient use of resources is firmly anchored in Henkel’s corporate values – and this isn’t something recent. We were one of the first companies to start publishing an annual sustainability report thirty years ago and today we have our sights set firmly on our long-term sustainability goals and are proud that our commitment has recently been recognized by the World Economic Forum (WEF) designating several of our factories as sustainability lighthouses.”

Bentley and ESI Group work together to refine the Flying Spur through a sustainable design process

12 May 2021

ESI Group, a global player in virtual prototyping for industries, worked hand in hand with Bentley on the optimization of one of the world’s finest four door sedans, the Flying Spur. Thanks to virtual prototyping, teams have been able to eliminate noise, vibration and harshness (NVH) and reduce physical parts in the test phase.

Advanced virtual design processes have been used in the testing and production cycles of the third Flying Spur generation. Thanks to ESI’s virtual prototyping, a weight optimization program for the Flying Spur could be undertaken on 40 different components. The finely tuned process enabled acoustic tests for any airborne sounds filtering into the cabin to be completed, as well as any impact from the structure itself, such as tire noise. This ensured the correct soundproofing materials were deployed in the right locations around the vehicle, so passengers can enjoy the quietest cabin experience possible. These cutting-edge techniques are ultimately more sustainable, dramatically reducing the need to manufacture physical parts.

By using Virtual Prototyping, Bentley succeeded in what we set out to do –optimize every component of the Flying Spur firstly in the virtual world before we create physical parts. At the same time, we have reduced physical prototypes, creating the quietest in-cabin experience for our customers. Virtual Prototyping means fewer prototypes have to be built, and we reduce our testing mileage. It also helps influence the design and engineering of the car at an early stage and affords significant benefits in the extensive testing phase.

Simon Noble

Acoustic Engineer at Bentley Motors

ESI Group used their expertise in the challenging job of pinpointing unwanted cabin noise, relying on Virtual Prototyping, allowing Flying Spur designers to use digital mock-ups that helped identify NVH before building a physical version of the car. The virtual prototyping helped to reduce physical parts in the test phase and save time during the process. ESI Group’s ambition is to boost human creativity to drive industrial performance to ever higher levels. We are proud to collaborate with Bentley on one of the best luxury sedans in the world!

Jonas Fredriksson

CIMdata PLM Industry Summary

Managing Director ESI Northern Europe

BGZ brands Teams up with Centric Software to Control Complexity and Govern Growth

20 May 2021

BGZ brands, the device accessory company, has selected Centric Software's Product Lifecycle Management (PLM) solution, Centric SMB for emerging brands. 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.

Founded in 2002 and headquartered in Lehi, Utah, BGZ brands began as NLU Products, a screen protection company for the original handhelds and PDAs. It grew quickly with the evolution of smartphones and has become a leader and innovator in the industry offering a wide variety of protective solutions for mobile devices. Through acquisitions and the development of new brands, BGZ brands became the powerhouse parent company to three distinct brands of elevated value and quality: BodyGuardz, Lander and Moxyo.

The company's rapid growth necessitated greater efficiency and the tools to manage a growing portfolio of products and customers. Clark Bailey, Director of Engineering and Product Development says, "The organization has grown over the last four years. We manage eight product categories that are becoming more complex and our current tools like email, excel or Google docs just can't keep up with the pace we're moving."

BGZ brands set out to find a PLM solution to handle their increasingly diversifying business, choosing Centric SMB over others as the best fit. Says Bailey, "I've had experience in the past with PLM systems that weren't designed to keep up with the rapid pace of the consumer goods industry." He continues, "And Centric just feels much more intuitive. We found it to be extremely robust and flexible, with a short learning curve for our employees. The interface is similar to a spreadsheet with tabs, which is way easier to learn than a bunch of random clicks and proprietary nomenclature."

When Centric SMB is implemented, it will serve as a central repository for everyone, including new employees with different backgrounds. Bailey explains, "We continue to grow and everybody has their own preferred way of doing things. There's a lot of tribal knowledge around the organization, so in addition to managing more complicated projects, PLM centralizes all the information in one source of the truth."

BGZ is relying on Centric PLM™ to increase data validity. Bailey says, "Within our organization right now, there are many touch points and systems. Having one system will streamline and simplify." He talks about his department. "I am in the Product group. We are creating information that should flow seamlessly through the other systems and keep everything accurate. Centric PLM is going to integrate with our ERP and Adobe to achieve that workflow automation."

Chris Groves, President and CEO of Centric Software says, "We are pleased to be BGZ brands' digital transformation partner. They are a rapidly growing company, expanding into new categories and we are honored by the trust BGZ has placed in Centric as they continue their growth trajectory."

DISH Wireless Selects Oracle for 5G Core Service-Based Architecture

14 May 2021

5G network slicing and cloud-native automation enable DISH Wireless to power a new level of innovation and services for customers

CIMdata PLM Industry Summary

DISH Wireless is redefining services for consumers, small businesses and large enterprises by building the nation's first cloud-native, OpenRAN-based 5G network. As DISH takes the unprecedented step of building a 5G network in the cloud, it has selected Oracle to enable a Service-Based Architecture (SBA) for its 5G core. SBA, part of the 3GPP 5G standard, enables network services to be rapidly incorporated into new applications by DISH or DISH customers through automated, intelligent configuration between network functions.

With this technology, DISH Wireless will be able to provide enterprise customers added control of the software and services they utilize, taking advantage of their individual "network slice." This "network of networks" will enable enterprises to configure dedicated, logical network instances and policy management for different applications and customer experience models, such as manufacturing or telehealth.

"Oracle's capabilities will essentially serve as the control tower of our network core, enabling our customers to consume software on demand and facilitating the advanced core functions required to power a truly automated network," said Marc Rouanne, chief network officer, DISH Wireless. "While many carriers may claim to have 5G, there are certain attributes only possible with a cloud-based standalone network, and our working with Oracle will yield results that will unleash the power of true, fully-optimized 5G."

Aligned with the Cloud Native Computing Foundation (CNCF), Oracle's 5G core control plane includes network functions that will help operators automate and scale to meet the expected growth in 5G subscribers and connected devices. DISH Wireless will be using a number of network functions from Oracle including:

- **Policy Control Function (PCF)**: dynamically routes low-latency applications to edge data networks, while simultaneously considering network data analytics and slice information to provide optimized policies minimizing network resource utilization while maximizing quality of experience.
- **Network Repository Function (NRF)**: serves as a central repository for all of the network functions in DISH's 5G network, along with the services provided by each of these elements.
- **Network Exposure Function (NEF)**: acts as a centralized point for service exposure and plays a key role in authorizing all access requests originating from outside the DISH network to enable Cellular IoT, non-IoT, edge computing and API gateway use cases for DISH and its enterprise customers.

Additionally, DISH will utilize Oracle for 5G Service Communications Proxy (SCP), Network Slice Selection Function (NSSF), Security Edge Protection Proxy (SEPP) and Binding Selection Function (BSF).

Hoist Finance Selects LTI's Digital Banking Platform to Achieve Accelerated Growth in Europe

18 May 2021

Larsen & Toubro Infotech Ltd., a global technology consulting and digital solutions company has entered into a strategic engagement with Hoist Finance AB, a pan European financial services company, to provide Banking-as-a-Service for Performing Loans segment through its Digital Banking Platform.

LTI's Digital Banking platform, powered by Temenos, will enable Hoist Finance to be more scalable and with faster on-boarding of new asset classes across regions. The platform provides seamless interoperability, agility, and higher security at a lower total cost of ownership.

CIMdata PLM Industry Summary

Klaus-Anders Nysteen, CEO, Hoist Finance, said: “The strategic partnership with LTI is in line with our growth strategy for performing loans segment in Europe. It will help us strengthen Hoist’s positioning as a leader in this segment with digital-first strategies. LTI has been a strategic partner for Hoist since 2019 and has supported multiple transformation initiatives, spanning workplace transformation, infrastructure transformation and migration to the cloud. Onboarding LTI’s digital banking platform was a natural extension of our strategic partnership.”

With its comprehensive capabilities, LTI’s Digital Banking Platform provides end-to-end integration with Temenos Transact, Temenos Infinity, Temenos Payments, and Temenos Financial Crime Mitigation as well as Fintech solutions like regulatory reporting, authentication, KYC solutions, card services, and payment solutions available on Temenos Marketplace.

Sanjay Jalona, CEO & Managing Director, LTI, said “LTI’s digital banking platform combines our functional and technological expertise to modernize operations without huge upfront investment or license cost. The consumption based model offered by the platform will enable banks to stay competitive without worrying about technology cycles. We are proud of our partnership with Hoist, and look forward to enabling their expansion across Europe.”

LTI’s Digital Banking platform will seamlessly operate across existing Hoist applications and infrastructure through an API driven interface to connect with third party systems.

Julia Ehrhardt, Chief Retail Banking and Business Development Officer, Hoist Finance, said: “LTI’s state-of-art digital banking platform will facilitate Hoist in accomplishing its strategic objective of enhancing its market share in the retail banking segment which is estimated to grow from 700 Million SEK currently to 4 Billion SEK by 2023. LTI’s platform is fully scalable, providing Hoist with the agility to expand its performing loans and deposits offering into all of our markets.”

With presence across Sweden, Denmark, Norway, and Finland, LTI is one of the leading IT Consulting and digital solutions providers in the Nordic region. A recent study by Whitelane Research and PA recognized the company among the top performers in the Nordic region and #1 in customer satisfaction in Sweden. The company counts leading banks and financial institutions among its clients in the region.

Hotel Am Triller Welcomes the Infor Cloud

21 May 2021

Infor, the industry cloud company, announced that the Hotel Am Triller in Saarbrücken, Germany, will deploy Infor Hospitality Management Solution (HMS) in the AWS cloud. By moving its IT infrastructure to the cloud, the owner-managed hotel is reacting to the current digitalisation trend in the hospitality industry and helping secure its competitiveness long term.

For more than 60 years, the family-run Hotel Am Triller has served the city center of Saarbrücken, featuring around 200 beds, a penthouse floor, a restaurant, function rooms as well as a sauna, swimming pool and fitness area. By introducing Infor HMS, the hotel is following through with its digitalisation strategy and offering its guests better service with mobile solutions. In the future, it will be able to check guests in and out with their smartphones or tablets, and also book guest services – reducing direct contact and making the maintaining of security distances easier. In addition, the service feels more individual, personal and efficient.

Infor HMS was developed as a management system for hotels. Users benefit from inherent flexibility and scalability thanks to cloud technology. Infor HMS is designed to link all aspects of a business, giving managers full insight into current growth and potential for improvement. Not only does the hotel operate at a higher level, the guest experience also constantly improves. Users can see a guest's entire

CIMdata PLM Industry Summary

sales history in Infor HMS at any time and can personalise their stay with individual arrangements.

"Fortunately, the COVID-19 pandemic was not a decisive factor for us when we chose HMS," says Björn Gehl-Bumb, owner and managing director of Hotel Am Triller. "Rather, we wanted to prepare ourselves for the future with the help of a cloud-based solution. Especially for us as a small business, it is important to always be up to date to be able to offer our guests the best possible stay. And since we have been working successfully with Infor for several years, it was not a difficult decision for us to choose Infor HMS."

"The example of Hotel Am Triller shows that our cloud-based solutions are not only suitable for global corporations but are scalable for any size of company," says Jens Böcker, Infor sales director DACH & central and eastern Europe (CEE) for hospitality. "Especially in these times, the hospitality industry needs to adapt to new circumstances. Infor HMS offers an optimal basis for this."

Infor has been a technology partner to the hotel industry for more than 20 years and serves more than 20,000 hotel customers – including 9 of the 10 largest brands in the world. Small individual hotels use Infor systems as well as large chains. The core competence of Infor as a "hotel software company" focuses on three areas: property management systems from the front office to the back office, revenue management systems, and sales & catering. Depending on requirements, the Infor solutions can be used in the cloud or on-premises.

Investing in the Guest Experience: Wyndham Becomes First Major Hotel Company to Begin Rollout of Oracle's OPERA Cloud Globally

18 May 2021

Wyndham Hotels & Resorts, the world's largest hotel franchising company with over 8,900 hotels across nearly 95 countries, today announced the roll out of the next-gen Oracle Hospitality OPERA Cloud Property Management (PMS) to its full-service hotels, making it the first major hotel company to adopt the system globally. The decision comes following successful pilots at nearly 50 Wyndham hotels over the last nine months.

Full-service hotels coming into the Wyndham portfolio, which includes brands like Wyndham Grand®, Ramada® by Wyndham, and Dolce® by Wyndham, will be placed on the new PMS while existing owners have the option of upgrading now or waiting until their existing PMS agreements expire. The Company anticipates approximately 20 percent of its full-service portfolio will adopt the new PMS in the next 12 months with the majority migrating to the system over the next several years.

Wyndham's selection of OPERA Cloud for its full-service hotels represents the latest in a growing list of newly launched technology initiatives by the Company, all of which center on giving franchisees tools to help provide a competitive advantage amid the ongoing pandemic. Last September, the Company launched a new best-in-class customer data platform and prior to that, a fully reimaged mobile app, making it the first to bring mobile check-in and checkout to more than 6,000 economy and midscale hotels.

"The rollout of Oracle's OPERA Cloud represents the next step in Wyndham's continued digital transformation," said Scott Strickland, chief information officer at Wyndham Hotels & Resorts. "Not only does the system help our hotel owners deliver a better guest experience through a host of operational enhancements and efficiencies, it's designed to lower their overall costs by eliminating the need for costly and difficult-to-maintain on-site hardware. Best of all, hotels can migrate to the system remotely in a matter of days, not weeks—allowing hotels, particularly conversions, to open faster."

Through OPERA Cloud, Wyndham and its franchisees have the ability to easily:

CIMdata PLM Industry Summary

- **Scale in the cloud** – Built specifically to run hotel operations, the PMS is flexible and can scale to meet the needs of each hotel without requiring installation and maintenance of on-site hardware.
- **Enable mobile** “anywhere” access – Operators can run their hotel from anywhere while team members can untether from the front desk to serve guests anywhere on property.
- **Streamline operations** – Easy integration with thousands of key partner interfaces means a smoother, more streamlined guest experience with the opportunity for enhanced personalization.
- **Operate globally** – Designed to meet fiscal requirements across more than 200 countries, operators can customize the system to operate in 20 languages.
- **Enhance security and performance** – The PMS is built on Oracle Cloud Infrastructure, which helps hotels elevate the guest experience while helping to deliver higher performance, security and reliability.

“Wyndham’s progressive approach to its digital transformation provides a strategic advantage for its thousands of hotel owners and operators around the world,” said Alex Alt, general manager of Oracle. “Having OPERA Cloud in place allows franchisees to quickly and remotely enhance features for guests as the industry continues to evolve, which is going to be critical in maintaining a competitive edge.”

The rollout of OPERA Cloud builds upon the foundation of a broader, multi-year digital transformation for Wyndham, which in recent months has enabled the Company to quickly stand-up new tools and offerings to help drive more business to its franchisees—particularly from everyday business travelers, such as construction workers, utility workers, truckers and more. Among them are Wyndham Direct, a total booking, billing and payment solution for corporate customers that streamlines travel management with no minimum spend or stay requirements and Wyndham Business, a one-stop-shop for anyone looking to do business with Wyndham and its hotels.

Wyndham first began its digital transformation journey in 2016, which has since resulted in a shift to best-in-class, cloud-based property management systems, a single central reservation system for all 20 brands, and a flexible cloud service and sales platform.

JVCKENWOOD Deploys Cadence Spectre FX Simulator and Comprehensive Design Flows to Improve Productivity

20 May 2021

Cadence Design Systems, Inc. announced JVCKENWOOD has adopted the new Spectre[®] FX Simulator and multiple Cadence[®] custom, analog, digital and verification solutions to accelerate IC development of its consumer electronics applications while minimizing overall design risk. With the constant evolution of consumer electronics and shifting design requirements, JVCKENWOOD decided to replace its previous IC EDA vendor and adopt Cadence-based flows to ensure its designs are high quality and compatible with future design requirements.

JVCKENWOOD has deployed a broad set of Cadence solutions, including the Cadence Virtuoso[®] Schematic Editor, Virtuoso ADE Product Suite, Virtuoso Layout Suite, the Spectre Simulation Platform, Xcelium[™] Logic Simulation and Quantus[™] Extraction Solution. Specifically, JVCKENWOOD selected Cadence for its robust tool sets that are anchored by the industry-standard Virtuoso platform; the seamless integration between circuit, layout and analysis tools; the Virtuoso-PDK readiness and support at major foundries; and the extension of the Virtuoso platform to integrate system design technology. Additionally, JVCKENWOOD needed more system-level design capabilities that are offered in the Virtuoso flow, such as photonics, thermal reliability, RFIC-PKG co-design and

CIMdata PLM Industry Summary

electromagnetic (EM) analysis.

In the consumer electronics industry, meeting aggressive time-to-market deadlines for delivery is critical. A misstep in delivering a timely, quality design to the market could mean the difference between a successful product launch and missing a valuable market opportunity. The Cadence solutions minimized the learning curve for JVCKENWOOD engineers because each toolset incorporates the same familiar use models. With the new Spectre FX Simulator, JVCKENWOOD achieved highly accurate and 3X faster simulation performance to ensure their IC designs function as intended and meet specifications. In addition, the Cadence tools provide JVCKENWOOD with the following benefits:

- The Virtuoso ADE Assembler lets JVCKENWOOD engineers track and analyze design specifications easily, ensuring better product quality
- The Spectre Simulation Platform, which includes the new Spectre FX Simulator, provides reliable simulation accuracy, speed and capacity
- The Xcelium Simulator offers close compatibility with the Virtuoso and Spectre platforms to deliver efficient mixed-signal simulation and verification
- The Quantus Extraction Solution provides deep integration and accurate information about parasitic influences on their designs, ensuring better product quality

“To deliver high-value solutions to our customers in the Automotive, Public Service and Media Service sectors, we must hit specific time-to-market targets to be successful,” said Yoshio Sonoda, Director of the Board, CTO, at JVCKENWOOD. “Adopting comprehensive Cadence design flows, which include the newly introduced Spectre FX Simulator, helps us to not only design, analyze and verify our products with complete confidence, but also helps us deliver those designs with a 40% time-to-market reduction in a specific product group. By adopting a broad set of Cadence solutions, we are ensuring that we can be successful today while benefitting from flows that can adapt to our future needs.”

“Cadence continues to innovate and bring new solutions to market, such as our new Spectre FX Simulator, and we also place a strong emphasis on integrating new tools into solutions that provide optimal value to our customers,” said Tom Beckley, Senior Vice President and General Manager of the Custom IC and PCB Group, Cadence. “Our vision and delivery of complete system solutions for chip, package and board provide JVCKENWOOD with a substantially better design and verification environment than they had previously with other vendors.”

The new Spectre FX Simulator and custom, analog, digital and verification toolsets support the Cadence Intelligent System Design™ strategy, enabling SoC design excellence.

Kanko Selected Fashion On Demand by Lectra for School Uniform Production

17 May 2021

Lectra is pleased to announce that the Kanko Gakuseifuku, the Japan top school uniform company, has chosen Fashion On Demand by Lectra that automates the entire personalization process from product development to final cutting stages.

Founded in 1854, Kanko has developed business and maintained stable operation. Today, the company is a leader in the Japanese school uniform industry, delivering uniforms and gym uniforms to over 15,000 schools throughout Japan.

The peak production period for school uniforms is from January to March in preparation for the entrance ceremony in April, with the peak production period being about two weeks from mid-March to early April. The cutting process is the biggest bottleneck in the production of a wide variety of products in

CIMdata PLM Industry Summary

small lots with short delivery times. Especially for slacks and skirts, there were many products with checkered patterns, and the process of matching the patterns required time and skill. When the company learned about Lectra Fashion On Demand, they were convinced of its fast and accurate pattern matching cutting technology and efficient customized production, and decided to implement it. According to Shigeru Ozaki, Managing Director, Kanko “The demand for quick delivery of a wide variety of products in small lots has been increasing year by year. We have high hopes that the introduction of this revolutionary technology will lead to a dramatic improvement in production efficiency and quality.

Akihiko Tanaka, Managing Director, Lectra Japan says “Whether it is customizing items or producing limited editions, all of our customers are focused on producing high quality goods. We are proud that Lectra Fashion On Demand has been chosen by many well-known brands to achieve digitalization while maintaining the brand value and business model that we have developed over the years. The fact that this solution has been implemented in many different types of companies, from women's wear to work wear, and has been able to meet their specific needs, proves the flexibility of this solution.”

In addition, Akihiko Tanaka also mentions “I am very happy that Kanko selected Fashion On Demand by Lectra as the first Japanese customer. Kanko valued the operation site that they often visited our cutting lab in Kobe to confirm their operation of mass-customization production and they finally decided to invest Lectra solution. By digitalizing production process, our project team are glad to support Kanko to achieve dedicated production.”

Katech develops digital replica of Daegu city to enable autonomous vehicle certification and policy development

20 May 2021

MSC Software Corporation (MSC), part of Hexagon’s Manufacturing Intelligence division, has helped KATECH create a high-fidelity virtual test platform to verify that safety-critical Advanced driver-assistance systems (ADAS) and autonomous systems will perform as intended in a real urban environment. By scanning cities and simulating how vehicles behave – from how LiDAR sensors perceive objects to how their handling could impair evasive manoeuvres – the Korean research institute is enabling the automotive industry to safely introduce future vehicles.

Passenger vehicles can already read traffic signs or detect passing traffic, but the latest ADAS systems and autonomous vehicles are complex and, despite significant effort of manufacturers to ensure they respond to every event safely, governments require verification. Global authorities are developing methods to support the certification of vehicles and accompanying policy development so that next-generation vehicles can be safely and efficiently introduced to urban environments.

Vehicles are guided by sensors that ensure they are “situationally aware,” of their position and of any physical hazards, but this process becomes increasingly more complex in a city environment with unexpected hazards. South Korean research institution, KATECH, is helping automotive manufacturers and their suppliers develop the necessary technologies and tests. The Institute is involved in the physical testing of self-driving vehicles and it wanted to implement them in a virtual environment to verify that safety-critical ADAS and autonomous systems will perform as intended in a realistic urban environment. Through such research and development, it intends to build basic environment data and data to support certifications and laws related to autonomous driving in Korea.

KATECH invested in MSC Software’s Adams software to simulate vehicle dynamics in 2019, subsequently implementing its VIRES Virtual Test Drive (VTD) software for creating virtual road environments. By combining these industry-leading simulation solutions from Hexagon, it is now able

CIMdata PLM Industry Summary

to perform highly realistic simulations to understand how a specific vehicle with Advanced Driver Assistance Systems (ADAS) or autonomous capabilities will perform in real road conditions.

The industry faces a constant demand to link various solutions, and Seong-Jin Kwon, KATECH's director of Vehicle Safety Research Center, says: "In order to study autonomous vehicles, all platforms, such as simulations and real vehicle tests, had to be built, including building an autonomous vehicle simulation environment, and using it to create conditions in which the driver either has to intervene, or not intervene, in real time. There have been many attempts to link everything, but it was harder than expected, so we had to proceed with the simulation and simulator parts that were realistically possible."

One of those aspects was to model the entire South Korean city of Daegu Technopolis and Daegu National Industrial Complex and transfer it into a simulation environment. The city's infrastructure makes it ideal for testing self-driving cars, and aims to establish itself as a global hub for conducting those tests. Dr. Seong-Jin Kwon says that as well as building precise maps for autonomous driving, there is also a real-time monitoring system for vehicles and their surrounding conditions, along with a data collection, storage and analysis system, making Daegu Technopolis and Daegu National Industrial Complex an optimised city for research on autonomous driving.

KATECH used Adams Real Time in combination with VTD and 3D mapping data from Hexagon's Leica Geosystems business to build this virtual environment. Their team was already familiar with Adams for performing their vehicle dynamics tasks, and VTD was being used by other divisions. Combining these two solutions provided a comprehensive answer to complex toolchain issues. This is achieved by employing real-time simulation to provide the stability and deterministic results required irrespective of the variations in the fidelity of simulation that are introduced by including multiple vehicle dynamics models or different scenarios.

Developed specifically for the automotive industry, Adams Car enables KATECH to complete virtual prototypes of vehicles using prebuilt templates. "We run these through multiple open and closed-loop scenarios, meaning we can perform the same tests virtually, that the team usually runs in a test lab or on a test track." It allows KATECH's engineers to zoom into any aspect of the vehicle dynamics, and utilise the same vehicle model, during all stages of development, from design to validation.

Using standard tool-independent interfaces, Adams connects to VTD, enabling KATECH to create a virtual environment resembling the real world. "It means we're able to simulate complex urban situations including pedestrians with unpredictable behaviour, weather variations, visibility, and vehicle dynamics. The combination of Adams and VTD is our starting point for analysing ADAS functionality and autonomous vehicles." Dr. Seong-Jin Kwon says VTD easily met one of KATECH's vital requirements – namely the ability to provide full flexibility to integrate with third party tools – and used data provided in the OpenDRIVE, OpenCRG, and OpenSCENARIO standard formats to create road networks and incorporate dynamic behaviour such as road surfaces and traffic.

Crucially VTD's physics-based simulation of the LiDAR and RADAR sensors around a vehicle helps to determine "false-positives" where a vehicle's perception of its surroundings is impaired. Because these sensor models employ ray tracing techniques, KATECH can scale from a few high-resolution images to a large number of lower resolution images depending upon the number of rays that must be simulated to adequately test a given system.

Hexagon provides multiple solutions, from early software development, right through to validating real prototype vehicles on the road. This includes road scanning with Leica Geosystems, validation of GNSS sensors with NovAtel, and vehicle prototype validation from AutonomousStuff. The complete solution from Hexagon reduces dependency on third party tools, enabling companies to perform full testing in-

house.

Midwest Wheel Boosts Customer Service with Infor Coleman AI-Driven Parts Recommendations

17 May 2021

Infor, the industry cloud company, announced that Midwest Wheel Companies, one of the largest truck parts distributors in the Midwestern U.S., is using Infor Coleman AI-driven parts recommendations to boost customer service — reducing sales order processing time by 30 percent and helping customers save money by ordering the right mix of parts.

Midwest Wheel has seven facilities in Iowa and Missouri, and carries a full line of replacement heavy-duty fleet products, light truck accessories, light trailer products, commercial fleet parts, and school bus replacement parts.

According to Steve McEnany, vice president of marketing and technology at Midwest Wheel, Infor's cloud solutions have played a key role in growing the business and enabling Midwest Wheel to recently open its seventh location. "I really don't see us having a seventh location if we hadn't made the move [to Infor cloud solutions], because we would have been on a much slower growth path," he explained.

McEnany said Infor's Coleman AI solution has put parts information and recommendations at the fingertips of its customer-facing teams, enabling them to serve customers more effectively.

Previously, some of the company's customers lost time at the sales counter, or over the phone, when salespeople had to manually search for the right interdependent parts to order for repairs. In some cases, customers needed to come back and place orders for more parts if they didn't get all they needed the first time. Further, salespersons sometimes missed additional sales opportunities because they weren't always familiar with all the combinations of parts that are commonly sold together.

In looking at ways to automate and improve the process, Infor developed an artificial intelligence (AI) application, which analyzes order data and includes a recommendation engine. The application was deployed in only four weeks, and Midwest Wheel's salespeople didn't need any special skills or training to use it.

McEnany explained that the Infor Coleman AI solution has improved the customer experience and improved sales productivity — as parts recommendations have now been embedded in sales order screens.

"Infor Coleman AI can shorten the time on the phone and parts counter by up to 30 percent," McEnany said. "When you look at what it costs per minute to spend time with a customer to process an order, there's certainly some dollar savings just in that alone. And, the fact that the machine is recommending parts, which a salesperson might have forgotten to suggest, also adds to the bottom line."

For example, McEnany noted, Infor Coleman AI was able to recommend 10 accurate additional parts for a spring order, based on what has been ordered in the past. Ultimately, customers can also save money, because initially ordering the right mix of parts can translate to increased product lifetimes and fewer repairs.

As a longtime Infor customer, Midwest Wheel also is using Infor CloudSuite Distribution and Infor Birst analytics to help manage inventory across its seven warehouses, enable complex Infor Intelligent Open Network (ION) workflows and alerts, and do more online business. With Infor's multi-tenant cloud solutions, including Infor OS (Operating Service), the company has improved customer service, realizing as much as a 15 percent improvement in order fill rates.

CIMdata PLM Industry Summary

SAP DATA ANALYTICS HELPS MEASURE HOW FOOTBALL IS CHANGING LIVES

17 May 2021

City's global charitable initiative, Cityzens Giving, supports youth-led community football projects in cities worldwide, focusing on improving health, education and social inclusion for local young people.

Since its inception, Manchester City has been using football to uplift communities.

Witnessing its growing community football impact in Manchester and across the globe, the Club turned to SAP, the Official Cloud Software Partner of City Football Group, to help them measure the impact of their programmes on young people.

SAP created a tailor-made solution using SAP Hana Cloud and SAP Analytics Cloud to create real-time insights into how the lives of children are being positively impacted through community football projects in cities across the world.

Through SAP Analytics Cloud, Cityzens Giving can generate reports to show not only the number of participants the projects reach and demographics, but crucially, how football is impacting their lives.

For example, what percentage of young people surveyed across the globe are reporting improvements in areas such as confidence, educational attainment, health, and friendships?

Tom Pitchon, Director of City Football Foundation, said: "We needed an impact measurement system that would work globally.

"SAP created a fully customised solution for us, using their leading-edge technology and a team of dedicated experts.

"Now we have an integrated dashboard showing us how football is impacting key world issues for young people across the world.

"It has fostered a more data-driven culture, which allows us to create even more impact for city kids around the world through the power of football. This is a game-changer."

For City, SAP technology has been the key enabler to measure and continuously improve the impact of our Cityzens Giving programmes on city kids worldwide.

Harnessing SAP tools, we can accelerate our mission to uplift the lives of city kids through the power of football.

For more information, please visit: <https://saphanajourney.com/sap-analytics-cloud/customer-stories/city-football-group-driving-change-with-analytics/>

Vaillant Group Selects DXC Technology to Help Shape the Heating Market of Tomorrow

19 May 2021

DXC Technology announced that it has been awarded a long-term contract by Vaillant Group, a global market and technology leader in heating, ventilation and air-conditioning technology, to support Vaillant on its transformational journey to modernize its IT estate and workplace, while also helping to ensure the continued security, stability and resilience of Vaillant's existing technology.

DXC will provide outsourcing IT services and modernization capabilities to run and maintain Vaillant Group's IT systems effectively and efficiently and provide a path to move portions of their IT estate to the cloud whilst maintaining GDPR compliance. Combined, this will help the Vaillant Group accelerate its strategy to enable the use of cutting-edge heating equipment in each and every home in the 60 countries where it operates. DXC will also provide Vaillant Group's employees with a modern workplace experience so they can work seamlessly and securely anytime, anywhere and on any device.

CIMdata PLM Industry Summary

Building on Vaillant Group's long and deep history with DXC, the company was selected for its detailed knowledge of the IT estate; its expert delivery and engineering teams; as well as its ability to integrate, operate and secure legacy and multicloud environments. In addition, Vaillant Group chose DXC for its track record at providing a more personalized, intelligent, secure and modern workplace experience to help Vaillant Group address its rapidly evolving business challenges and employee needs.

"We are delighted to be working alongside Vaillant Group to support their vision to shape the heating market of tomorrow and continue to expand their business globally using our Enterprise Technology Stack capabilities," says Hans Leisentritt, general manager for Germany, Austria and Switzerland, DXC Technology. "The services we will provide as the 'new DXC' will help modernize Vaillant Group's IT estate and workplace, bring greater agility and possibilities for greater innovation, enabling the Vaillant Group to accelerate its aim to help customers switch to energy-saving and eco-friendly hot water, heating and cooling systems."

Steffen Ascher, Vaillant Group CIO, adds: "Vaillant Group has been working with DXC for two decades and will continue the partnership to accelerate the next steps of our business transformation and modernization. Digitalization is apparent throughout the entire Vaillant Group. We are developing streamlined processes and expanding our core business through digital business models, thus adding even more value for our customers and partners. We are offering our customers new services and customized energy management solutions. We are helping our partners to optimize their services and make their processes more efficient. DXC will support us with executing these strategies."

Product News

"BETA CAE Systems announces the release of the v20.1.6 of its software suite"

19 May 2021

About this release

BETA CAE Systems announces the v20.1.6 release for ANSA/EPILYSIS/META and KOMVOS, hosting numerous fixes in recently detected issues.

Follows a selection of the most important items:

License Management for ANSA and META

Focusing on the Command Line arguments, the LM retry option (-lm retry timeout) can now be restricted by user-defined timeout.

The respective flag is followed by the desired timeout in seconds and its minimum acceptable value is 60.

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

Known issues resolved in ANSA

Translators JT

Parts might be missing, when the Read mode included Geometry.

Database Browser

Abnormal termination might occur upon deletion of solid elements, when deleted directly (e.g. through the Database Browser list of solids) or indirectly (e.g. through the deletion of other containers such as, includes or Model Containers).

CIMdata PLM Industry Summary

Volume Mesh

Octree algorithm: Small areas are now identified more accurately and, therefore, the quality of volume mesh in Cavity is now improved.

Hexa Block

Unexpected termination could occur if a database containing pentahedral boxes was meshed by the "Mesh" function from the Hexablock list.

Compare Report

Report for Connection entities would not be generated correctly.

NASTRAN

Several issues regarding B.C. SETs and specifically HEADER have been addressed, including:

- The OUTPUT keyword would not be written, upon Case Control Command execution.
- The activation/deactivation of SOL400 Steps via scripting for HEADER [New > Loadcase] would not function properly.

Scripting

Upon base.ConsToCurves() execution, unexpected termination could occur in case other entities - instead of CONS- were provided as input arguments to the function.

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

Known issues resolved in META

Decks - HyperView

*h3d files, referencing 2019 & 2020 HyperView libs, are now successfully interpreted in META.

Decks - NASTRAN

META could cease to respond if multiple META sessions used femzip NASTRAN models to read results simultaneously.

Unexpected termination could occur when coordinates were written with single precision.

Decks - LS-DYNA

Reading geometry from *.d3plot files resulted in incorrect PID thickness.

Results would not be correct for partially loaded geometries.

Decks - TAITherm

Results in EnSight format would not be successfully read.

NVH Calculators – FRF Assembly

When modal participations were requested for a single component with no connections, the calculated results would be falsely zero.

Curve Functions – Contribution Analysis

Session command for creating contribution analysis plots would not accept curve ID ranges. Moreover, the fractions plots were not created correctly if the curve list displayed the curves from all windows.

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

Compatibility and Supported Platforms

ANSA files saved by all the first and second point releases of a major version are compatible to each other. New major versions can read files saved by previous ones but not vice versa.

META Project files saved from version 20.1.6 are compatible and can be opened by META version 16.0.0 or later. To be readable by META versions earlier than v16.0.0, they have to be saved selecting the option "Version 16.0.0" or "Version <16.0.0".

Support for Mac OS has been discontinued.

Support for 32-bit platform has been discontinued for all operating systems.

Download

Where to download from

Customers who are served directly by BETA CAE Systems, or its subsidiaries, may download the new software, examples and documentation from their account on our server. They can access their account through the "sign in" link at our web site.

Contact us if you miss your account details. The Downloads menu items give you access to the public downloads.

Customers who are served by a local business agent should contact the local support channel for software distribution details.

What to download

All files required for the installation of this version reside in the folders named "**BETA_CAE_Systems_v20.1.6**" and are dated as of **May 19, 2021**. These files should replace any pre-releases or other files downloaded prior to that date.

The distribution of this version of our pre- and post-processing suite is packaged in one, single, unified installation file, that invokes the respective installer and guides the procedure for the installation of the required components.

For the installation of the software on each platform type, download from the respective folders, the .sh file for Linux or the .msi file for Windows.

In addition to the above, optionally, the META Viewer is available to be downloaded for each supported platform.

The tutorials and the example files reside in the folder named "TUTORIALS". This folder includes the complete package of the tutorials and example files, and a package with only the updated ones.

The Abaqus libraries required for the post-processing of Abaqus .odb files are included in the installation package and can be optionally unpacked.

Earlier software releases are also available in the sub-directory called "Previous_Versions" or in a folder named after the product and version number.

'SOAR with Accenture' Takes RISE with SAP Transformations to New Heights

20 May 2021

Accenture launched 'SOAR with Accenture,' a collection of assets and services that can enable business transformation across specific industries and functions. This curated set is optimized to support deployments of RISE with SAP, an SAP® offering that helps companies use technology to redesign business processes for more valuable outcomes. SOAR with Accenture raises business transformation to the next level by driving the use of industry and function best practices, cloud capabilities, and helping

CIMdata PLM Industry Summary

accelerate time to value while fostering innovation.

New research from Accenture shows that technology has taken on a critical role in business growth and success. Leading companies are growing revenue at five times the rate of their peers by stepping up investments in cloud, artificial intelligence and other technologies. RISE with SAP aims to bring a holistic approach to transformation with business process intelligence capabilities, cloud infrastructure, SAP Business Technology Platform, SAP Business Network and SAP S/4HANA®. SOAR with Accenture amplifies the benefits of RISE with SAP by helping enable faster and easier SAP S/4HANA migrations at all stages of a company's transformation journey. With advisory-led services and pre-configured solutions across industry and business functions, SOAR with Accenture can help companies reinvent business models, processes, and customer and employee experiences.

SOAR with Accenture bundles business transformation capabilities and assets — including industry and technology benchmarks and assessments, reference architectures, process models, change management toolkits, accelerators and industry cloud apps — to help companies plan for, implement and manage RISE with SAP projects. Delivered through the Accenture myConcerto® platform, companies can use design thinking methods to identify business challenges, define a transformation vision and build a value case that guides their roadmap, delivery, change management and continuous innovation. Accenture myConcerto also offers tailored transformation services covering software, platforms and architecture for more than 25 industries.

Navigating business transformation includes choosing the right cloud solution that can address specific business requirements. SOAR with Accenture includes capabilities of Accenture myNav®, a proprietary assessment platform that can evaluate, architect and simulate SAP solutions in cloud environments to help determine the best offering for business requirements. Accenture myNav evaluates multiple variables including infrastructure, operational model and business outcomes, to help determine an optimal solution that can expedite business transformation.

“Supporting RISE with SAP, we are helping companies navigate their choices, define the best approach, and jumpstart their business transformation,” said Caspar Borggreve, global lead, Accenture SAP Business Group. “Accenture's strategic co-development programs with SAP span SAP S/4HANA, customer experience, industry cloud solutions and sustainability. SOAR with Accenture builds on these programs and combines them with our industry and function knowledge to boost transformations and scale new innovations.”

“The support of our vast ecosystem is fundamental to RISE with SAP. The way in which Accenture, as a strategic partner, is embracing the offering through the launch of SOAR with Accenture is paving the way for our customers to both embark on, and advance, their business transformation journeys. This move absolutely reaffirms to us the value of RISE with SAP and the impact it can have on organizations, regardless of industry or cloud readiness. When coupled with the right expertise and experience from partners such as Accenture and with the momentum continuing to build as RISE with SAP evolves and matures, I have every confidence that together we will power acceleration of cloud adoption and business growth for customers all over the globe,” said Brian Duffy, President of Cloud, SAP.

SOAR with Accenture also provides companies with a dedicated approach to innovation and extensibility to adopt new assets and build differentiated solutions at speed. This approach helps clients move SAP S/4HANA to the cloud with lower risk and cost, as well as extend capabilities with SAP Business Technology Platform and other cloud-native technologies. To learn more, companies can join Accenture-led sessions at SAPPHERE on June 7 and June 21.

Agiloft Launches Module Add-On to CLM Platform for Improved Sourcing and Supplier Information Management

19 May 2021

Agiloft, the global standard in no-code contract lifecycle management (CLM), announced the release of its Sourcing and Supplier Information Management module, a new add-on to reduce sourcing cycle time, automate supplier onboarding, and ongoing compliance.

"Our next-generation module provides advanced tools in the source-to-contract process," said Andy Wishart, Agiloft chief product officer. "As the latest step in the accelerated development of our platform, this release further empowers sourcing with contract data. Our customers can now extend their CLM solution with new functionalities that reduce the cycle time from initiating a sourcing event (RFx) to a signed contract and which adapt easily as their business needs evolve."

The new module highlights include:

Streamlining the source-to-contract process by centralizing the creation, approval, collaboration, and decision making for sourcing events:

- Create standardized templates with pre-approved language for RFIs, RFPs, and RFQs. Customize supplier questionnaires and templates.
- Invite suppliers to submit responses and quickly collect and collaborate around the submission.
- Allow stakeholders to appraise, score, and compare suppliers for their projects.
- Stay on schedule with notifications and alerts to team members and suppliers.
- Convert awards into contracts with the click of a button, using approved terms and conditions.

Automation of supplier information management to save time and ensure suppliers meet all requirements:

- Allow prospective suppliers to register and provide the necessary data and documents through a vendor portal.
- Compile data to verify compliance with business criteria and policies.
- Automate supplier contract notifications and requests for documentation.

Access to unified Source-to-Contract platform. Tap into a unified experience with Agiloft's CLM platform to quickly identify existing suppliers of goods, services, or commodities and then adapt your process as business needs change.

- Gain visibility into the full spectrum of supplier relationships and contract terms to identify areas for simplification and opportunities for volume discounts.
- Get alerts for upcoming expirations and identify a pipeline of new sourcing opportunities.
- Provide users with a unified sourcing and contracting user experience.
- Configure the Agiloft no-code platform to precisely fit and quickly adapt to your needs.

"As the first of many add-on modules extending CLM to adjacent processes, we are continually increasing the value of Agiloft CLM for the enterprise," said Eric Laughlin, Agiloft CEO. "As the only CLM platform to provide no-code AI capabilities, Agiloft offers unmatched possibilities for customization and automation of complex contract and commercial workflows—all without needing to write a single line of code. The new capabilities of this latest release take CLM to the next level, helping sourcing and supplier management deliver more business impact."

Altium Advances Electronic & Mechanical Co-Design

20 May 2021

In the process of designing electronic products for industries like IoT, autonomous vehicles, and industrial automation—mechanical and electrical engineers face multiple challenges. One of the greatest sources of frustration mechanical engineers face happens when mechanical and PCB designers collaborate on the same electronic design assemblies.

During the design process of any complex electronics product, both mechanical and PCB designers are continually importing, exporting and converting files in an effort to keep mechanical and electronic designs in sync. This adds hours of manual labor, data loss, and rework to the design process - and yet engineers on both sides are still working in serial, and largely isolated from each other.

“Export and import of files is what most EDA companies are calling co-design,” says Ted Pawela, Chief Ecosystem Officer at Altium. “That’s like sending someone a letter in the mail and calling it collaboration. Altium CoDesigner simply keeps MCAD synchronized with ECAD so that electronic and mechanical design teams can truly work concurrently.”

Altium’s CoDesigner capability gives PCB designers using Altium Designer (with an active subscription) a much faster and easier way to collaborate with mechanical designers working with tools like PTC Creo, Dassault Systèmes SOLIDWORKS®, Autodesk Inventor, and Autodesk Fusion 360®. Mechanical engineers can use CoDesigner capability at no cost and while staying in their favorite MCAD design environment.

“With CoDesigner capability, we can detect potential problems like we couldn’t before,” reports Jeremie Waller, Sr. Electrical Engineer at Quantel Laser USA, a division of Lumibird, a global leader in laser technology. “We can see silkscreens, hidden vias, make sure polarities are correct, where copper traces are—our models are now 100% complete, including overlay and copper. I don’t have to worry about board shapes, or connector placements, even in very tight spaces. With CoDesigner capability, we have the confidence that everything will fit exactly as planned when it goes to manufacturing,” Waller adds.

To set up CoDesigner, mechanical engineers only need to download a free plug-in from the Altium website or the MCAD plug-ins page inside Altium 365 for their MCAD tool. Once they’re ready to share, mechanical designers can just synchronize their MCAD tools with Altium Designer and Altium 365.

Paul Spendley is a Senior Electronic Engineer at YASA, LTD., a manufacturer that specializes in electric motors, controllers and powertrain solutions for hybrid and electric automotive and aerospace manufacturers. For Spendley, the combination of Altium 365 and CoDesigner has completely changed the way his team works.

As he explains, “MCAD/ECAD collaboration before CoDesigner was emailing STEP files; sometimes they would open, sometimes they wouldn’t. Components would get lost, so it would take us multiple iterations to get designs right. On the ECAD side, this required at least 3-4 steps that took about 10 minutes each; and on the MCAD side, it took hours.”

The addition of CoDesigner has changed this process completely. “Our mechanical designers always have the most up-to-date ECAD design. I can push the latest design changes directly to their MCAD tool—we have a two-way design process now,” Spendley reports.

Laine McNeil, Sr. Mechanical Engineer at Quantel Laser USA, concurs. “Before we started using Altium’s CoDesigner, there was an element of “Us vs. Them.” It is a much more collaborative process now. We no longer lack context when working with our PCB design teams.”

Eliminating Hours of Extra Work Using a Simple Plug-in

Altium's CoDesigner gives mechanical engineers the ability to design alongside PCB designers in real time, and empowers effortless product design reviews.

Accessing CoDesigner is easy for both ECAD and MCAD users. The MCAD CoDesigner extension is included in the standard Altium Designer installation, appearing as a panel that's always available in the PCB editor. Once MCAD users install the aforementioned plug-in, CoDesigner is just as effortlessly accessible.

For Thomas Pottle, Electronic Design Engineer at AERQ, a leading digital cabin technology firm, Altium CoDesigner has been a huge time saver. As Pottle explains, "Before we started using CoDesigner, we were manually transferring files over email, from ECAD to MCAD only. In just one project, I generated over 40 files in ECAD, with each taking about 30 minutes to upload into my MCAD software. This was especially frustrating when files didn't work, and I had to spend hours trying to figure out why."

Once AERQ's electronics design team added Altium CoDesigner, their processes changed dramatically. "With CoDesigner, it's just so much easier," Pottle confirms.

"Using Altium 365 and CoDesigner has been a quantum leap in our design process. And CoDesigner's right there inside Altium Designer—I can't imagine not using it," Quantel's Jeremie Waller concludes.

Bechtel adds Dropbox to portfolio

20 May 2021

Bechtel has entered a sales partnership with Dropbox and will now be offering their cloud-based products across Europe via its own multi-cloud platform—bolstering its portfolio with integrated cloud solutions for data storage, sharing and collaboration.

The Dropbox Standard and Advanced solutions for teams and Dropbox Education for higher education can now be procured via the multi-cloud platform bechtel-clouds.com. Dropbox offers extensive features for cloud storage, data sharing, virtual collaboration and professional user administration while simple integration into existing security and application environments promotes collaboration among groups and teams by allowing data to be shared, edited and digitally signed in Dropbox.

"Efficient working, regardless of the time and place, is absolutely necessary for our customers nowadays. Dropbox provides excellent solutions for smart collaboration, and simple procurement via our Clouds Marketplace can provide significant added value for companies and educational institutions, making this a rewarding addition to our existing portfolio and the beginning of a promising partnership," says Melanie Schüle, Managing Director, Bechtel Clouds.

"Bechtel is a strong partner and expert in digital workflows. We look forward to driving virtual collaboration for customers across Europe together. In addition to cloud collaboration, I also see huge potential for growth and digitalisation in the field of digital signatures with our HelloSign product. Dropbox will provide Bechtel customers with a secure cloud collaboration program, the sharing and storage functions of which have been used successfully by 700 million users across 180 countries," says Andrea Trapp, Vice President of Business International, Dropbox.

CADfix PPS Solution Boosts AVEVA E3D Design Performance

19 May 2021

Leading interoperability solution provider International Technegroup Incorporated (ITI) has

CIMdata PLM Industry Summary

collaborated with AVEVA, a global leader in industrial software, driving digital transformation and sustainability, to use ITI's CADfix PPS model simplification solution to enhance the performance of AVEVA™ E3D Design, the advanced 3D design solution for the process plant, marine and power industries.

Fueled by the CADfix PPS automatic model simplification solution, AVEVA E3D Design has been enhanced with two new add-on products – AVEVA Model Simplification and AVEVA Native Model Simplification – which allow engineers to resolve the complex issues faced when importing very large and complex equipment assembly models. The advanced CADfix PPS automatic simplification wizard enables the rapid and automatic removal of small parts and unwanted computer-aided design (CAD) features, as well as the removal of internal parts and simplification of complex parts to basic shapes, which further helps to improve overall performance.

Brian Hughes, Senior Portfolio Manager of AVEVA's Design & Execute software, said, "A plant layout includes many machines and large equipment installations. Having a CAD model of these installations with all the non-essential details can adversely impact performance in the layout tool. The new AVEVA simplification tools powered by CADfix PPS allow users to eliminate excessive details and small CAD features to seamlessly integrate the equipment model into the plant model. Customers can now significantly increase the performance of AVEVA E3D Design solution and enhance productivity across design teams."

The new add-on products enable users to import into AVEVA E3D Design complex 3D CAD models of equipment items that have been created in external Mechanical CAD (MCAD) systems. During the import process, the equipment items can be simplified before being inserted into the typical design database to greatly enhance performance. Smaller models mean faster working, loading, clashing, and creation of drawings. The imported equipment items behave in the same way as other AVEVA E3D Design objects to ensure customers can work on projects more efficiently with ease and accuracy.

Andy Chinn, Director, ITI, said, "We are delighted to have worked with AVEVA to deliver the new model simplification products that extensively heighten performance and allow customers to shrink large files ahead of integration of CAD models into AVEVA E3D Design. It is rewarding to see CADfix PPS contributing to the enriched stability and usability of plant design systems containing large equipment models, saving days of non-productive geometry handling, and ultimately helping customers increase efficiency and get to production faster."

Centric Software Launches Next Generation of Food & Beverage PLM

18 May 2021

Centric Software, the Product Lifecycle Management (PLM) market leader, has launched PLM solutions specifically for the food and beverage industry. Centric Software provides the most innovative enterprise solutions to plan, design, develop, source and sell products such as apparel, footwear, sporting goods, furniture, home, health & beauty, luxury and now food & beverage to achieve strategic and operational digital transformation goals.

Partnering with 450+ brands, retailers and manufacturers across 30+ countries and combining Silicon Valley innovations with market-driven best practices, Centric Software has successfully expanded across multiple industries. Boasting a 99% customer retention rate, Centric is now bringing PLM innovations and its proven speed, ease of use and Agile DeploymentSM methodology to the food and beverage industry.

Centric's flagship platform, Centric PLMTM, is packed with industry-led technologies to boost new

CIMdata PLM Industry Summary

product development (NPD), accelerate time to market, optimize product assortments, reduce Cost of Goods Sold (COGS) and facilitate private label development and supplier co-creation while respecting quality and compliance requirements.

“Centric Food and Beverage PLM brings the power, maturity and agility of the Centric Platform combined with built-in industry-driven product concept to consumer innovations, such as product portfolio management (PPM), end-to-end (CAD neutral) 3D and social (Slack, Teams & other) PLM workflows, a vendor collaboration portal for sourcing and supplier co-creation, calendar management, integration with other business systems (ERP, e-commerce, etc.), and much, much more,” says Ron Watson, VP of Product at Centric Software. “In addition, we have also developed innovations that are specific to the needs of the food and beverage industry including formulation management, packaging development, artwork proofing, labeling and open API connections to nutritional databases such as USDA and CIQUAL.”

“Centric’s move into the food and beverage market is a natural evolution for a company that always pushes its industry expertise of PLM,” says Predrag (PJ) Jakovljevic, Principal Analyst, Enterprise Applications at worldwide advisory firm, Technology Evaluation Centers (TEC). “In recent years, we have seen Centric successfully move from fashion and consumer goods into industries as diverse as furniture, cosmetics and multicategory retail, always with deep vertical-specific expertise. Centric’s solutions are consistently powerful, highly configurable, and capable of managing multiple product categories within the same platform. We observe that Centric brings a wealth of expertise from successful PLM deployments to the food and beverage arena, along with a full suite of intuitive web-based PLM solutions, mobile apps, and industry-first innovations such as PLM-connected digital boards for visual team collaboration.”

Wicked Foods, a leading American mission-led, plant-based food company, selected Centric PLM as their digital transformation partner. Undergoing a thorough selection process, Centric fit operationally, strategically, and culturally and the Centric team had the right balance of experience, flexibility, and expertise for their needs.

“As a brand with a global footprint working with some of the world’s most technically and logistically advanced retailers, we need an infrastructure we can trust to manage the complexity in our business,” says Paul White, COO at Wicked Foods. “Launching dozens of products in different countries simultaneously with unique ingredient and labeling requirements, different retailer timelines and central distribution models and numerous supply chain and compliance standards requires a world-class solution like Centric PLM.”

Chinese condiments company SNS Food recently selected Centric PLM for a digital transformation project to replace many different and disconnected systems, enabling a centralized and simplified data flow centered around products.

“Joining forces with Centric, we are establishing integrated product databases that include raw materials, formulas, regulations, materials and packaging, as well as achieving standardization and digitalization for innovation initiatives,” says Ms. Zhang Min, CEO of SNS Food. “We expect to enhance competitiveness with quick and sensible market judgments. A good product and business model means long-standing competitiveness, even in a pandemic.”

Milarex, a fast-growing international seafood company, looked to Centric PLM to help set the foundation for their current and future business expansion.

“We are scaling fast and we need more professional systems to meet the growing size of our company and set the foundation for even more growth,” says Anders Wilhelmsen, Head of Sustainability and

CIMdata PLM Industry Summary

Marketing at Milarex.

Milarex's Head of IT, Pawel Olubiec adds, "We want our teams to focus on value-added activities, as opposed to hunting for data, and we certainly don't want wrong or incomplete information to hold us back."

"We are very proud to announce the launch of Centric Food and Beverage PLM," says Chris Groves, President and CEO of Centric Software. "Our industry experts and developers have been working hard in partnership with leading food and beverage companies to understand their ever-changing needs. Centric's innovations include features to specifically drive success for food and beverage companies, and we look forward to building more innovation partnerships with food and beverage customers who are seeking digital transformation solutions."

Festo shines with Golden Catalog Seal by CADENAS: Award-winning digital 3D CAD product catalog

18 May 2021

Festo SE & Co. KG was awarded the Golden Catalog Seal by CADENAS GmbH for its comprehensive digital 3D CAD product catalog. Festo has been successfully using the digital product catalog based on the eCATALOGsolutions technology from CADENAS for many years, creating the basis for digital twins of its products. The Festo product catalog fulfills several important criteria such as the integration of a product configurator, automatic 2D dimensioning for CAD components, and product data in at least three languages. These features are checked by the CADENAS quality assurance department. Up to now, the golden catalog seal has been awarded to 24 of the more than 800 product catalogs in the Strategic Parts Management PARTsolutions as well as the 3D CAD download portal PARTcommunity.

Configure Festo products in seconds

Intuitive configurators facilitate product selection in addition to providing intelligent 3D CAD models as digital twins in over 150 common native and neutral CAD formats. This way, engineers and designers can easily and quickly select Festo automation components according to the modular principle and put them together for their specific requirements, despite the immense number of variants. The Festo Design Tool 3D, for instance, enables designers, purchasers and fitters to design, order and put together Festo product assemblies quickly, reliably and efficiently, and to obtain transparent prices and delivery times.

Intelligent engineering data in 15 languages for maximum customer service

The Festo product catalog contains comprehensive engineering data, such as weight, kinematics, coloring, end-of-life, eCLASS classifications, etc., in addition to 3D CAD geometries of the components. They provide maximum convenience and functionality for product development. On the top of that, the product catalog supports the company's international orientation by making all product information available worldwide in 15 languages.

"Thanks to CADENAS' technology, we can offer our customers CAD data in all relevant file formats for more than 33,000 products in several hundred thousand variants," says Jürgen Herr, Head of Customer CAD and Digital Media at Festo SE & Co. KG. "In addition to pure CAD geometry, we place great emphasis on kinematics functions, discontinuation information, product-specific links to our product catalog, and seamless integration into product configurators during the creation process. As a result, we support our customers with consistent and high-quality CAD data even in the early stages of product selection and design."

You are a component manufacturer and want to score with a catalog seal, too?

CIMdata PLM Industry Summary

By adding intelligent information to the digital product data of your existing Electronic Product Catalog, you optimally support engineers and purchasers in their product development process. In addition, the catalog seal will make your product catalog stand out from the crowd in the Strategic Parts Management PARTsolutions as well as on the 3D CAD models download portal PARTcommunity. Your technical products will receive even more attention from potential customers.

Hexagon enhances geocoding capabilities, connects to what3words to boost location capabilities for emergency calls

18 May 2021

Hexagon's Safety & Infrastructure division has enhanced its geocoding capabilities and teamed with what3words to improve the ability of emergency services to locate and respond to those in need. The integration of Hexagon's industry-leading public safety software with what3words' location service will enable Hexagon's customers to respond faster to emergencies when callers are unable to provide their exact location.

Accurate location data is vital for emergency response. However, fewer than 20 percent of emergency requests for service originate from landlines, resulting in fewer calls with precise location details. Hexagon's new Geocoding Interface for its industry-leading computer-aided dispatch (CAD) solution, HxGN OnCall® Dispatch, connects to geocoding capabilities, including an out-of-the-box integration with what3words.

what3words divides the world into 57 trillion 3x3 metre squares, giving each square a new, simplified address made up of three random words. Through the integration, those calling for emergency assistance can explain their location by simply reading out the three words from what3words' app. Emergency call-takers using Hexagon's CAD system enter the what3words location, and Hexagon's software reverse geo-codes the location to present matching addresses from the agency's gazetteer to verify with the caller. The process is managed within the Hexagon software, which interfaces seamlessly with the what3words API.

The experience is simple and straightforward for emergency call-takers, who follow their normal location capture processes, while also helping to remove confusion and frustration for emergency callers. The integration also improves information sharing between emergency services with different systems when hand-off is required, as a what3words address is unambiguous.

"We're really pleased to partner with Hexagon, a leading computer-aided dispatch and public safety solutions provider, to enable even more emergency services to use what3words," said Chris Sheldrick, CEO and co-founder of what3words. "The ability to input precise what3words addresses directly into Hexagon's innovative control room solutions helps services to find, share and coordinate locations more efficiently, crucially saving lives."

"Hexagon is delighted to offer its public safety customers location validation that seamlessly integrates with the what3words methodology," said Nick Chorley, director of EMEA public safety and security for Hexagon's Safety & Infrastructure division. "Now, emergency communications centers can pinpoint a caller's location in the iconic what3words format just the same as a normal street address."

Hexagon public safety solutions help protect 1 in 9 people around the world, and what3words is offered in more than 40 languages and 170 countries.

L&T TECHNOLOGY SERVICES DEVELOPS AN AI BASED SOLUTION

17May 2021

CIMdata PLM Industry Summary

L&T Technology Services, a leading global engineering services company, announced today that it worked with Intel Corporation to develop an outdoor smart parking solution. The solution is powered by the Intel distribution of the OpenVINO Toolkit to run AI inferencing models on Intel Xeon scalable processors and Intel Movidius VPUs. With edge AI capabilities, the solution aims to redefine the outdoor smart parking experience in public areas across the globe.

Designed for a cloud-enabled world, the solution has four key components: an operator portal that hosts user information; a mobile application for end-user interface; a digital signage module to ensure safe and secured access; and a digital camera - all connected by the AWS cloud platform. This architecture helps end users easily locate available parking spaces in outdoor parking lots.

The solution, which does not require sensors, can cover thousands of parking spots. Some of the key features include offering users a personalized experience through the app, enabling reservation of parking spots and real-time occupancy tracking, and providing parking insights via an AI-enabled surveillance for operators through augmented video analytics.

The smart parking solution can be installed in parking areas in airports, stadiums, shopping malls and office campuses.

Amit Chadha, CEO & Managing Director, L&T Technology Services, said, *“Technology and engineering services have the potential to not only enable business benefits but also empower organizations to proactively enhance environmental, social and governance related pursuits. With the density of urban environments resulting in wastage of fuel that runs into the thousands of liters every day, such an intelligent solution can help overcome a myriad of issues faced by industry. Using technologies from a global technology leader like Intel, we look forward to further opportunities to introduce disruptive innovations for the larger benefit of humankind.”*

LTTS’ acclaimed smart campus framework [i-BEMS](#) is a state-of-the-art building management platform that helps to redefine the future of work by enabling continuous and interconnected intelligent systems based on cutting-edge digital technologies such as IoT, Machine Learning and Predictive Asset Management.

Jonathan Wood, Senior Director, Next Generation and Standards, Intel Corporation commented, *“This latest edge AI based parking innovation is a natural extension of LTTS’s product portfolio leveraging Intel technologies. Their use of Intel solutions, in the area of smart venues and buildings, further serves as a commitment to consistently introduce disruptive technologies to help Enterprise realize efficiencies from digital transformation.”*

TCS Launches Cloud-Based Intelligent Subscription Solution for Media Companies to Enhance Customer Experience and Increase Revenue

13 May 2021

Tata Consultancy Services (TCS), a leading global IT services, consulting and business solutions organization, has launched a cloud-based Intelligent Subscription solution leveraging SAP Business Technology Platform, to help the media and publishing industry transform customer experience and shift to subscription-based order-to-cash processes for physical and digital content.

The media and publishing industry has moved away from traditional one-off selling to a recurring revenue model based on consumption. Moreover, end consumers are looking for flexible ‘pay per use’ or ‘time-bound subscription’ options to enable ‘pay for value’, which has led enterprises to adopt customer-centric experience models that ensure long-term customer engagement.

TCS’ Intelligent Subscription solution addresses this need by leveraging artificial intelligence and

CIMdata PLM Industry Summary

machine learning to personalize content curation and offer recommendations based on user profiles, preferences, and past subscriptions. This helps enterprises sell digital experiences and adopt new subscription and pricing models. The single source platform for digital and physical content, enables enterprises to bundle their offerings to deliver better value to end consumers. The solution is part of SAP's industry cloud solutions for the media industry and can be adopted by enterprises across industries looking to set up new subscription or consumption-based business models on a single, automated platform.

The solution enables greater cross selling or up selling to consumers, resulting in enhanced revenue growth, and improved engagement, leading to greater customer retention. Additionally, it is designed to enable significantly faster time to market and reduce the total cost of ownership of legacy applications.

“TCS’ Intelligent Subscription solution leverages our contextual knowledge in the media and publishing industry and our deep expertise in evolving innovative business models, to help organizations reimagine their business, enhance customer experience and unlock continuous business value,” said **Akhilesh Tiwari, Global Head, Enterprise Application Services, TCS.**

Richard Whittington, Global Head, Media & Publishing, SAP SE, said, *“We are pleased to work with TCS on this industry cloud solution. SAP has a long history of business innovation and providing technology to the world’s leading media and publishing firms and will continue to support them with our industry cloud strategy. By leveraging the industry expertise, commitment to quality delivery, and customer focus, the teams at TCS and SAP are helping businesses make the transformational move to the Intelligent Enterprise.”*

TCS’ SAP-related services include design thinking, advisory, innovation consulting, implementation, and other digital support services. The company helps customers evaluate newer digital offerings such as SAP S/4HANA®, the SAP Customer Experience portfolio, SAP SuccessFactors® solutions, SAP Ariba® solutions, and SAP Business Technology Platform, and define their roadmap, architecture, and strategy. TCS’ innovation and demo centers in Ohio, Paris, Mumbai, and Tokyo, help customers gain a first-hand experience of SAP’s new products and global innovations through a digital transformation ecosystem.

SAP’s industry cloud helps customers in all industries to deploy specialized solutions enabling them to optimize, extend, and transform their core business processes. Industry cloud solutions are interoperable and extend SAP’s intelligent suite and business network. SAP’s open APIs, business services, and data and process models help customers to rapidly adopt these innovations and simplify their landscape.

Update available: ALLPLAN publishes project template for BIM-based platform design with ALLPLAN 2021

14 May 2021

As part of the German Federal Ministry of Transport and Digital Infrastructure initiative for more attractive railway stations, ALLPLAN has published an **updated project template for the application of the BIM methodology** in Deutsche Bahn projects. It is now also available to users of Allplan 2021, who can thus carry out their design projects in accordance with the group's BIM specifications and achieve a high level of data quality.

“Construction projects for major clients such as Deutsche Bahn demand strict adherence to specifications from the commissioned planners. Digital project templates make it possible to meet these specifications and gain more time for the actual task of construction. Thanks to the latest project

CIMdata PLM Industry Summary

template, our customers are able to improve their design quality and fulfil the specifications of Deutsche Bahn in the best possible way," says Robert Bäck, Head of Consulting at ALLPLAN.

The advantages are also confirmed by the users: *"We have been designing platforms with Allplan for many years. We are really excited about the new project template, as it makes data exchange easier and helps us to deliver the models in compliance with the BIM specifications of Deutsche Bahn,"* says Melissa Köhler, technical employee at FUCHS Engineering Office for Traffic Construction in Chemnitz, Germany.

Project template contains intelligent objects

About a year ago, ALLPLAN, the Munich-based provider of BIM solutions, together with DB Station & Service AG, had already transferred the content required for the platform design of small and medium-sized transport stations into a comprehensive project template. It complies with the specifications and requirements of Deutsche Bahn with regard to the data and models to be supplied during the design process. The template contains components and equipment in the form of intelligent objects that have all the necessary parameters and information:

- Catalogue of components in the form of assistants and library objects
- Adapted level of detail and floor plan representation
- References to relevant rule drawings
- Attribute favorites for the individual objects and installation types
- Evaluation with customized lists, reports and labeling images
- Compilation and derivation of planning documents
- IFC exchange profile for correct attribute assignment and transfer during export

Guide and webinar on the template project

The project template is continuously expanded and updated. In addition, a guide is available that explains the functionality as well as parameters and properties of the individual objects. In a recorded webinar, BIM expert Anke Niedermaier explains how the installation works, describes the basic concept, the workflow, how the individual components work and the different forms of evaluation, derivation and data transfer.

Uptake Fusion Cloud Datastore for OSIsoft PI Now Available on Microsoft Azure Marketplace

18 May 2021

Uptake, the leader in Industrial AI and Analytics, announced the availability of Uptake Fusion Cloud Datastore for OSIsoft PI on the Microsoft Azure Marketplace, an online store providing applications and services for use in Azure. In just three minutes, operators in process-intensive industries like chemicals, oil and gas, renewables, manufacturing, and mining can purchase Uptake Fusion from the Marketplace and install it directly into their enterprise tenant in Azure. Users are able to transfer all of their OSIsoft PI data — historical, instantaneous, and metadata — into the cloud for greater enterprise access and advanced analytics.

“For simply accessing their own data, users of on-premise historians incur a cost per tag. We’re able to solve that problem and empower operators to bypass the process of pre-modeling data, scaling the extraction of operational data to the cloud for valuable use cases like enterprise reporting, monitoring, and planning,” said Dr. Dave Shook, Chief Data Officer at Uptake. “Once OSIsoft PI data is liberated by Uptake Fusion, our customers have unfettered access to their own data in Azure. We’re propelling data

CIMdata PLM Industry Summary

scientists, engineers, and executives with the intelligence they need to make informed business decisions.”

Uptake Fusion establishes a connector with OSIsoft PI — and any SCADA or control system, historian, or IIoT sensor — to extract asset-produced data for long-term storage in Azure. All OSIsoft PI data is organized in Uptake Fusion exactly as it is in the PI Asset Framework (PI-AF), enabling users to aggregate and correlate all of their operational information without additional PI tags to derive further insights. An offline datastore secures the stream against loss, with built-in recovery features.

In addition, Uptake Fusion reduces the number of connections between data collection systems and the SaaS platforms operators already have in place, protecting critical underlying plant systems from cyber-threats. The consolidation of high volumes of data in Azure permits SCADA systems and historians to perform as originally intended for plant staff, securely scaling the demand for data by different internal and SaaS consumers.

Uptake Fusion also prepares data for the specific consumption requirements of different stakeholders in the enterprise Azure tenant. It provides data analysts and engineers with an open format for visualization, analytics, and orchestration, allowing them to use their preferred tools to derive data insights. Integrated with Microsoft Power BI, PowerApps, and Azure Time Series Insights, Uptake Fusion equips industrial companies with automated reporting for multiple high-value purposes.

The Uptake solution also expedites the deployment of advanced applications such as intelligent events, process optimization, forecasting, and AI/ML predictive analytics. One company — a top five super-major — is using Uptake Fusion to advance its global digital transformation initiative across renewables, upstream, midstream, and downstream. By extracting data from OSIsoft PI to Uptake Fusion, the company has standardized best practices for reporting, ML deployment, and integrated data from key systems for the development of digital twins

This announcement follows Uptake recently announcing its partnership with Wipro, a leading global information technology, consulting, and business process company, to provide advanced analytics for the heavy processing and energy industries. Uptake also recently acquired ShookIOT, a leader in cloud-native data integration and integrity, strengthening its capabilities to accelerate digital transformation for asset-intensive companies.