

Contents

<i>CIMdata News</i>	3
Autodesk to Acquire Upchain: Delivering cloud-based PLM and PDM – a CIMdata Highlight	3
CIMdata Announces eBook on Collaborative Research on the Benefits and Challenges of Cloud/SaaS PLM Adoption	3
<i>Acquisitions</i>	4
Autodesk to Acquire Upchain to Accelerate Product Development Data and Processes in the Cloud	4
Bentley Systems Announces Acquisition of Mobility Simulation Leader INRO	5
Cadence Acquires Pointwise to Expand System Analysis Offerings Addressing CFD Meshing for Aerospace Applications	7
Materialise Acquires Option to Buy Link3D	8
Microsoft accelerates industry cloud strategy for healthcare with the acquisition of Nuance	9
Siemens expands industry-leading IC verification portfolio through acquisition of OneSpin Solutions	11
<i>Company News</i>	11
Aras Announces Expansion of Subscription Offerings with Enterprise SaaS	11
Autodesk Awards Applied Software for Outstanding Efforts with Customers	13
CADENAS expands server infrastructure with North American site	13
Collaboration with Rendra AS on technological development for DX using BIM	14
COVID-19 has Sparked a New Wave of Innovation Across Consumer Industries, According to Accenture Research	15
Fujitsu Embarks on Partnership with Siemens Digital Industries Software Strengthening Global Competitiveness and Accelerating DX to Realize Smart, Sustainable Manufacturing	17
Guy Courtin Joins Tecsys as Vice President and Industry Principal for Retail	18
Hexagon's Manufacturing Intelligence division opens Certification Center in Montreal, Canada	18
Infor Promotes Becky Xie to Lead Greater China and Korea Region	19
New Blockchain brochure with numerous iPoint contributions	20
Restoration of Notre-Dame Cathedral in Paris Embraces Digital Technology, Building Information Modeling	20
Siemens and SAP Expand Partnership to Deliver Intelligent Service and Asset Lifecycle Management Solutions	21
The Revolution in Simulation Initiative Continues to Expand as Phoenix Integration Joins a Growing Alliance of Sponsors	22
Toyota Industries Corporation and Siemens cooperate on digital transformation for die casting	23
Velodyne and Ansys Team Up to Transform Autonomous Vehicle Safety	24
<i>Event News</i>	25
Aspen Technology Announces Keynote Panelists for OPTIMIZE™ 2021	25
A Virtual Conversation on the Hybrid Remote Workforce	26
<i>Financial News</i>	26
Infosys: Digital Differentiation and Large Deal Momentum Drive Industry-leading Growth in FY21	26
Invitation to presentation of Hexagon's Interim Report on 29 April	30
PTC to Announce Fiscal Q2'21 Results on Wednesday, April 28th, 2021	30
SAP SE will release its results for the first quarter of 2021 on Thursday, April 22	30
TCS Closes FY 21 on Strong Note: Looks at Growth and Transformation to Power the Future	30
Wipro Limited Announces Results for the Quarter and Year ended March 31, 2021 under IFRS	33

CIMdata PLM Industry Summary

Implementation Investments	37
Atos secures Bureau Veritas' information systems with latest-generation Security Operations Center	37
AVEVA And Petronas Strategically Partner to Deliver Digital Transformation	38
Bharat Petroleum Collaborates with Accenture to Digitally Transform Its Sales and Distribution Network	39
DB Schenker Innovates with Infor	40
Gavi Selects Accenture to Support Finance Operations for The Vaccine Alliance's COVAX Facility	40
H3C Semiconductor and Ansys Innovate Next-Generation Network Processor Chip for High-end Routing, 5G Backhaul, AI and Cybersecurity Applications	41
Malwee Group Selects Centric PLM as The Foundation of Their New Digital Architecture	42
MultiGreen Turns to Autodesk Construction Cloud to Build 40,000 Sustainable Housing Units	43
Shell selects Polarion software from Siemens to digitalize and streamline global capital project data	45
Stewart Milne Timber Systems Selects IFS To Optimize Offsite Manufacturing	46
TCS to Help Ericsson Digitally Transform its R&D Environment, Accelerate Development	47
Product News	47
Aurigo Software and Autodesk Enable Design Collaboration for Capital Planners and Construction Manager	47
Bentley Systems Brings Infrastructure Digital Twins to NVIDIA Omniverse	48
CENIT LAUNCHES 3DEXPERIENCE PLATFORM-SAP CLOUD INTEGRATION	49
CGTech Announces 3DLive™ GDML Interface for VERICUT® Software	51
Cloud Editions 21.2 Enables Organizations to Grow with OpenText	51
Elysium - Release Announcement of CADfeature 16.0 M3	54
Health and safety training goes 4D for HS2	54
Medidata Launches New Functionality to Enable Holistic Risk-Based Quality Management for Clinical Trials	55
New Version of Trimble Earthworks Grade Control Platform Includes Support for Soil Compactors	56
OpenText Announces New Content Services Platform to Power Modern Work in the Cloud	57
Oracle Helps Organizations Enhance the Employee Experience with Oracle Journeys	58
Release Announcement of ASFALIS EX8.3.4 – Elysium	60
Software-centric Automation Transforms Consumer-Packaged Goods and Logistics Operations	60

CIMdata News

Autodesk to Acquire Upchain: Delivering cloud-based PLM and PDM – a CIMdata Highlight

15 April 2021

Today, April 15, 2021, Autodesk announced their intent to acquire cloud-based product lifecycle management (PLM) and product data management (PDM) solution provider, Upchain. The acquisition provides Autodesk an established data collaboration platform upon which to support a decentralized product value chain. Upchain delivers a multi-tenant, cloud-native software-as-a-service (SaaS) architecture with rapid-deploy capability. CIMdata welcomes the acquisition and believes it will provide Autodesk customers improved capabilities to manage complex product systems across distributed teams of stakeholders.

Autodesk has indicated they will maintain Upchain's open approach to data, supporting integration not only with Autodesk solutions Inventor, AutoCAD, and Fusion 360, but also with other CAD systems used in the product manufacturing industry. Autodesk indicated that one of their first actions will be to integrate Upchain with Forge, Autodesk's cloud-based developer platform.

Mr. Andrew Anagnost, President and CEO of Autodesk stated, "The convergence of data and processes is transforming the industry. By integrating Upchain with our existing offerings, Autodesk customers will be able to easily move data without barriers and will be empowered to unlock and harness valuable insights that can translate to fresh ideas and business success."

"Comments by Autodesk on their analyst call announcing the acquisition suggest that customer demands for cloud-native PDM were increasing and acquiring Upchain was a great way to meet that demand," says Stan Przybylinski, CIMdata's Vice President. "It also clarifies Autodesk's digital thread support, focusing more on the engineering work in process than perhaps they were doing with Forge, their platform initiative."

The transaction is subject to customary closing conditions and is expected to close during Autodesk's second quarter of fiscal year 2022, ending July 31, 2021.

 [Click here to return to Contents](#)

CIMdata Announces eBook on Collaborative Research on the Benefits and Challenges of Cloud/SaaS PLM Adoption

15 April 2021

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces the publication of a new eBook that summarizes the results of a multi-sponsor collaborative research program focused on the business benefits and challenges offered by the adoption of a Software as a Service (SaaS) PLM delivery model. Partners in this research effort included Aras Corporation and three other leading PLM solution providers.

In many leading companies, legacy PLM implementations have often been installed on-site and frequently experience implementation delays due to complex installation requirements. Over time, heavy customizations can also be challenging to maintain and adapt to changing business requirements. In smaller companies, PLM is often ad-hoc, primarily using Microsoft Excel and shared file services in

CIMdata PLM Industry Summary

support of product development. For both, the product development processes are found lacking, unable to support the agility requirements of business today.

This collaborative research program focused on helping answer vital questions about industrial companies' on-going and planned Cloud/SaaS-related PLM efforts. The eBook highlights the issues faced by industrial companies looking to make this move and includes sponsor information about how they are addressing these issues, including customer vignettes and links to more information.

According to Mr. Stan Przybylinski, CIMdata's Vice President and leader of CIMdata's research program, "In our 2017 cloud study, about one-third of the participants believed they would move to the cloud in the next two years. If our respondents to this new survey are representative of the broader population, nearly 30% have already made the move and 86% of our respondents either already moved, plan to move in the near future, or have strongly investigated their options. This result agrees with our work with our industrial consulting clients and in our interactions with the leading PLM solution providers who claim a huge increase in interest and growing adoption. This is great news for the PLM Economy."

Adding to Mr. Przybylinski's comments, Mr. Mark Reisig, Aras' Vice President of Product Marketing, stated "We are pleased to have partnered with CIMdata on this important research. The results of the survey are aligned with what we are hearing from customers and have validated the considerable investments we have made in our cloud solutions. In particular, our Enterprise SaaS offering, which provides customers with the same customizable platform, applications, and functionality available as our on-premises deployment, supports the strategic direction of the survey respondents. We see large companies requiring unlimited customization to meet their complex requirements, while also wanting to realize the benefits of a SaaS subscription in the cloud."

To get your copy of the Aras eBook, please go to [Leveraging the Cloud for Global Market Success](#) on Aras.com.



[Click here to return to Contents](#)

Acquisitions

Autodesk to Acquire Upchain to Accelerate Product Development Data and Processes in the Cloud

15 April 2021

Autodesk, Inc. has announced it has signed a definitive agreement to acquire Upchain, a provider of instant-on, cloud-based product lifecycle management (PLM) and product data management (PDM) solutions. The acquisition positions Autodesk to deliver more value for engineers, manufacturers, suppliers and other product stakeholders by increasing collaboration across the decentralized product value chain, regardless of CAD system.

Upchain has created a unified cloud platform that eliminates the boundaries of traditional PLM and PDM technologies, helping manufacturers manage complexity across teams by putting data at the center of the product development process.

"Resilience and collaboration have never been more critical for manufacturers as they confront the increasing complexity of developing new products. We're committed to addressing those needs by offering the most robust end-to-end design and manufacturing platform in the cloud," said Andrew Anagnost, President and CEO of Autodesk. "The convergence of data and processes is transforming the

CIMdata PLM Industry Summary

industry. By integrating Upchain with our existing offerings, Autodesk customers will be able to easily move data without barriers and will be empowered to unlock and harness valuable insights that can translate to fresh ideas and business success.”

Autodesk will maintain Upchain’s open approach to data, supporting integration not only with solutions like Inventor, AutoCAD and Fusion 360, but also with other CAD systems commonly used in the manufacturing industry.

“The acquisition of Upchain is a big step toward meeting our customers where they are, removing the barriers to collaboration and bridging the gap between data management and process management technologies,” said Scott Reese, Executive Vice President of Product Development and Manufacturing Solutions at Autodesk. “Disruption has become a constant in the world of manufacturing. Being equipped with instant access to data across the product value chain gives companies the ability to remain agile and bring compelling products to market quickly and efficiently.”

Upchain serves a diversified customer base from across industries including automotive and aerospace, industrial machines, transportation, entertainment, and textiles and apparel.

“We’ve had a singular focus at Upchain to up-level cloud collaboration across the entire product lifecycle, changing the way that people work together so that everyone has access to the data they need, when they need it,” said John Laslavic, CEO and Founder of Upchain. “Autodesk shares our vision for radically simplifying how engineers and manufacturers across the entire value chain collaborate and bring a top-quality product to market faster. I look forward to seeing how Upchain and Autodesk, together, take that vision to the next level in the months and years to come.”

The transaction is subject to customary closing conditions and is expected to close during Autodesk’s second quarter of fiscal year 2022, ending July 31, 2021.

 [Click here to return to Contents](#)

Bentley Systems Announces Acquisition of Mobility Simulation Leader INRO

14 April 2021

Bentley Systems, Incorporated, the *infrastructure engineering software* company, announced the acquisition of INRO Software, a global leader in multimodal transportation planning, traffic simulation, and mobility visualization software. The acquisition expands Bentley’s capabilities in the important growth area of mobility digital twins, just as countries including the U.S. are poised to make a generational investment in infrastructure, and as transportation systems must evolve faster to accommodate both urbanization and carbon reduction goals, and the transition to electric and autonomous vehicles.

INRO, based in Montreal, Quebec, Canada, has for more than 40 years contributed to the advancement of mobility simulation and modeling for metropolitan, regional, and national transport and transit operators and planning agencies. Users of its multimodal simulation offerings include some of the world’s busiest transit systems and metros, such as Transport for London, Transport for New South Wales, the Washington State Department of Transportation, the Swedish Transport Administration Trafikverket, and the public transport system of São Paulo SPTrans.

INRO’s products include *Emme*, a multimodal transportation planning system for urban, regional, and national transportation forecasting; *Dynameq*, a vehicle-based traffic simulation platform for city-wide traffic planning; and *CityPhi*, a mobility visualization solution providing data visualization and visual

CIMdata PLM Industry Summary

analytics of large-scale mobility and geospatial datasets.

Combining the capabilities of INRO's advanced traffic and vehicle simulation with Bentley's passenger and pedestrian simulation and civil design software, including CUBE, Streetlytics, LEGION, and OpenRoads, places Bentley in a very strong position to deliver comprehensive mobility digital twins of multimodal transportation systems at urban, metropolitan, regional, and national scale.

Advancing Mobility Digital Twins

Urban planners are seeking to understand the ongoing impacts—on transportation system performance, reliability, and accessibility—of the new opportunities and challenges of private and shared mobility, the propensity for cycling or walking, connected autonomous vehicles, and potential congestion charging. With respect to their traditionally circumscribed use of transportation modeling tools in isolation and only on occasion, multiple advantages are now attainable through mobility digital twins, which can be continuously updated with as-operated engineering conditions and with observed traffic data. Mobility digital twins bring these functions together so that infrastructure planning and simulations can be continuously valuable throughout engineering, construction, and operations.

The pandemic experience reinforces the resilience value of sustaining “evergreen” planning and engineering modeling and simulation to maintain fitness for purpose during unanticipated eventualities. With the priority now on “building back better,” it is increasingly recognized that the most economical way to augment infrastructure capacity, while accomplishing the needed energy transitions toward climate sustainability, is to optimize the utilization, configuration, and life extension of existing mobility assets, while adding integrated and appealing public transit options.

This requirement now sets the stage for mobility digital twins that need to be multimodal, need detailed dynamic traffic assignment and agent-based methods for veracity, and need to scale up to systemwide and regionwide—uniquely hallmarks of INRO. As the leader in infrastructure digital twins, Bentley's iTwin platform can now bring together—with the best-validated aggregate and individual vehicle and pedestrian simulation—3D/4D continuous surveying and reality modeling, civil engineering and project delivery, and asset and network performance. Ultimately, the opportunity for digital cities is to save their constituents time in their day, while at the same time improving congestion and climate resilience, and safety.

“We are very pleased to welcome INRO to Bentley Systems,” said Robert Mankowski, senior vice president, digital cities, Bentley Systems. “Professor Michael Florian and his team led the research of advanced multimodal network modeling methods which helped establish state-of-the-art mobility simulation, and in this next generation his son Dan is leading its software future in our mobility digital twin advancement. With the addition of INRO and its world-class team, Bentley Systems can even better accelerate cities and regions in going digital to ‘build back better’!”

Dr. Michael Florian, founder of INRO, said, “Bentley is a recognized leader in transportation across the infrastructure lifecycle from planning and design to heavy civil construction and road network management. My colleagues and I are very excited to join Bentley and to help realize the vision shared by thousands of cities and urban regions throughout the world to improve their sustainability and quality of life.”



[Click here to return to Contents](#)

Cadence Acquires Pointwise to Expand System Analysis Offerings Addressing CFD Meshing for Aerospace Applications

15 April 2021

Cadence Design Systems, Inc announced that it has acquired Pointwise, Inc., a leader in mesh generation for computational fluid dynamics (CFD). The addition of Pointwise's technologies and experienced team supports the Cadence® Intelligent System Design™ strategy and further broadens its system analysis portfolio, complementing the recently acquired NUMECA CFD technology. Together, these acquisitions will enable advanced CFD solutions where accuracy, reliability, predictability and performance are paramount for high-fidelity characterization of fluids, such as air flowing over an airplane.

Pointwise's mesh generation technology addresses the high-growth pre-processing CFD market sub-segment. The acquisition builds on the recent NUMECA acquisition and Cadence's innovative multiphysics products including the Clarity™ 3D Solver for electromagnetic (EM) simulation, the Clarity 3D Transient Solver for finite difference time domain (FDTD) system-level EM simulation and the Celsius™ Thermal Solver for electrothermal co-simulation.

Pointwise's technology adds world-class mesh generation and pre-processing capabilities that read data from all of the leading CAD formats and export data to over 40 CAE formats. Pointwise's core competency in robust grid generation squarely addresses the aerospace industry's demand for high-fidelity discretization of aircraft geometries. Pointwise's technology creates multiple mesh types to provide the level of control needed to ensure converged and accurate CFD results. In addition to automation and ease of use being paramount for the widespread adoption of CFD, it is imperative to generate sophisticated meshes that adhere to stringent accuracy requirements. Pointwise's proven technologies are used by leading organizations such as Hermeus, senseFly and ONERA to enable purpose-built mesh for applications including drag prediction and internal flows through exhaust manifolds.

“Cadence's computational software expertise and expanding multiphysics portfolio are accelerating digital wind tunnel experimentation for the aerospace industry,” said Tom Beckley, senior vice president and general manager of the Custom IC & PCB Group at Cadence. “The acquisition of Pointwise's proven CFD meshing technology catapults Cadence into a leadership position by addressing critical complexities in the analysis workflow, giving engineering teams rapid insight, predictability and high accuracy of their system design well before physical production.”

“Pointwise is dedicated to delivering industry-leading mesh generation capabilities,” said John Chawner, president of Pointwise. “We are very excited to enhance Cadence's CFD strategy with our deep meshing expertise and talented team. The combined technologies of Cadence, NUMECA and Pointwise significantly expand Cadence's CFD and electromechanical analysis solutions, customer base and engineering talent.”

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

 [Click here to return to Contents](#)

Materialise Acquires Option to Buy Link3D

13 April 2021

Materialise, a global leader in 3D printing solutions, has acquired an option to buy Link3D Inc., an additive workflow and manufacturing execution systems (MES) company. The acquisition will extend Materialise's ability to help companies gain control of their manufacturing floor as they scale up their additive manufacturing (AM) capability into volume production. In addition, the acquisition will allow Materialise to accelerate its roadmap to offer cloud-based access to its integrated software platform. It also is expected to broaden Materialise's industrial customer base across North America, Europe and Asia Pacific, and offer Link3D customers a seamless connection to Materialise's Magics 3D print suite.

"By joining forces with Link3D, we expect to be even better positioned to provide our customers with a solution to plan, manage and optimize their AM operations",

said Fried Vancraen, CEO of Materialise. "This agreement exploits the synergy between the two companies and will help us to remove some of the complexity associated with scaling 3D printing as part of a connected, industrial manufacturing process."

Link3D offers additive MES workflow software to help companies scale their digital manufacturing operations across complex supply chains and IT environments. Its MES and workflow solutions help bolster overall adoption of AM for series production in major manufacturing industries, including aerospace, automotive, consumer, medical and energy.

Streamlining Additive Manufacturing Workflows

3D printing continues to transform the factory floor as companies increasingly turn to 3D printing for large-scale production. However, as these companies scale their 3D printing processes and integrate these operations with existing production infrastructures, they are confronted with increasingly diverse, complex and distributed manufacturing environments. Materialise and Link3D each offer MES-solutions that help these organizations gain control over their manufacturing floor. The synergy between the two companies will allow Materialise to help customers scale their AM capability across complex supply chains with greater operational excellence.

"At Link3D, it has always been our mission to help companies unlock the full potential of AM into their existing supply chains",

Link3D CEO Shane Fox said. "By teaming up with Materialise, a global pioneer of the 3D printing industry, we expect to be able to offer our combined user base access to a robust and comprehensive manufacturing suite of solutions, enabling them to take Additive Manufacturing to the next level", Link3D Co-Founder and CTO Vishal Singh said.

Software Platform Strategy

The potential acquisition is also expected to accelerate Materialise's platform strategy to offer companies cloud-based access to its unified software platform. While some companies had already begun their digitization journey before the pandemic hit, COVID-19 has accelerated this process and emphasized the benefits of pursuing digital transformation opportunities.

Materialise has outlined an ambitious roadmap to evolve its entire software suite to a SaaS model, offering its customers cloud-based access to a complete platform of software tools to manage and control the 3D printing process more efficiently. This cloud-based software platform will provide customers across multiple industries, from aerospace and automotive to point-of-care 3D printing, seamless and efficient access to Materialise's complete and integrated 3D printing software suite. This

CIMdata PLM Industry Summary

platform will also allow customers to benefit from the latest software innovations and enable them to scale their operations based on their current needs.

“Materialise and Link3D share a commitment to support companies as they build cost-efficient and productive 3D printing factories”,

said Stefaan Motte, VP and General Manager of Materialise Software. “We expect that joining forces with Link3D’s talented team will help us to advance our roadmap to offer customers more flexible and reliable access to a cloud-based, unified software platform.”

Materialise has recently announced several cloud-based software solutions, including Magics Storefont, a full e-commerce and CRM solution in one platform; and the Process Tuner, an intuitive online platform that helps speed up the process tuning that is required for mass-manufacturing 3D printed parts.

Link3D provides a suite of mission-critical applications for customers in the aerospace, automotive, medical and other competitive and highly regulated industries. These customers are expected to benefit from seamless access to Materialise’s Magics 3D print suite for AM part preparation, automation and production optimization, but also broad 3D printer connectivity and automated workflows.

Link3D will continue to be managed by its existing management team. Materialise expects to exercise the option before the end of the year.

 [Click here to return to Contents](#)

Microsoft accelerates industry cloud strategy for healthcare with the acquisition of Nuance

12 April 2021

Microsoft Corp and Nuance Communications, Inc announced they have entered into a definitive agreement under which Microsoft will acquire Nuance for \$56.00 per share, implying a 23% premium to the closing price of Nuance on Friday, April 9, in an all-cash transaction valued at \$19.7 billion, inclusive of Nuance’s net debt. Nuance is a trusted cloud and AI software leader representing decades of accumulated healthcare and enterprise AI experience. Mark Benjamin will remain CEO of Nuance, reporting to Scott Guthrie, executive vice president of Cloud & AI at Microsoft. The transaction is intended to close this calendar year.

Microsoft has accelerated its efforts to provide industry-specific cloud offerings to support customers and partners as they respond to disruption and new opportunities. These efforts include the Microsoft Cloud for Healthcare, introduced in 2020, which aims to address the comprehensive needs of the rapidly transforming and growing healthcare industry. Today’s acquisition announcement represents the latest step in Microsoft’s industry-specific cloud strategy.

Nuance is a pioneer and a leading provider of conversational AI and cloud-based ambient clinical intelligence for healthcare providers. Nuance’s products include the Dragon Ambient eXperience, Dragon Medical One and PowerScribe One for radiology reporting, all leading clinical speech recognition SaaS offerings built on Microsoft Azure. Nuance’s solutions work seamlessly with core healthcare systems, including longstanding relationships with Electronic Health Records (EHRs), to alleviate the burden of clinical documentation and empower providers to deliver better patient experiences. Nuance solutions are currently used by more than 55% of physicians and 75% of radiologists in the U.S., and used in 77% of U.S. hospitals. Nuance’s Healthcare Cloud revenue experienced 37% year-over-year growth in Nuance’s fiscal year 2020 (ended September 2020).

Microsoft’s acquisition of Nuance builds upon the successful existing partnership between the

CIMdata PLM Industry Summary

companies that was announced in 2019. By augmenting the Microsoft Cloud for Healthcare with Nuance's solutions, as well as the benefit of Nuance's expertise and relationships with EHR systems providers, Microsoft will be better able to empower healthcare providers through the power of ambient clinical intelligence and other Microsoft cloud services. The acquisition will double Microsoft's total addressable market (TAM) in the healthcare provider space, bringing the company's TAM in healthcare to nearly \$500 billion. Nuance and Microsoft will deepen their existing commitments to the extended partner ecosystem, as well as the highest standards of data privacy, security and compliance.

"Nuance provides the AI layer at the healthcare point of delivery and is a pioneer in the real-world application of enterprise AI," said Satya Nadella, CEO, Microsoft. "AI is technology's most important priority, and healthcare is its most urgent application. Together, with our partner ecosystem, we will put advanced AI solutions into the hands of professionals everywhere to drive better decision-making and create more meaningful connections, as we accelerate growth of Microsoft Cloud in Healthcare and Nuance."

Beyond healthcare, Nuance provides AI expertise and customer engagement solutions across Interactive Voice Response (IVR), virtual assistants, and digital and biometric solutions to companies around the world across all industries. This expertise will come together with the breadth and depth of Microsoft's cloud, including Azure, Teams, and Dynamics 365, to deliver next-generation customer engagement and security solutions.

"Over the past three years, Nuance has streamlined its portfolio to focus on the healthcare and enterprise AI segments, where there has been accelerated demand for advanced conversational AI and ambient solutions," said Mark Benjamin, CEO, Nuance. "To seize this opportunity, we need the right platform to bring focus and global scale to our customers and partners to enable more personal, affordable and effective connections to people and care. The path forward is clearly with Microsoft — who brings intelligent cloud-based services at scale and who shares our passion for the ways technology can make a difference. At the same time, this combination offers a critical opportunity to deliver meaningful and certain value to our shareholders who have driven and supported us on this journey."

The transaction has been unanimously approved by the Boards of Directors of both Nuance and Microsoft. The deal is intended to close by the end of this calendar year and is subject to approval by Nuance's shareholders, the satisfaction of certain regulatory approvals, and other customary closing conditions.

Upon closing, Microsoft expects Nuance's financials to be reported as part of Microsoft's Intelligent Cloud segment. Microsoft expects the acquisition to be minimally dilutive (less than 1 percent) in fiscal year 2022 and to be accretive in fiscal year 2023 to non-GAAP earnings per share, based on the expected close timeframe. Non-GAAP excludes expected impact of purchase accounting adjustments, as well as integration and transaction-related expenses. The acquisition will not impact the completion of its existing share repurchase authorization.

Nadella, Benjamin, Guthrie and Microsoft Chief Financial Officer Amy Hood will host a webcast for investors and media on April 12, 2021, at 8 a.m. Pacific Time/11 a.m. Eastern Time regarding this transaction.

Goldman Sachs & Co. LLC is acting as exclusive financial advisor to Microsoft, while Simpson Thacher & Bartlett LLP is acting as its legal advisor. Evercore is acting as exclusive financial advisor to Nuance, while Paul, Weiss, Rifkind, Wharton & Garrison LLP is acting as its legal advisor.



[Click here to return to Contents](#)

Siemens expands industry-leading IC verification portfolio through acquisition of OneSpin Solutions

15 April 2021

Siemens Digital Industries Software has signed an agreement with London-based Azini Capital to acquire OneSpin Solutions, a leading provider of formal verification software that helps ensure integrated circuit (IC) integrity and enables functionally correct, safe, trustworthy and secure IC designs. Headquartered in Munich, OneSpin Solutions has developed a strong, fast-growing business by providing a broad portfolio of formal applications (“apps”) for assuring IC designs operate as intended under the most adverse environmental conditions across key growth markets.

Automated apps are increasingly critical to successful formal verification flows. Formal apps complement traditional formal techniques and help democratize formal verification processes by automating and dramatically streamlining common verification tasks.

“With the addition of OneSpin Solutions, we can now offer our customers industry-leading know-how, exceptional products and a broad portfolio of automated formal apps for key use-cases, including trust and security, safety, RISC-V and FPGA applications,” said Ravi Subramanian, Ph.D., senior vice president, IC Verification, Siemens Digital Industries Software. “The unique combination of Siemens' existing formal products, together with OneSpin Solutions' domain expertise, outstanding app portfolio and ‘apps-first’ mindset, can enable Siemens to provide customers with increased efficiency and confidence across the complete verification platform (simulation, formal, emulation and prototyping), leading to faster verification, automation and debug.”

Siemens plans to add OneSpin Solutions technology to the Xcelerator™ portfolio as part of its industry-leading suite of electronic design automation (EDA) IC verification offerings.

“OneSpin Solutions has been dedicated to solving the most difficult verification challenges to assure IC integrity. Our unique technology and focus have fueled our record growth across a number of domains including 5G, automotive, datacenter, IoT, and aerospace/defense,” said Raik Brinkmann, president and CEO at OneSpin Solutions. “Being part of Siemens will allow us to accelerate technology development and deliver our much-needed solutions to a broader user base with the goal of becoming the market’s leading formal verification provider.”

Siemens’ acquisition of OneSpin Solutions is expected to close in the second quarter of calendar year 2021. Terms of the transaction are not disclosed.

 [Click here to return to Contents](#)

Company News

Aras Announces Expansion of Subscription Offerings with Enterprise SaaS

14 April 2021

Aras, the only resilient platform provider for digital industrial applications, announced an expansion of available subscription offerings to support the cloud requirements of the largest global companies. The powerful new SaaS offering, called Enterprise Edition, now complements the existing Standard Edition (formerly Premier) and Free Edition. Enterprise Edition delivers full customization capabilities in an all-inclusive SaaS format with DevOps processes specifically designed to meet the mission-critical demands of the most complex scenarios. The new subscription offer from Aras provides unmatched

CIMdata PLM Industry Summary

cloud capabilities for the largest enterprise deployments.

Until now, large global organizations have been forced to make unacceptable trade-offs when considering SaaS capabilities for engineering and manufacturing. Choose a cloud-only SaaS provider with limited functionality, customization restrictions, and few integration connector options, or purchase an outdated legacy system with no path forward.

To make the cloud work for mission-critical workloads at major corporations, Aras has created a true enterprise SaaS offering that includes a unique set of benefits:

- Complete application functionality – Entire suite from global product development, systems engineering & simulation management to manufacturing process definition, quality and Digital Twins
- Full integration capabilities – Direct connectors to MCAD, ECAD, CAE, MBSE, ALM, ERP, PDM and more
- Total solution customization – All the flexibility of the Aras low-code platform without limitations
- Real DevOps processes – End-to-end, multi-environment CI/CD to support global Agile/SAFe teams
- Secure data isolation – Superior IP protection for supply chain collaboration
- Upgrade control – Customer scheduled updates with customizations contractually guaranteed to work

“The largest manufacturers have shown interest in moving some key product development processes to the cloud,” said Jeff Hojlo, Research Vice President, Industry Ecosystems & Product Innovation Strategies at IDC. “More complex supply chains, increased customer and partner-driven designs, and the demand for more customized local products drive the need to collaborate with a diverse global team. Cloud accelerates this ability and provides a flexible environment in which to evolve the product development process and overall business.”

Enterprise SaaS from Aras enables large companies to fast-track cloud modernization and replacement of legacy PDM systems. Alternately, if full replacement of existing on-premise legacy is not the priority, the flexibility and open connectivity of Aras enable cloud platform overlay scenarios for faster digitalization of strategic processes without the disruption of legacy replacement. For existing Aras subscribers running Aras Innovator in their own data centers, the move to SaaS is even easier.

In addition to the creation of the new, all-inclusive enterprise SaaS offering, Aras is providing flexible options for customers that want to use their own cloud subscription or perform their own infrastructure management. Aras has made Aras DevOps and Aras Managed Services available as add-ons to the Standard Edition subscription.

“Our commitment to resilience guarantees that cloud technology advancements will always be seamless for our customers,” said Peter Schroer, Founder and CEO of Aras. “Our objective from day one has been to provide a future-proof platform that adapts to technology advancements so our subscribers can seamlessly move their unique processes forward to realize the benefits of digitalization without incompatibilities or upgrade obstacles.”

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

Autodesk Awards Applied Software for Outstanding Efforts with Customers

31 March 2021

Applied Software Technology Inc., a leading systems integrator for the architecture, engineering, construction, and manufacturing industries, has received two Autodesk awards for Autodesk partners located in North and South America.

The first award went to Applied Software Applications Developer Carlo Licea, who received the **Outstanding Professional Services** individual award. During the awards ceremony, Ken Manoff, Autodesk Senior Director of North American Partner Management, explained that the award is “about the ability to deliver and implement a customer’s desired outcomes, workflows and capabilities and complex customer solutions.” He added that the award recognizes “efforts focused on increasing customer capabilities leading to great outcomes.” A key component of the award is customer collaboration.

Carlo was recognized for his work on a multi-phase project, which challenged the limitations of Autodesk Forge. Mr. Manoff explained that Carlo pushed the envelope with the Forge development team to find a way to meet the customer’s needs. Through active collaboration, Carlo came up with a solution that precisely aligned to the customer’s desired outcomes.

The Applied Software Marketing Team garnered the **Marketing Innovation Award** for the Americas. Mr. Manoff explained that Applied Software delivers innovative customer experiences and creatively engages customers with modern, customer-focused digital marketing approaches. The award recognizes that Applied Software has established its staff as industry experts and thought leaders.

“We acknowledge the entire Applied Software family in the achievement of these awards,” said Richard Burroughs, President. “Applied Software services and customer engagement opportunities reflect the commitment to accelerate our clients’ success by providing process and technology solutions that enable their teams to be more efficient and effective.”

 [Click here to return to Contents](#)

CADENAS expands server infrastructure with North American site

13 April 2021

CADENAS GmbH, a global provider of digital 3D CAD and BIM product catalogs, is expanding their server infrastructure for the provision of their IT services. The new server in Canada further improves the user experience on customer websites and download portals. This also optimized latency and expanded bandwidth. These effects are particularly noticeable for end customers in the U.S., Canada and South America, with faster 3D previews and shortened download times for CAD and BIM product data.

Faster 3D previews and shortened download times for CAD models

eCATALOGsolutions technology enables engineers to download 3D CAD models from the CADENAS servers. The digital component is generated natively, in real time and in formats engineers and architects prefer. This enables users to configure trillions of potential CAD model variations in the provided CAD and BIM manufacturer catalogs and receive CAD and BIM models for immediate use. The improved server speed accelerates the entire process by enabling the CAD system on CADENAS servers to process data faster.

Geographic redundancy heightens security, and scalable server infrastructure improves performance

The new server platform is easily scalable and highly reliable. It also achieves additional security through mirroring (geographic redundancy) of CADENAS data centers. CADENAS protects customers against failure of a single data center. "When selecting the North American location for our new data center, it was important for us to ensure a high level of data protection as well as state-of-the-art technology and hardware for the operation of a 'private cloud'," explains Ralf Humpfer, Director of IT at CADENAS GmbH. "We were able to quickly and securely connect the new site to our existing network thanks to our experience in operating international hosting infrastructures and the great team performance. We can thus react very quickly to customer needs and any performance bottlenecks due to the good scaling options."

Doug Korneffel, CTO of the North American subsidiary CADENAS PARTsolutions, LLC., also sees the new server location as a great benefit for customers: "At CADENAS we take customer experience seriously. We understand fast download speeds and security are important to our customers and their end users. The new North American servers allow our customers to provide the highest quality CAD data instantly while ensuring the security of their intellectual property."



[Click here to return to Contents](#)

Collaboration with Rendra AS on technological development for DX using BIM

9 April 2021

Takenaka Corporation (President : Masato Sasaki) is entering into a technological development collaboration arrangement with Rendra AS (Managing Director: Ole Kristian Kvarsvik, referred to below as Rendra) for the purpose of further accelerating digital transformation using BIM*¹.

- *1BIM : Abbreviation for Building Information Modeling. Adding data such as costs, finishes, and management information to a 3D digital model of a building created on a PC, and using the information in every process from the design and construction of a building to its maintenance and management.

To increase productivity at construction sites and to enhance the attractiveness of the construction industry, we have begun to implement drastic reforms "advanced construction integration" in our business processes. One of the key initiatives is the digital transformation (DX) using BIM. As the core of these activities, we are developing "Open BIM," which links design data created with a variety of tools, and we will accelerate and broaden these activities further by promoting the StreamBIM-centered technological development.

"StreamBIM" is a BIM cloud platform that provides document and workflow management based on BIM models. It enables users to view BIM models on a variety of devices, including PCs, smart phones, and tablets as well as manage a variety of document information, including 2D drawings. In addition, by leveraging the information, it enables to facilitate and visualize the communication among all parties involved, from the design and construction stages to the facility management stages. We have already applied StreamBIM at more than 50 construction sites.

From here on, to further strengthen the link between "StreamBIM" and other solutions, both companies will continue on technological development. First, we will work to further improve the collaboration

CIMdata PLM Industry Summary

functions via BCF files^{*2} with Solibri^{*3} (Solibri, Inc), which we currently use as the primary tool for Open BIM, to quickly resolve issues on a variety of devices. Furthermore, through technical development, we will promote integration with various solutions such as the BIM data management solution "dRofus"^{*4} (dRofus Pty Ltd) and the 360° image management solution "HoloBuilder"^{*5} (HoloBuilder, Inc) to expand the use of data associated with BIM models throughout the project.

- *2BCF : Abbreviation for BIM Collaboration Format. It is a format” that simplifies the communication between IFC file users.” Developed as a unified format for adding text comments and screenshots on the IFC model layers.
- *3Solibri : A solution that enables quality assurance by importing and displaying IFC models from design, structural, and MEP main BIM applications, and performing interference checks, consistency checks, and spatial analysis. It also performs automatic checks by using rule sets.
- *4dRofus : A cloud-based data management solution that provides access to building information throughout the building lifecycle, enabling collaboration with BIM models.
- *5HoloBuilder : A cloud-based service for organizing and sharing 360° photos taken at construction sites

 [Click here to return to Contents](#)

COVID-19 has Sparked a New Wave of Innovation Across Consumer Industries, According to Accenture Research

12 April 2021

Successful consumer-facing companies are repurposing physical locations, exploring new business models, and rapidly adopting advanced analytics and other disruptive technologies to find new sources of growth

Successful consumer-facing companies are repurposing physical locations, exploring new business models, and rapidly adopting advanced analytics and other disruptive technologies to find new sources of growth.

The COVID-19 pandemic has changed the way people live, work and socialize, accelerating demand for innovation, as retailers, consumer goods, and travel companies shift from reacting to the crisis to reinventing products and services, according to findings of a new global survey from Accenture. After a year of lockdowns, 95% of survey respondents said they made at least one change to their lifestyle that they expect will be permanent. Working from home, changing travel patterns, and a growing desire to shop locally are challenging industries to fundamentally rethink how they cater to the pandemic-adapted consumer. The latest survey of more than 9,650 people in 19 countries supports Accenture’s previous findings that many changes in behavior will likely be long-term.

“The ripple effects of the pandemic will be felt for some time and serve as a powerful illustration of the need for consumer-facing companies to be agile, resilient, and responsive to change,” said Oliver Wright, senior managing director and head of Accenture’s global consumer goods industry group. “Born out of disaster and necessity comes opportunity; the pandemic has sparked a new wave of innovation. As companies fundamentally rethink ways of doing business that deliver growth, many are using advanced analytical capabilities to spot, respond, and target changing consumption trends. For instance, British beer company, Brewdog, responded with agility and creativity throughout the crisis —shifting to produce hand sanitizer, creating virtual bars, setting up the Brewdog Drive-Thru, and repurposing physical locations to create co-working space with Desk Dog.”

CIMdata PLM Industry Summary

COVID-19 has led to compressed transformation, with companies simultaneously transforming multiple parts of the enterprise and reskilling people in what previously would have been longer-term step-by-step programs. Many consumer-facing companies have re-platformed their businesses in the cloud, addressed cost pressures, and continued to build resilience and security, putting the infrastructure in place to enable innovation and position them for future success.

Dawn of the “third space”

The pandemic forced a rapid shift to employees working from home, with many expressing that they want flexibility in how and where they work moving forward. More than three-quarters (79%) of respondents said they would like to occasionally work from a “third space” — a location other than their home or place of employment — and more than half said they would be willing to pay up to US\$100 per month out of their own pockets to work from a café, bar, hotel, or retailer with a dedicated space. This highlights a potential opportunity to grow revenue for the hospitality and retail industries.

The desire to work from a “third space” is accompanied by a shift in attitudes towards business travel. Half (46%) of respondents said they have no business travel plans post-pandemic, or they intend to cut previous business travel by half. How long this view will hold firm remains to be seen, but the current outlook indicates that the return to travel will resume principally within the leisure market, pushing the industry to adapt and become even more efficient to make up for lost income.

“The pandemic has forced ‘creative pragmatism’, especially for travel and hospitality firms grappling to find additional revenue streams during the crisis,” said Emily Weiss, managing director and head of Accenture’s global travel industry group. “Some hotels turned rooms into pop-up restaurants while others experimented with offering temporary office space to customers seeking a ‘third space’ to work. While there has been experimentation with innovation in select pockets, companies need to scale these new services and address travelers’ renewed focus on health and safety, for example, by using the cloud to help enable fully contactless interactions.”

Shifts in consumer habits are here to stay

Not only do people think some of their work habits and travel plans have likely permanently changed, many also think their shopping habits have evolved for the long haul. The latest research supports Accenture’s previously released findings that the dramatic rise in e-commerce is likely to remain or accelerate further. For instance, the proportion of online purchases for products such as food, home décor, fashion, and luxury goods by previously infrequent e-commerce users — defined as those who used online channels for less than 25% of purchases prior to the outbreak — has increased 343% since the outbreak.

Jill Standish, senior managing director and head of Accenture’s global retail industry group said, “Leading retailers were quick to adapt to the surge in e-commerce and are using technology to serve customers in new ways. Many adopted disruptive technologies such as augmented reality to recreate the physical store experience and help shoppers better visualize a room of furniture or an outfit, while others repurposed closed stores into local fulfillment centers with picking and packing technology. Even in a post-pandemic world, companies will need to satisfy consumers’ appetite for online shopping with fast delivery and get more intentional about the investments they will make in their people, supply chains, physical stores, and digital channels to be well-positioned to drive growth.”

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

Fujitsu Embarks on Partnership with Siemens Digital Industries Software Strengthening Global Competitiveness and Accelerating DX to Realize Smart, Sustainable Manufacturing

12 April 2021

Fujitsu today announced an agreement to collaborate with Siemens Digital Industries Software to enhance competitiveness for its customers and strengthen and accelerate Digital Transformation (DX) in the manufacturing industry beginning with the Japanese market.

Through this collaboration, Fujitsu will initially resell industry-specific solutions from Siemens' Xcelerator portfolio in the Japanese market, including Siemens' Product Lifecycle Management System "Teamcenter" and Manufacturing Operation Management System "Opcenter" while providing solutions that draw on these capabilities in combination with Fujitsu's brand of manufacturing solutions and services, COLMINA. With the technical support of Siemens, Fujitsu is additionally developing 3D-BOP functions that seamlessly link design and assembly processes to shorten time to market and improve productivity and quality.

Going forward, Fujitsu will begin offering 3D-BOP functions to the Japanese market in July 2021. Based on the results achieved in the initial roll-out in Japan, Fujitsu will strengthen its global service provision and maintenance structure, and in April 2022, plans to expand service offering to Europe, North America, and Asia.

Facing increasingly fierce global competition in the manufacturing industry, many companies feel growing pressure to streamline operations, boost competitiveness, and find ways to contribute to international sustainability initiatives like the UN's Sustainable Development Goals (SDGs). To this end, many have proactively promoted the use of digital technologies. In many cases, however, data used in individual processes like design, production engineering, and manufacturing is still managed separately, and because systems aren't interconnected this data isn't fully utilized. This in turn hinders progress toward more sustainable, efficient practices in manufacturing. To overcome these challenges and realize smart manufacturing that takes sustainability into account while remaining resistant to changes in the global business environment, companies must build the capacity to quickly introduce integrated solutions that seamlessly link planning, design, production preparation, and production processes.

Through this collaboration, Fujitsu aims to build the global capabilities needed to respond quickly to market changes and to support its customers' competitiveness in the manufacturing industry, as well as contribute to the fulfillment of the SDGs through the acceleration of DX initiatives. Fujitsu aims to achieve this by seamlessly linking manufacturing information that is managed individually at each site and process on a global basis, using Siemens' globally recognized solutions for the manufacturing industry. Fujitsu will also leverage the know-how and expertise it has cultivated over its years of business development and problem-solving in the manufacturing space and its track record in implementing CPS (Cyber Physical System), which represents a combination of physical and computational elements in the manufacturing area.

Fujitsu will continue to support Digital Transformation (DX) in the manufacturing industry in fulfillment of its mission for its manufacturing brand, COLMINA: "Bringing innovation to manufacturing through the delivery of services that are global, open, and rapid that help to realize DX." Fujitsu's commitment to this mission for its COLMINA business brand will ultimately allow for the creation of new value, enhance competitiveness in the manufacturing industry, and support the realization of the Sustainable Development Goals (SDGs) for the entire society.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

Guy Courtin Joins Tecsys as Vice President and Industry Principal for Retail

14 April 2021

Tecsys Inc, an industry-leading supply chain management software company, is delighted to announce the appointment of Guy Courtin as vice president and industry principal for Retail. In this new role, Courtin will help steer Tecsys' retail go-to-market strategy and support the organization's retail sector momentum. This appointment builds on Tecsys' expanding retail footprint; the company acquired OrderDynamics in 2018 and has been progressively advancing its unified commerce platform for omnichannel retailers.

Courtin is a seasoned retail supply chain expert with decades of experience in the technology and supply chain space. Prior to joining Tecsys, Courtin held leadership roles at 6 River Systems (a Shopify company), Infor Retail and i2 Technologies (now Blue Yonder). He has likewise served as industry analyst at Constellation Research, SCM World (Now Gartner) and Forrester Research.

"Guy is a highly respected voice in the retail supply chain space who understands the effects of digital disruption and the urgent need to transform for converging markets," says Bill King, chief revenue officer at Tecsys. "His passion for retail will be felt by colleagues and customers alike, and we are thrilled to add him to our deep bench of the best and brightest supply chain thinkers."

The retail industry has undergone remarkable upheaval that began before the events of 2020, which was then punctuated by a pandemic that accelerated digital commerce adoption. With a combination of inventory orchestration via order management paired with an execution layer that takes into account all nodes of inventory, Tecsys is well-positioned to address today's needs and prepare companies for tomorrow's unknowns.

"At a time when the digital consumer has turned the power paradigm upside down, Tecsys has a unique opportunity to help retailers and brands become nimbler with their inventory, strengthen their fulfillment capabilities and improve their customer service levels," says Courtin. "I look forward to building out strategies around these foundational elements; to demonstrate how we are able to meet these needs and prepare for tomorrow's unknowns; to work with our existing customers, prospects, pundits, partners and our ecosystem to usher in this next chapter in retail."

Courtin holds an MBA in Management from the Olin Graduate School of Business, a master's in International Relations from Loyola University Chicago and a bachelor's degree in Political Science.

 [Click here to return to Contents](#)

Hexagon's Manufacturing Intelligence division opens Certification Center in Montreal, Canada

13 April 2021

Hexagon's Manufacturing Intelligence division announced the opening of a dedicated Hexagon certification center in Montreal, Canada, in cooperation with its strategic partner Amrikart Ultraprecision. The new facility will be situated in Amrikart's Technology Center located in the greater Montreal area at 3605 Rue Isabelle, Brossard, QC. This location will serve as a nationwide Leica Absolute Tracker calibration laboratory for servicing new or pre-owned laser trackers. The certification laboratory is supported by Amrikart's highly experienced, Hexagon-trained service engineers. Hexagon's calibration process ensures the equipment remains in top condition to minimize downtime and maintain accurate measurement results throughout the lifetime of a laser tracker. Amrikart develops

CIMdata PLM Industry Summary

and integrates innovative, user-friendly metrology solutions for advanced manufacturing and automation utilizing Hexagon technologies to build confidence in product quality.

“It is a privilege to partner with Hexagon’s Manufacturing Intelligence division, a world leader in high precision metrology solutions. The Canadian manufacturing industry is increasingly exploiting new generation technologies such as Hexagon’s Leica Absolute Tracker systems serving as critical components in production chains across the country. The new dedicated Canadian certification center will ensure reliable, countrywide support and improve the availability of 3D metrology solutions. We are thrilled and proud to leverage 30 years of experience as users and integrators of laser tracker technology to launch a certification center supporting our current and future customers,” said Jeremy Arpin-Pont, General Manager of Amrikart Ultraprecision.

“Hexagon is extremely pleased to expand our support for Canadian customers in the best and most efficient way possible. We have a great partner in Amrikart Ultraprecision, master users of Leica laser tracker technologies for many years. It only made sense to partner with Amrikart to open a Hexagon Absolute Tracker calibration lab in support of our large installed base across Canada. The new lab eliminates the need to ship systems across the border for certification and calibrations,” states David Hill, Commercial Operations Manager – Canada, Hexagon’s Manufacturing Intelligence division.

 [Click here to return to Contents](#)

Infor Promotes Becky Xie to Lead Greater China and Korea Region

13 April 2021

Infor, the industry cloud company, announced the promotion of Becky Xie to vice president and managing director for Greater China and Korea (GCK). Xie will be responsible for growing Infor’s overall business in the GCK region, and driving customer success and agility in project deliveries.

“Infor sees immense potential in China, a posterchild of market growth and one that is instrumental to the overall success of our business. With the International Monetary Fund lifting China’s 2021 growth forecast this week to a 10-year high, we are excited by the tremendous opportunity to help Chinese companies accelerate innovation and transform their organizations via cloud, mobility, artificial intelligence and IoT,” said Rod Johnson, Infor global president & chief revenue officer. “Becky has made significant contributions to the Infor China business in her eight years with the company. I am confident that her experience, business acumen and strong customer-partner network will help accelerate growth in this region.”

Xie joined Infor in 2013 and boasts 25 years of industry experience, including leadership roles in sales and channel & alliance management. At Infor, she started China’s ecosystem business from scratch and tripled the business in the first three years. She then led the charge for the new north region and created momentum by landing big deals there with leading brands. With a vision to double Infor China’s business by 2023, Xie will be looking to drive growth via cloud adoption. In recent times, she has led key wins at major regional companies such as Dongfeng Motor Corp., Jiangxi Huangshanghuang Group Food, Artron Art Group, and Deppon Logistics, supporting the business transformation of local enterprises as well as helping to lift industry standards and practices as a whole. Prior to joining Infor, Xie was channel director for SAP and led strategic partnerships at Hewlett Packard China.

“I am honored to lead the Infor Greater China and Korea region, and look forward to bolstering the company’s increasingly important foothold here,” Xie said. “Infor is in a great position to fuel the growth of local Chinese companies by offering complete industry suites in the cloud. With a high-

CIMdata PLM Industry Summary

performing team that is passionate about helping customers get value out of technology spend quickly, we are fully committed to delivering customer satisfaction and success, each and every time.”

 [Click here to return to Contents](#)

New Blockchain brochure with numerous iPoint contributions

14 April 2021

Recently, the think tank "Industrial Resource Strategies" published the brochure "Blockchain Technology for Industrial Production and the Digital Circular Economy", which contains numerous contributions from representatives from science and industry – including iPoint.

The 101-page brochure introduces the topic in an easy-to-understand manner and comprehensively highlights the use of blockchain technology for industrial production and the digital circular economy. To this end, it looks at existing information flows and data along value chains and lifecycles. In addition, the brochure offers insight into current projects as well as an outlook on emerging business models and a new interaction between the players.

We are pleased that iPoint was able to contribute to this brochure with several articles:

- Making data traceable and tamper-proof (Andreas Schiffleitner).
- Digital twins in the digital circular economy (Joerg Walden & Martina Prox).
- Blockchain brings transparency to raw material supply chains (Maroye Marinkovic & Joerg Walden).
- Blockchain as a tool to enhance supply chain management – the example of SustainBlock (Dr. Katie Boehme & Maroye Marinkovic)
- Data traceability and use cases – from mining to the finished product, with a focus on conflict minerals (Andreas Schiffleitner & Sebastian Galindo)
- How can blockchain support sustainable business models? (Joerg Walden & Gunther Walden)
- Blockchain as a catalyst for collaboration and cooptition (Joerg Walden & Maroye Marinkovic)
- Optimising value creation ecologically and economically (Martina Prox).

 [Click here to return to Contents](#)

Restoration of Notre-Dame Cathedral in Paris Embraces Digital Technology, Building Information Modeling

12 April

The public establishment dedicated to the conservation and restoration of Notre-Dame de Paris cathedral has announced an official patronage with Autodesk. Through this patronage, we are contributing design and construction solutions, including Building Information Modeling (BIM) support, an intelligent data and 3D geometric modeling process, and technical expertise. The use of BIM creates a historical digital record for increased resiliency for future events and restoration.

By embracing this innovative digital approach, the public establishment dedicated to the conservation and restoration of Notre-Dame de Paris cathedral is enabling cloud collaboration among stakeholders.

CIMdata PLM Industry Summary

Relying on a common data environment to serve as a central repository for all project information, all permitted stakeholders may have access to the latest data and plans.

Data created using reality capture technologies prior to the fire allowed Autodesk to create a 3D BIM model of the Notre-Dame Cathedral as it existed before the catastrophic event. Autodesk then used recent reality capture scans to create 3D models post-fire for comparison.

Autodesk created 3D digital visualizations depicting the Notre-Dame from multiple angles and sun positioning.

“I warmly thank Autodesk for supporting the rebirth of Paris Notre-Dame Cathedral. Using digital technologies designed for the supervision and management of the restoration site is essential for the public institution. Thanks to Autodesk’s patronage, the use of cutting-edge design and construction technologies and BIM, are being leveraged to help prepare for the reopening of the cathedral, and to once again welcome both pilgrims and visitors,” said the Army General Jean-Louis Georgelin, President of the public establishment dedicated to the conservation and restoration of Notre-Dame de Paris cathedral.

“We are humbled to participate in the restoration and future preservation of the Notre-Dame Cathedral, a truly magnificent architectural wonder of the world. Since the devastating fire two years ago, we have provided funding and technology to support the effort through the French *Fondation du Patrimoine* (Heritage Foundation) and this announcement reinforces our commitment,” said Nicolas Mangon, Autodesk Vice President of Business Strategy for Architecture, Engineering and Construction Design Solutions.



[Click here to return to Contents](#)

Siemens and SAP Expand Partnership to Deliver Intelligent Service and Asset Lifecycle Management Solutions

14 April 2021

SAP and Siemens Digital Industries Software announced an expansion of their partnership that will enable both companies to deliver new solutions for the Service and Asset Lifecycle. With an initial focus on discrete manufacturing, Siemens will begin to offer SAP® Asset Intelligence Network, the SAP Asset Strategy and Performance Management application, and the SAP Enterprise Portfolio and Project Management package. SAP will offer Siemens’ Teamcenter® software service lifecycle management (SLM) portfolio to enable an ecosystem with integrated service engineering and asset operations. The companies plan to deliver new cloud-based services that can help industrial equipment manufacturers to increase critical asset operational efficiency, avoid unplanned downtime and shorten design cycles in asset engineering projects. This can help maximize business value over the entire product and service/asset lifecycle and enable new collaborative processes between manufacturers and operators. Building on the strategic partnership between Siemens and SAP announced in July 2020, these new solutions can enable industrial equipment manufacturers to provide new services and business models for installed equipment and help owners and operators use operational insights to increase asset utilization while maximizing safety and reducing risks.

“Siemens is helping industrial companies make more confident decisions by closing the loop between IT and OT,” said Cedrik Neike, member of the Managing Board of Siemens AG and CEO Siemens Digital Industries. “Through this partnership we are enabling a true digital thread that integrates real time

CIMdata PLM Industry Summary

operations-based data with virtual product and asset models using components from both Siemens and SAP to provide operational insights. This can accelerate digital transformation for industrial equipment owners, operators and manufacturers who can offer new business models including performance and usage-based cost, and to more efficiently use assets.”

Companies that design, engineer, operate and service industrial assets strive to improve operational efficiency and avoid unplanned downtime, while managing the complex relationship between original equipment manufacturer (OEM) and asset operator. Through this partnership, both companies plan to offer solutions where service design content is shared with operations and back to product design as part of a closed-loop digital twin. The digital twin can be used to plan and execute service operations for plants, fleets, equipment and factories through a close collaboration among network partners.

“Siemens and SAP share a common vision for the future of industrial enterprises,” said Thomas Saueressig, member of the Executive Board of SAP SE for SAP Product Engineering. “Through this partnership we can offer unparalleled benefits to our customers by delivering a digital thread across production and supply chains – from product design, production, and operations to maintenance. This will enable companies to improve overall business performance and return on assets. Taking advantage of cloud solutions such as the SAP Asset Intelligence Network to strengthen collaboration and information exchange, together Siemens and SAP can help our customers accelerate Industry 4.0.”

The new Siemens solutions are designed to leverage elements of Siemens’ Xcelerator™ portfolio of software and services including the Teamcenter® portfolio, MindSphere®, the industrial IoT as a service and Asset Performance Management solution from Siemens, and the Mendix™ low-code platform and DataHub, together with SAP Intelligent Asset Management and SAP Enterprise Portfolio and Project Management cloud applications.

 [Click here to return to Contents](#)

The Revolution in Simulation Initiative Continues to Expand as Phoenix Integration Joins a Growing Alliance of Sponsors

14 April 2021

The global simulation industry collaboration and technology alliance *Revolution in Simulation* (“Rev-Sim” at www.rev-sim.org), created to accelerate innovation through the democratization of engineering simulation, announces Phoenix Integration (www.phoenix-int.com) as a new participating sponsor and collaborator.

Dr. Scott Ragon, Director, Technical Business Development, said “Model Based Engineering (MBE) is a holistic approach to product development, manufacturing, and lifecycle support that uses digital models to drive all engineering activities. MBE begins with the definition of system requirements and continues throughout the whole product life cycle. It is fundamentally a multidisciplinary approach, allowing engineers to understand important interactions and synergies between engineering subsystems and the impact of local design decisions on the behavior of the complete system. This enables them to make informed decisions very early in the design process as they now understand how decisions made for one system will impact other systems and the overall vehicle, and to manage trade-offs between performance, cost and requirements.”

Phoenix Integration adds its name to a steadily increasing list of participating sponsors that now includes Aras, ASSESS, BETA CAE, Dassault SolidWorks, EASA, ESRD, Front End Analytics, Future Facilities, Hexagon/MSC, Kinetic Vision, Modelon, NAFEMS, nTopology, Ohio Supercomputer

CIMdata PLM Industry Summary

Center, OnScale, PASS Suite, Pointwise, Siemens, UberCloud and VCollab. Each of these simulation leaders are providing expert leadership in the movement to make engineering simulation software more accessible, efficient, reliable, and impactful not just for CAE experts but also for others across the enterprise – what is commonly referred to as the *Democratization of Simulation*. The demand for automated simulation is exploding, resulting in next-generation usage of traditional, expert-driven simulation tools and platforms.

Rev-Sim Director of Partnerships, Mike Nieburg said, “Each of our sponsors are working to advance and expand the use and value of engineering simulation software by innovating within their market spaces. We are excited to have Phoenix Integration join us demonstrating their revolutionary thought-leadership and technology in a collaborative alliance that benefits all industrial users of engineering simulation.”

 [Click here to return to Contents](#)

Toyota Industries Corporation and Siemens cooperate on digital transformation for die casting

12 April 2021

To support their goal of manufacturing quality parts, Toyota Industries Corporation and Siemens have cooperated to develop artificial intelligence (AI) that can predict product abnormalities in aluminum die casting, a key process in automotive air conditioning compressor production.

The development is one of the world’s first to use defect prediction AI for die casting. It improves quality and productivity by utilizing the AI application in Industrial Edge, the Siemens edge computing platform for industry. The initiative is an innovative example of digital transformation in manufacturing, and Toyota Industries Corporation aims to use it to further evolve their technology and incorporate it into their production plants in Japan and overseas. Siemens hopes that more businesses in the manufacturing industry will adopt their digitalization and automation solutions such as Industrial Edge.

The die casting process is challenging to manage due to a range of constantly changing production conditions such as variations in the molten aluminum temperature or the injection rate. Success relies on the judgement of experienced workers, and sometimes the parts require secondary processing to handle abnormalities and maintain high quality standards.

During development, the two companies used a Siemens Simatic S7-1500 controller to gather big data totaling approximately 40,000 data points per die casting shot at the model line and then analyzed the data using AI technology. They succeeded in preventing defects and improving quality by monitoring the production status in real time and automatically predicting equipment abnormalities that lead to quality issues. The production data is processed by the defect prediction AI on Industrial Edge, enabling instant analysis of the data on production conditions at the time of a shot and assessment of the part quality immediately after the casting. This series of AI technologies boosts productivity, improves quality, and transforms how operators work

Aluminum die casting is a high-speed molding process in which molten aluminum is shot into a die at high pressure. It is ideal for the accurate manufacture of metal cast parts that demand high dimensional precision, and therefore is often used for automotive parts that require high quality and reliability. The aluminum die cast parts made at the Toyota Industries Corporation production plant in Obu, Japan, have excellent airtightness and high-pressure resistance. They are essential for the high-quality Toyota Industries Corporation compressors used in automotive air conditioning, a field in which they proudly hold the largest share of the global market*.

Siemens aimed to contribute to operational improvements with Siemens Industrial Edge, while Toyota

CIMdata PLM Industry Summary

Industries Corporation aimed to increase quality and productivity. The alignment of these goals with the die casting process led to this development, during which they demonstrated proof of concept across two years and achieved a successful outcome. Based on this result, they will continue pursuing technological advancements in order to provide better products for their customers throughout the world.

“Digital transformation is a game changer. I am delighted to have the opportunity to partner with Toyota Industries Corporation in this revolutionary endeavor and to work together to forge the future,” says Rainer Brehm, CEO of Factory Automation, Siemens AG. “We will continue to develop and provide solutions for industries incorporating the latest technologies and to contribute to optimized and sustainable manufacturing.”

“It is significant that Toyota Industries Corporation has successfully implemented AI technology and achieved outcomes in the die casting process, which is where important compressor parts are produced. I am also proud that we have contributed to the practical use of Industrial Edge, the Siemens edge computing platform for industry,” says Yuji Ishizaki, Senior Executive Officer, Member of the Board and General Manager of Compressor Division, Toyota Industries Corporation. “We will continue to offer new value for customers and to pursue even better working methods by embracing the use of advanced digital technologies in the production field.”

 [Click here to return to Contents](#)

Velodyne and Ansys Team Up to Transform Autonomous Vehicle Safety

12 April 2021

Ansys speeds lidar development to enhance autonomous driving hazard recognition

Velodyne and Ansys are developing software models of next-generation automotive lidar sensors to provide substantially improved hazard identification capabilities for highly advanced AVs. The collaboration incorporates Velodyne’s lidar design into Ansys’ virtual sensor suite and expedites automakers’ integration of Velodyne’s sensor into AVs — delivering industry-leading driving safety and a drastically faster path to market.

One of the challenges facing many advanced driver assistance systems (ADAS) is the robustness of the system to dependably test and recognize potentially dangerous edge case scenarios. To manage these anomalies, AVs require lidar as a redundant detection technology that effectively locates and tracks objects across an incredibly wide range of operational situations. However, to be validated as reliable, lidar sensors must perform countless miles of exhaustive physical testing, which radically increases the development cost of the system.

Velodyne is collaborating with Ansys to integrate an encrypted ‘black box’ physics-based lidar sensor model into Ansys VRXPERIENCE™, a next-gen, real-time interactive driving simulator that models, evaluates and validates lidar designs within a highly realistic virtual environment. This end-to-end capability empowers engineers to rapidly model countless edge case driving scenarios across millions of miles and substantially reduce physical tests. As OEMs integrate Velodyne’s lidar into their ADAS portfolio, VRXPERIENCE will reduce development costs by enhancing lidar placement within AVs and validating AV performance.

“Ansys VRXPERIENCE supports faster development and deployment of ADAS solutions using Velodyne’s lidar by providing a fully immersive environment to test and improve hazard identification capabilities,” said Anand Gopalan, CEO at Velodyne Lidar. “Velodyne’s focus on safety aligns with Ansys strengths in enabling informed design decisions. Our collaboration helps engineers virtually run their ADAS applications in challenging roadway conditions so they can build solutions that achieve safe

navigation and collision avoidance.”

“As part of Ansys’ AV ecosystem, Velodyne is helping to define the landscape of safe autonomous driving. Velodyne’s leading-edge automotive lidar greatly increases the safety and reliability of ADAS, powering highly intelligent AVs that improve decision making across many complex edge case scenarios,” said Prith Banerjee, chief technology officer at Ansys. “Using VRXPERIENCE, OEMs will validate the lidar’s software stack and have full access to a validated sensor model, while preserving Velodyne’s IP. This will enable Velodyne to rapidly and cost-effectively design trailblazing lidar sensors and significantly speed delivery to market.”

On April 20th and 21st, Velodyne will present “How Lidar Sensors, Software and Simulation Advance Autonomous Applications” at Simulation World 2021. The presentation will be available live and on demand.

 [Click here to return to Contents](#)

Event News

Aspen Technology Announces Keynote Panelists for OPTIMIZE™ 2021

13 April 2021

Aspen Technology, Inc., a global leader in asset optimization software, announced the keynote panel for the virtual OPTIMIZE™ 2021 conference, May 18-20, 2021.

The event, themed “*The Future Starts with Industrial AI*,” brings together executives and operational leaders from capital-intensive industries who are accelerating their digitalization investments to meet the demands of ‘always-volatile’ markets. The program will feature keynote presentations, panels and virtual meetings designed to share ideas and experience from AspenTech customers who use our solutions to drive sustainability goals by achieving great efficiency and reliability, gain the agility to respond quickly to supply chain conditions, and learn how Industrial AI is shaping the future of the Self-Optimizing Plant. The presentations will also be available on-demand to registered attendees.

The keynote panel, titled “The Sustainability Imperative,” will include:

- Georgio Bresciani, Senior Partner, McKinsey & Company
- Zhanna Golodryga, Senior Vice President, Chief Digital and Administrative Officer, Philips 66
- Dr. Béla Kelemen, Vice President of the Center for Business Excellence, MOL Group and President of the European Petroleum Refiners Association
- Dr. Bob Maughon, CTO and CSO, Executive Vice President, Sustainability, Technology and Innovation, SABIC
- Lyn Tattum, Vice President, IHS Markit (Moderator)

Additionally, Tracey Countryman, Senior Managing Director, Industry X Manufacturing and Operations, Accenture will present a keynote titled “Now, More Than Ever, it is Time to Rethink Digital Transformation.”

“We design each OPTIMIZE event as a way to connect our customers and for everyone to hear more about the innovative and leading ways that AspenTech solutions are solving their most complex challenges. This year, there is no charge for the virtual event which means even more of our customers from around the world are able to attend,” said Antonio Pietri, President and CEO at AspenTech.

CIMdata PLM Industry Summary

“Organizations in capital-intensive industries have faced many challenges during the past 15 months, and this event presents an opportunity to share how AspenTech solutions enabled them to remain agile throughout the pandemic with their peers. We’re particularly excited to showcase these plenary sessions and help our customers navigate their own digital transformation journeys.”

OPTIMIZE 2021 is the premier virtual conference for executives and operations leaders in capital-intensive industries.

 [Click here to return to Contents](#)

A Virtual Conversation on the Hybrid Remote Workforce

16 April 2021

Title: A Virtual Conversation on the Hybrid Remote Workforce

When: Wednesday, April 21, 2021, 3:00-4:00pm

Quick Description: Engage in a virtual dialog on the transition to a hybrid remote workforce. Multiple perspectives ranging from education, HR, business, and technology are invited.

Description: The University of Cincinnati Remote Work Lab and Learning Center wants to have an engaging and thought-provoking conversation on the hybrid remote workforce. How has this global pandemic impacted your organization and where work gets done? Let’s talk about the future of your workforce and how remote work might be embedded. Is your organization ready for what work will look like post-pandemic? We’ll discuss different types of hybrid remote work, the pros and the cons, and what we should all be considering when it comes to remote work.

More information is available at

<https://www.linkedin.com/events/avirtualconversationonthehybrid6783765688772288512/about/>

To register: <https://www.eventbrite.com/e/148363201329>

 [Click here to return to Contents](#)

Financial News

Infosys: Digital Differentiation and Large Deal Momentum Drive Industry-leading Growth in FY21

14 April 2021

Infosys, a global leader in next-generation digital services and consulting, delivered strong FY21 performance with 5.0% CC growth, and growth accelerating to 9.6% in Q4 – in the face of a turbulent economic environment. Large deal TCV for FY21 peaked to an all-time high of \$14.1 billion with 66% being net new. Operating margin for the year expanded by 3.2% and Free Cash Flows increased by 38.5%. The Board has recommended capital return of ₹15,600 crore (app. \$2.08 billion) including final dividend of ₹6,400 crore (app. \$0.85 billion) and open market buyback of shares of ₹9,200 crore (app. \$1.23 billion).

"I am very pleased with our performance this year and incredibly proud of our employees for the passion

CIMdata PLM Industry Summary

and commitment they displayed despite a very tough environment. We have crossed a milestone of `100,000 crore in revenue in FY21. Our intense focus on client relevance, growing our digital portfolio with differentiated capabilities like Infosys Cobalt™, and empowering employees have helped us emerge as a preferred 'partner-of-choice' for our global clients. Our record large deal wins stand testimony to the effectiveness of this approach", **said Salil Parekh, CEO and MD**. "A strong momentum exiting FY21, alongside a focused strategy to accelerate client digital journeys, gives us confidence for a stronger FY22", he added.

34.4% Q4 YoY	9.6% Q4 YoY	24.5% Q4	17.0% FY	\$2.1 bn Q4
29.4% FY	5.0% FY	24.5% FY	Increase in EPS	\$14.1 bn FY
CC Digital growth	CC Revenue growth	Operating margin	(INR terms)	Large deal signings

Outlook for FY22:

- Revenue growth guidance of 12%-14% in constant currency
- Operating margin guidance of 22%-24%

In Q4, Infosys continued to expand its digital capabilities, especially with the Infosys Cobalt™ cloud portfolio. The company announced a partnership with LivePerson for Conversational AI to help brands manage AI-powered conversations with consumers and employees. Powered by NVIDIA DGX A100 systems, the company also built its own applied AI cloud to provide employees simple and fast access to AI infrastructure, expanding their ability to drive AI-driven transformation for enterprises.

During the quarter, Infosys was also recognized as one of the World's Most Ethical Companies in 2021 by Ethisphere Institute, US and was ranked #30 on WSJ's 2021 list of 100 most sustainably managed companies in the world.

1. Key highlights for the quarter and year ended March 31, 2021

For the quarter ended March 31, 2021

Revenues in CC terms grew by 9.6% YoY and 2.0% QoQ

Reported revenues at \$3,613 million, growth of 13.0% YoY

Digital revenues at 51.5% of total revenues, YoY CC growth of 34.4%

Operating margin at 24.5%, increase of 3.4% YoY and decline of 0.9% QoQ

Basic EPS at \$0.16, growth of 18.0% YoY

FCF at \$799 million, YoY growth of 34.7%; FCF conversion at 114.6% of net profit

For the year ended March 31, 2021

Revenues in CC terms grew by 5.0% YoY

Reported revenues at \$13,561 million, growth of 6.1% YoY

Digital revenues at 48.5% of total revenues, YoY CC growth of 29.4%

Operating margin at 24.5%, increase of 3.2% YoY

Basic EPS at \$0.62, growth of 12.5% YoY

FCF at \$2,973 million, YoY growth of 38.5%; FCF conversion at 113.3% of net profit

"Despite the disruptions, we continue to execute seamlessly with broad-based momentum across verticals. This has led to healthy volume growth and record utilization in a seasonally soft

CIMdata PLM Industry Summary

quarter", **said Pravin Rao, COO**. While our employees continue to work from home through this health crisis, we remain focused on their wellness, including facilitating vaccination rollout for eligible employees. Attrition has picked up, largely reflecting a strong demand environment, but we remain confident of our employee engagement initiatives, vast talent pool and training capabilities to ensure seamless execution," he added.

"FY21 was a landmark year with superior shareholder returns backed by robust operating metrics and strong growth across revenue, margins and free cash flows", **said Nilanjan Roy, CFO**. "Executing on our capital allocation policy, the company proposes to increase the total dividend per share by 54% over previous year and Buyback of Equity shares of up to ₹9,200 crore", he added.

2. Capital Allocation

The Board in its meeting held today approved the following:

- Buyback of Equity Shares, from the open market route through the Indian stock exchanges, amounting to ₹9,200 crore (Maximum Buyback Size, excluding buyback tax) (app. \$1.23 billion*) at a price not exceeding ₹1,750 per share (Maximum Buyback Price) (app. \$23.3 per ADS*), subject to shareholders' approval in the ensuing AGM.
- For FY 21, the Board has recommended a final dividend of ₹15 per share (\$0.20 per ADS*). Together with the interim dividend of ₹12 per share already paid, the total dividend per share for FY 21 will amount to ₹27 (app. \$0.36 per ADS*) which is a 54% increase over FY 20. With this, the company has announced total dividend of ₹11,500 crore (app. \$1.53 billion*) for FY21.

**USD-INR rate of 75.00*

3. Client Wins & Testimonials

The trust clients repose in Infosys drives us to invest further in building stronger digital capabilities and to raise the bar in delivery excellence.

- **Sam Marnick, Executive Vice President and Chief Operating Officer, Spirit AeroSystems**, said, "We look forward to partnering with Infosys on our efforts to further diversify our business and strategically position Spirit AeroSystems for the future. We appreciate the long-standing relationship we have with Infosys and the support they have brought to a number of strategic projects for Spirit."
- **Alan Feeley, CIO of Siemens Gamesa**, said, "Implementing a single S/4HANA system across all business units and regions is a core component of our company-wide strategy towards process efficiency, standardization and industrialization. These first go live steps across 7 countries, supporting all business types, have proven the value of the greenfield approach chosen, achieving a stable productive environment around Hybrid Azure cloud by Infosys. This single and global setup provides an almost Zero "change the standard" approach giving confidence towards sustainable cost management & upgrade proofing for the future. Infosys has demonstrated admirable 'staying power' and has delivered a solid product whilst fulfilling our expectations of being a partner in full."
- "We are pleased to continue to partner with Infosys BPM in standardizing and digitizing supply chain processes across our regions. Infosys BPM's strong leadership commitment and clear understanding of our operations will enable significant productivity improvements, service levels improvements, and cost savings," said **Ryan Plourde, Group Executive – Supply Chain, Newmont Corporation**.
- **Paolo Lomonaco, CFO, Chalhoub Group**, said, "We are delighted to extend our strategic

CIMdata PLM Industry Summary

collaboration with Infosys to accelerate our digital transformation journey and enable a seamless transition to a new business model in the post-Covid normal. Infosys has been our partner of choice in providing a range of technology services for almost a year and has managed to efficiently transition during the unprecedented situation. We look forward to leveraging Infosys' adroitness and a clear understanding of best in class retail technologies to scale digital commerce and drive operational efficiency."

- "We collaborated with Infosys to organize our first Mars AI virtual festival in December 2020, featuring top leaders from Mars, incorporated and globally renowned AI experts. With more than 8,000 associates and business stakeholders attending, spread across geographies, and spanning various business segments, we needed a platform that could not only support the scale of the event but also deliver a seamless, immersive, and engaging experience. And the Infosys Meridian platform delivered. Using the Infosys Meridian workplace ecosystem, we were able to drive interactions and collaboration amongst the global participants by orchestrating immersive interventions that included 26 kiosks, a speaker hangout area, a Twitter board, multiple games, a leaderboard, a digital caricature corner, and a live DJ. Over the five days of the event, we were able to execute an exciting agenda to create and sustain meaningful engagements with our global stakeholders." - **Miao Song, Global CIO, Mars Petcare**
- "Our partnership with Infosys has been invaluable, allowing us to innovate, strengthen our core operations, handle growing volumes and as customers focus on becoming increasingly digital, improve our services. The Infosys team supports our business transformation goals by helping us drive efficiencies and improve customer experience. Infosys demonstrated great support and flexibility throughout the pandemic, helping us keep our operations running and delivering with an unwavering customer-focus." - **Petteri Naulapää, CIO, Posti Group Oyj**

4. Recognitions

1. Ranked #30 (from previous ranking of #94 in 2020) on WSJ's 2021 List of 100 Most Sustainably Managed Companies in the World
2. Recognized as one of the World's Most Ethical Companies in 2021 by Ethisphere Institute, US
3. Positioned as a leader in Gartner Magic Quadrant for Data and Analytics Service Providers
4. Ranked as a leader in HFS Top 10: Hyperscaler Cloud Service Providers 2021
5. Ranked as a leader in HFS Top 10: Digital Associates Services
6. Positioned as a leader in NelsonHall NEAT on Salesforce Services 2020
7. Ranked as a leader in NelsonHall NEAT in SAP Cloud Migration Services 2021
8. Ranked as a leader in Constellation ShortList™ Microsoft End-to-End Service Providers
9. Positioned as a leader in Constellation ShortList™ Blockchain Technology Services
10. Positioned as a leader in Constellation ShortList™ Learning Marketplaces
11. Ranked as a Leader in Everest - Software Product Engineering Services PEAK Matrix® Assessment 2021
12. Infosys scored 95 out of 100 on the Human Rights Campaign Corporate Equality Index for LGBTQI+ Inclusion
13. Rated by Sustainalytics as an ESG Industry Top Rated Company
14. Awarded Top Employers Global 2021 certification in 20 countries across Europe, Middle

CIMdata PLM Industry Summary

East, Asia Pacific, and North America. With top ranking in 15 countries and #1 ranking in India, APAC, and Middle East Region, and among the top 2 employers in the United States and Australia.

 [Click here to return to Contents](#)

Invitation to presentation of Hexagon's Interim Report on 29 April

9 April 2021

Hexagon will release its Interim Report for the first quarter 2021 on Thursday 29 April at approximately 13:00 CET. A combined telephone conference and live webcast concerning the report will be presented by President and CEO Ola Rollén on the same day at 14:00 CET.

Please call +46 (0) 8 566 426 51 (SWE), +44 (0) 333 300 0804 (UK), +1 631 913 1422 (US) (code: 52401531#) to participate or go to the website (hexagon.com) to access the webcast.

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

 [Click here to return to Contents](#)

PTC to Announce Fiscal Q2'21 Results on Wednesday, April 28th, 2021

12 April 2021

PTC will release its fiscal 2021 second quarter results on Wednesday, April 28th after the stock market closes. Senior management will host a live webcast and conference call to review the results on Wednesday, April 28th at 5pm Eastern Time. The earnings press release and accompanying prepared remarks will be accessible prior to the conference call and webcast on the Investor Relations section of the Company's web site at PTC Investor Relations.

What: PTC Fiscal Q2'21 Conference Call and Webcast

When: Wednesday, April 28th, 2021 at 5:00pm (ET)

 [Click here to return to Contents](#)

SAP SE will release its results for the first quarter of 2021 on Thursday, April 22

12 April 2021

SAP CEO Christian Klein and CFO Luka Mucic will host a virtual analyst conference to present first quarter financial figures, as well as an outlook on the current financial year.

Media representatives may listen in on the virtual analyst conference via Webcast at 2:00 p.m. CET/8:00 a.m. ET.

 [Click here to return to Contents](#)

TCS Closes FY 21 on Strong Note: Looks at Growth and Transformation to Power the Future

12 April 2021

Tata Consultancy Services, the leading global IT services, consulting and business solutions organization, reported its consolidated financial results according to Ind AS and IFRS, for the quarter ending March 31, 2021.

CIMdata PLM Industry Summary

FY 2020-21: Other Annual Highlights	Q4 FY 2021: Other Highlights
<ul style="list-style-type: none"> • Net Income: \$4.513 Bn*; Net Margin: 20.3%* • Employee Metrics: <ul style="list-style-type: none"> ○ Net Addition: 40,185 employees ○ Employee Headcount: 488,649 ○ IT Services Attrition (LTM) at All-time Low: 7.2% • Free Cash Flow: \$5.13 Bn, +13% YoY • Over \$4.17 Bn of cash returned to shareholders through buybacks and dividends 	<ul style="list-style-type: none"> • Net Income: \$1.267 Bn, +15.6% YoY • Net Margin: 21.2%, +1 % YoY • Cash conversion: Operating Cash Flow 100.0% of Net Income • Net Addition: 19,388 employees, highest ever in a qtr • Final Dividend per share (proposed): `15

**Excludes legal claim provision*

Rajesh Gopinathan, Chief Executive Officer and Managing Director, said: *“Our investments over the last decade in building newer capabilities, and in research and innovation, position us well for the multi-year technology services opportunity ahead. While we continue to dominate in our traditional areas of strength, we are making good progress in gaining share in the growth and transformation opportunity. Our focus going into FY 22 will be to engage with clients in their growth agenda, propelled by innovation and leverage of collective knowledge.”*

N Ganapathy Subramaniam, Chief Operating Officer & Executive Director, said: *“I am pleased to note that in FY 21, leading organizations partnered with TCS in their growth and transformation journeys. Many of them benefited from our refreshingly different consultative approach to shaping, contracting, executing, and measuring the success of transformation programs, always holding ourselves accountable for the results.”*

He added: *“It is gratifying to bring down the curtains on FY21 with a solid performance on revenue, margins and deal momentum, all of which was possible due to the client-centric and ‘can do’ attitude of our associates rising to the occasion, keeping safe and healthy, professionally executing on SBWS™ and learning all the new products, toolkits and ways of working.”*

V Ramakrishnan, Chief Financial Officer, said: *“I am very pleased with our performance in Q4. This caps three quarters of consistently robust performance in a pandemic year, and gives us a strong exit from FY 21. Our Q4 margins are a validation of our strong belief that it is possible to win mega-deals, post industry-leading growth, continue to invest in our people and in newer capabilities, and still deliver industry-leading profitability. All the investments that we have been making over the years position us strongly to expand our footprint in the large growth and transformation opportunity.”*

Q4 Segment Highlights**

Industries: All verticals showed good sequential growth, but a couple continue to lag prior year level – BFSI (+7% QoQ, +13.3% YoY), Retail and CPG (+4% QoQ, -0.9% YoY), Life Sciences and Healthcare (+3.8% QoQ, +19.3% YoY), Manufacturing (+3.9% QoQ, +1.3% YoY), Technology & Services (+2.8% QoQ, +3.9% YoY) and Communications & Media (+1.8% QoQ, -4% YoY). On a full year basis, Life Sciences and Healthcare (+17.1%), BFSI (+2.4%) and Technology & Services (+0.2%) showed growth while the rest continue to be below prior year levels.

CIMdata PLM Industry Summary

Markets: Growth was led by major markets – Continental Europe (+8.5% QoQ, +11.7% YoY), North America (+3.9% QoQ, +5.9% YoY), and UK (+3.4% QoQ, +1% YoY). Other markets grew well: Middle East & Africa (+4.2% QoQ, +10.6% YoY), India (+2.8% QoQ, +11.2% YoY), Latin America (+2.5% QoQ, +1.5% YoY), and Asia Pacific (+1% QoQ, +1.5% YoY). On a full year basis, with the exception of Continental Europe which grew +5.5%, all other markets continue to be in negative territory compared to the prior year.

Services: Growth and transformation services, driven by clients continuing on their multi-horizon transformation journeys, saw strong demand. Advisory and Design services continue to gain traction across business stakeholders. There was robust growth across the board, led by Cloud Platform Services, Enterprise Application services, Cyber Security & Analytics.

- **Consulting & Services Integration:** Strong rebound continues as companies move from crisis management to adapting to new beginnings. Q4 saw an uptick in M&A and divestiture activity with clients looking to restructure for better focus on their target markets and to raise cash for acquisitions. There was also strong demand for next generation enterprise transformation, enterprise agility, and cloud strategy & transformation services.
- **Digital Transformation Services:** Growth was driven by increasing investing in technologies and business solutions to advance multi-horizon transformation imperatives. There was strong demand for data modernization and business analytics powered by DATOM™, DAEzMo™ and Decision Fabric™; intelligent connected solutions leveraging TCS Bringing Life To Things™ framework; Cyber Defense suite of services; remote work, automated and contact-less services, customer & employee experience, and supply chain modernization.
- **Cloud Platform Services:** Accelerating investments in holistic digitalization enabled by cloud drove strong growth in public hyperscaler and private cloud services, led by migration and modernization, cloud native application development, and collaboration services.
- **Cognitive Business Operations:** There was strong demand driven by customers' need for resilient business operations and world-class experiences through integrated cognitive operations leveraging MFD™ and CogniX™. Growth drivers included multiple first-time outsourcing deals, acceleration of digital adoption and hyper-automation, datacenter services, Smart Workplace solutions, digital F&A, automation, service management and pharmacovigilance services.

**** Growth in CC**

Research and Innovation

As on March 31, 2021, the company has applied for **5,879** patents, including **245** applied during the quarter, and has been granted **1,850** patents.

Human Resources

In Q4, TCS add **19,388** employees to its rolls on a net basis, its highest ever net addition in a quarter. The total headcount stood at **488,649**, a net addition of **40,185** during the year. The workforce continues to be young and very diverse, comprising **154** nationalities and with women making up **36.5%** of the workforce.

TCS' organic talent development initiatives continued to deliver industry-leading outcomes. Employees logged **43** million learning hours in FY 2021, resulting in over **379,000** employees getting trained on multiple new technologies, and over **457,000** trained on Agile methods. The company continues to be the employer of choice, with industry-leading talent retention. IT Services attrition rate (LTM) was

at 7.2%.

“With the second wave of the pandemic upon us, our top priority is once again to secure the health and personal wellbeing of our workforce across the world. We are looking at ways to expedite vaccinations for eligible TCSers wherever local regulations allow it, and in the meantime, urge everyone to stay safe, step out only if necessary, wear masks and practice physical distancing,” said **Milind Lakkad, Chief HR Officer**. *“On the business side, our investments in organic talent development have been core to our ability to increasingly participate in our customers’ growth and transformation initiatives. Our organic talent development program anticipates the technology and business needs of our customers, and designs career paths that help our employees meet their aspirations, while building leaders and a future-ready workforce for TCS.”*

 [Click here to return to Contents](#)

Wipro Limited Announces Results for the Quarter and Year ended March 31, 2021 under IFRS

15 April 2021

Wipro Limited announced financial results under International Financial Reporting Standards (IFRS) for the Quarter and Year ended March 31, 2021.

Highlights of the Results

Results for the Quarter ended March 31, 2021:

- Gross Revenue was Rs 162.5 billion (\$2.2 billion¹), an increase of 3.4% YoY
- IT Services Segment Revenue was at \$2,152.4 million, an increase of 3.9% QoQ and 3.8% YoY
- Non-GAAP² constant currency IT Services Segment Revenue increased by 3.0% QoQ and 0.5% YoY
- IT Services Operating Margin³ for the quarter was at 21.0%, an expansion of 344 bps YoY
- Net Income for the quarter was Rs 29.7 billion (\$406.4 million¹), an increase of 27.8% YoY
- Earnings Per Share for the quarter was at Rs 5.39 (\$0.07¹), an increase of 31.8% YoY

Results for the Year ended March 31, 2021:

- Gross Revenue was Rs 619.4 billion (\$8.5 billion¹), an increase of 1.5% YoY
- IT Services Segment Revenue was at \$8,136.5 million, a decrease of 1.4% YoY
- Non-GAAP² constant currency IT Services Segment Revenue decreased by 2.3% YoY
- IT Services Operating Margin³ for the year was at 20.3%, an expansion of 218 bps YoY
- Net Income for the year was Rs 107.9 billion (\$1,475.9 million¹), an increase of 11.0% YoY
- Earnings Per Share for the year was at Rs 19.11 (\$0.26¹), an increase of 14.6% YoY
- Operating Cash Flow was at Rs 147.6 billion (\$2,017.4 million¹), an increase of 46.6% YoY, which is 136.7% of Net Income

Performance for the quarter and year ended March 31, 2021

Thierry Delaporte, CEO and Managing Director said, “I am delighted with the way we have finished the financial year. We delivered a third consistent quarter of strong revenue growth, deal wins and operating margins. We also announced our largest ever acquisition of Capco that will bolster our global financial services sector. We are excited with this wave of business momentum that we are witnessing.

CIMdata PLM Industry Summary

All key markets are now growing on YoY basis and this provides us a solid foundation to build on next year growth rates.”

Jatin Dalal, Chief Financial Officer said, “We delivered a 340 bps expansion YoY in operating margins for the quarter after absorbing the impact of wage hike. On a full year basis we increased margins by 220 bps with a consistent improvement in operating metrics. Led by disciplined execution, we generated strong operating cash flows at 136.7% of our net income for the full year. We successfully completed the share buyback program returning \$1.3Bn to our shareholders.”

1. For the convenience of the readers, the amounts in Indian Rupees in this release have been translated into United States Dollars at the certified foreign exchange rate of US\$1 = Rs 73.14, as published by the Federal Reserve Board of Governors on March 31, 2021. However, the realized exchange rate in our IT Services business segment for the quarter ended March 31, 2021 was US\$1= Rs 73.83
2. Constant currency revenue for a period is the product of volumes in that period times the average actual exchange rate of the corresponding comparative period
3. IT Services Operating Margin refers to Segment Results Total as reflected in IFRS financials

Outlook for the quarter ending June 30, 2021

We expect Revenue from our IT Services business to be in the range of **\$2,195** million to **\$2,238** million*. This translates to a sequential growth of **2.0% to 4.0%**. This does not include revenue from our recently announced acquisitions of Capco and Ampion.

* Outlook is based on the following exchange rates: GBP/USD at 1.39, Euro/USD at 1.20, AUD/USD at 0.78, USD/INR at 72.76 and CAD/USD at 0.78

Capital Allocation

- In the quarter ended March 31, 2021, the Company has concluded the buyback of 237.5 million equity shares as approved earlier by the Board of Directors at their meeting held on October 13, 2020 for an aggregate amount of Rs 95 billion (\$1.3 billion¹), excluding buyback tax
- The interim dividend of Rs 1 declared by the Board at its meeting held on January 13, 2021 shall be considered as the final dividend for the financial year 2020-21

IT Services

Wipro continued its momentum in winning large deals with our customers as described below:

- Wipro has won a multi-million-dollar integrated engagement from a leading US-based industrial manufacturing company to transform and modernize its business functions and enable it to become a digital enterprise via transformation in applications, infrastructure, cyber security and service delivery.
- Wipro has won a multi-year strategic contract from a US-based digital transformation and consulting agency to provide Infrastructure Managed Services for its Data Center, and Network and Tools landscape. Wipro will leverage AI Ops tool stack to automate the client’s infrastructure to reduce turnaround time across requests and incidents, improve operational efficiency, and deliver a superior user experience for its end customer, a leading US-based Federal agency.

Digital Services Highlights

We continue to see increasing traction in digital oriented and other strategic deals as illustrated below:

CIMdata PLM Industry Summary

- A leading Indian e-commerce and technology company has selected Wipro to enhance customer experience, leveraging its expertise in digital operations and new-age solutions.
- A leading technology provider has awarded Wipro a contract to consolidate its enterprise digital assets on cloud and on-premise to a centralized content repository to enable robust management of its marketing content needs.
- A global communications and networking giant has extended their decade-long partnership with Wipro Designit to research, prototype, and design their major product family, as well as associated services and experience.
- Wipro has won a multi-year engagement with a US-based utilities company to provide System Integrator services for a large business and IT transformation program in the areas of Supply Chain and Enterprise Work and Asset Management. Wipro will leverage its strong domain expertise and capabilities in Digital, Applications, and Data and Analytics to implement leading practices and business processes across the enterprise.
- A multinational professional services company has engaged Wipro Designit to design next generation, user-centric experience for its employees. Designit will apply research, service design blueprinting and experience design to transform the workplace and the computing experience for the client's global workforce.

Analyst Recognition

- Wipro was positioned as a Leader in Gartner Magic Quadrant for Managed Workplace Services, North America, Daniel Barros, Mark Ray, Stephanie Stoudt-Hansen, Tobi Bet, 24 Feb 2021
- Wipro was positioned as a Leader in Gartner Magic Quadrant for Managed Workplace Services, Europe, David Groombridge, Claudio Da Rold, Alexandra Chavez, Daniel Barros, Katja Ruud, 24 Feb 2021
- Wipro was positioned as a Leader in Gartner Magic Quadrant for Customer Service BPO, Deborah Alvord, Kim Dans, Philip Jenkins, John Quaglietta, TJ Singh, 9 Feb 2021
- Wipro ranks among the Top Service Providers in Customer Satisfaction Category in Whitelane / Quint Netherlands IT Outsourcing Study 2021
- Wipro ranks among the Top Service Providers in Customer Satisfaction Category in Whitelane & PA Consulting IT Outsourcing Study 2021 in Nordics Region
- Wipro was positioned as a Leader in Everest Group's Pharmacovigilance and Complaint Management Operations Services PEAK Matrix® Assessment 2021
- Wipro was recognized as a Leader in Everest Group's Intelligent Process Automation (IPA) Solutions PEAK Matrix® Assessment 2021
- Wipro was recognized as a Leader in Everest Group's Semiconductor Engineering Services PEAK Matrix® Assessment 2021
- Wipro was rated as a Leader in ISG Provider Lens™ Salesforce Ecosystem Partners 2021 – US
- Wipro was rated as a Leader in ISG Provider Lens™ Next-gen Application Development & Maintenance (ADM) Services 2020 – US and UK

Disclaimer: Gartner does not endorse any vendor, product or service depicted in its research publications, and does not advise technology users to select only those vendors with the highest ratings or other designation. Gartner research publications consist of the opinions of Gartner's research organization and should not be construed as statements of fact. Gartner disclaims all warranties,

CIMdata PLM Industry Summary

expressed or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose.

IT Products

- IT Products Segment Revenue for the year was Rs 7.7 billion (\$105.1 million¹)
- IT Products Segment Results for the year was a profit of Rs 0.05 billion (\$0.62 million¹)
- IT Products Segment Revenue for the quarter was Rs 2.1 billion (\$28.9 million¹)
- IT Products Segment Results for the quarter was a profit of Rs 0.15 billion (\$2.0 million¹)

India business from State Run Enterprises (ISRE)

- India SRE Segment Revenue for the year was Rs 8.9 billion (\$121.8 million¹)
- India SRE Segment Results for the year was a profit of Rs 1.1 billion (\$14.5 million¹)
- India SRE Segment Revenue for the quarter was Rs 2.3 billion (\$31.5 million¹)
- India SRE Segment Results for the quarter was a profit of Rs 0.6 billion (\$8.0 million¹)

Please refer to the table at the end for reconciliation between IFRS IT Services Revenue and IT Services Revenue on a non-GAAP constant currency basis.

About Non-GAAP Financial Measures

This press release contains non-GAAP financial measures within the meaning of Regulation G and Item 10(e) of Regulation S-K. Such non-GAAP financial measures are measures of our historical or future performance, financial position or cash flows that are adjusted to exclude or include amounts that are excluded or included, as the case may be, from the most directly comparable financial measure calculated and presented in accordance with IFRS.

The table at the end provides IT Services Revenue on a constant currency basis, which is a non-GAAP financial measure that is calculated by translating IT Services Revenue from the current reporting period into U.S. dollars based on the currency conversion rate in effect for the prior reporting period. We refer to growth rates in constant currency so that business results may be viewed without the impact of fluctuations in foreign currency exchange rates, thereby facilitating period-to-period comparisons of our business performance. Further, in the normal course of business, we may divest a portion of our business which may not be strategic. We refer to the growth rates in both reported and constant currency adjusting for such divestments in order to represent the comparable growth rates.

This non-GAAP financial measure is not based on any comprehensive set of accounting rules or principles and should not be considered a substitute for, or superior to, the most directly comparable financial measure calculated in accordance with IFRS and may be different from non-GAAP measures used by other companies. In addition to this non-GAAP measure, the financial statements prepared in accordance with IFRS and the reconciliation of these non-GAAP financial measures with the most directly comparable IFRS financial measure should be carefully evaluated.

Results for the quarter and year ended March 31, 2021, prepared under IFRS, along with individual business segment reports, are available in the Investors section of our website.

 [Click here to return to Contents](#)

Implementation Investments

Atos secures Bureau Veritas' information systems with latest-generation Security Operations Center

13 April 2021

Atos announced a contract with Bureau Veritas, a global leader in testing, inspection and certification, to provide advanced cybersecurity services to protect its 75,000 employees, 1,600 offices and laboratories in 140 countries. Atos manages the security operations to combat threats and cyberattacks with a Prescriptive Security Operations Center (PSOC) powered by a Threat Intelligence platform. The Group also ensures that some of Bureau Veritas' existing security tools are maintained in operational condition.

Bureau Veritas assists many clients throughout the world on key quality, health & safety and sustainability issues and must therefore ensure the **protection of its clients' sensitive data** that passes through its information systems.

In order to meet the security needs specific to Bureau Veritas' business, the solution implemented by Atos is based on a **prescriptive SOC** located in Europe and operating 24/7, equipped with the latest orchestration, prediction and automation technologies to prevent and remedy cyber threats. In the event of an incident, Atos' teams of security experts (CSIRT) are organized to react, investigate, and remediate incidents for a swift return to normal.

Atos' solution integrates an interconnected **Threat Intelligence** (TI) platform, a real investigation module that traces various internal/external information threads and continuously enriches the SIEM[1] with the latest information and alerts. Based on a risk model specifically designed for Bureau Veritas, the digital platform will improve threat detection, for example by targeting certain actors, regions, or users.

In addition, the solution deployed by Atos enhances the value of Bureau Veritas' existing tools by integrating them into a global solution that provides a comprehensive view of security and thus improves the organization's security posture.

*"We wanted a true cybersecurity partner with whom to work hand in hand to maintain the security of our systems, in a sustainable approach." said **Julien Anicotte, Group Chief Information Security Officer at Bureau Veritas.** "The Atos teams were able to adapt to the specificities of our organization and to our existing tools. They were able to implement an operational SOC very quickly, in line with our cloud approach, and will enrich it with new functionalities over the years."*

*"The complexity and sophistication of today's attacks continues to increase. Atos' prescriptive security model integrates the best technologies and offers superior performance and reliability to enable Bureau Veritas to face tomorrow's attacks and respond to its own clients' security issues." said **Chris Moret, SVP, Global Head of Cybersecurity Services and Deputy Head of Digital Security at Atos.***

In addition to setting up and operating a SOC, Atos teams also ensure that Bureau Veritas' existing security tools (proxy, IPS, gateway and antivirus as of 2021) are kept in operational condition.

Atos is a world leader in cybersecurity services, No.1 in Europe and No.3 worldwide. Atos has recently completed the acquisition of Paladion which adds detection and response capabilities to its offerings, while paving the way for the next generation of its prescriptive SOC. Over the past few months, Atos has also finalized the acquisition of digital.security, SEC Consult, In Fidemand Motiv.

 [Click here to return to Contents](#)

AVEVA And Petronas Strategically Partner to Deliver Digital Transformation

9 April 2021

Petroleum Nasional Berhad (PETRONAS), Malaysia's fully integrated oil and gas multinational, has partnered with AVEVA, a global leader in industrial software, driving digital transformation and sustainability, to provide a modern enterprise solution that promotes integration across the entire value chain.

PETRONAS selected AVEVA™ Unified Supply Chain in the cloud to enable simplified business processes and deeper collaboration, while reducing value leaks and sustaining productivity. As the only industrial software company that offers unified design applications across all supply chain activities, AVEVA's solution uses Enterprise Crude Knowledge Management, to drive Value Chain Optimization for the oil and gas industry.

Delivering Intuitive Software with Cloud High Performance Computing

The AVEVA solution will provide easy data management to deliver a single source of crude oil information that is easily shared across different teams and locations. The modern and intuitive software will eliminate the requirement for specific coding, drastically reducing the learning curve delivering high-performance computing and advanced data processing that will enable PETRONAS to run complex planning models at speed using the latest cloud technology.

“At PETRONAS, we are continuously looking to create value with disruptive technologies that offer optimum solutions. Utilizing AVEVA Unified Supply Chain software, we have been able to adopt a more integrated business process, that optimizes our productivity, allowing us to deliver with less,” said Mr. Yusri Yusof, Vice President of Refining and Trading at PETRONAS.

Transforming Organizational Operations and Improving the bottom line

AVEVA solutions have helped the 4 PETRONAS refinery and petrochemical sites improve safe operations while finding the best utilization for feedstock. The technology also ensures the resulting production plan matches the real plant optimization and reduces the gap between planning and scheduling, as well as actual refinery operations.

“AVEVA Unified Supply Chain software, part of AVEVA's Value Chain Optimization solution, presents a unique opportunity for organizations like PETRONAS to synchronize all business and operations activities across the supply chain from feedstock selection to planning, scheduling, operations and distribution,” said Harpreet Gulati, SVP Planning and Operations, AVEVA. “Our solutions are helping organizations to change the way they work and operate. We are delivering the digital transformation of PETRONAS' supply chain, by empowering its workforce to make better, more agile decisions with next-generation software that is enhancing the user experience as well as providing built-in collaboration, interactivity and advanced analytics.”

AVEVA's strategy is to help forward-thinking organizations like PETRONAS create a collaborative environment enabling the business to be managed in a comprehensive, flexible, and connected manner that brings transparency to the decision-making process across the value chain.

 [Click here to return to Contents](#)

Bharat Petroleum Collaborates with Accenture to Digitally Transform Its Sales and Distribution Network

13 April 2021

Bharat Petroleum Corporation Ltd. (BPCL) and Accenture are collaborating to transform India's second largest oil and gas company by digitally reimagining its extensive sales and distribution network. Accenture will use its capabilities in data, artificial intelligence (AI) and cloud technologies to build, design and implement a digital platform, called IRIS.

This platform will integrate real-time data from across BPCL's countrywide network, including more than 18,000 fuel retail outlets, 25,000 tank trucks, 75 oil installations and depots, 52 liquefied petroleum gas (LPG) bottling plants and 250 additional industrial and commercial locations, to provide a consolidated view of its extensive operations.

Driven by analytics based on AI and machine learning technologies, the IRIS platform will subsequently trigger automated alerts and actions, including rapid response to equipment failures or hazardous situations. It will also empower the BPCL workforce of more than 100,000 across the country to make faster and more accurate decisions, including preventative maintenance. This can help increase sales at fuel retail outlets by minimizing infrastructure downtime and ensuring consistent fuel quality, as well as improve the experience for customers.

By embedding intelligence in BPCL's sales and distribution network, Accenture is helping BPCL optimize its operational performance and efficiency, enhance security and safety and deliver a superior experience for its retail and commercial customers across the country.

Arun Kumar Singh, director (marketing and refineries), BPCL, said, "Digital transformation opens up new opportunities for the oil and gas industry. As an organization passionate about embracing change and leading the charge, we look forward to leveraging technology to unlock tremendous value, sustainable growth, and improved efficiency."

"With the deployment of this highly automated command and control platform called IRIS, we will not only bolster our digital capabilities significantly, but also improve customer experience and transform operations at scale. It will further ensure consistent and uniform delivery of BPCL's brand promises of innovation, care and reliability to our customers," said Rahul Tandon, head, digital transformation, BPCL.

The new platform will be capable of accepting more than three million inputs per second from automated sensors, cameras and Internet of Things (IoT) devices deployed at all key locations, tracking performance based on key parameters such as fuel stock, safety, compliance, equipment health and boosting asset uptime. BPCL's field workforce and partner network will have a seamless experience thanks to support from a portal, mobile app and call centers in Noida and Chennai.

The digital sales and distribution platform will use BPCL's cloud infrastructure, making it more agile and scalable.

"The future will belong to companies that purposefully combine advanced digital technologies with human skills and creativity," said Piyush N. Singh, India market unit lead at Accenture. "We believe our industry expertise and extensive digital capabilities can help BPCL drive the next wave of growth and gain a distinct advantage in the market. The powerful combination of human and applied intelligence

will facilitate transformative change to ensure BPCL's operations are safer, more secure and more efficient.”

 [Click here to return to Contents](#)

DB Schenker Innovates with Infor

14 April 2021

Infor, the industry cloud company, announced that global logistics provider DB Schenker has extended its investment in Infor technology. As part of a 15-year technology partnership, DB Schenker has chosen Infor Nexus Purchase Order Management and Infor Nexus Control Center as part of a programme to help deliver an industry-leading, end-to-end predictive estimated time of arrival (ETA) capability for customers.

As the first major logistics service provider (LSP) to invest in Infor Nexus Control Center, DB Schenker has already reported better predictive ETA accuracy compared to using carrier GPS-tracking data alone. Trials amongst early-adopter customers have reported industry-leading levels of reliability when predicting the date of goods arrival at final destination, from the point of the original purchase order being raised.

“We have developed a very strong digital agenda within DB Schenker,” said Joachim Schaut, DB Schenker vice-president, intercontinental supply chains. “As a leading global logistics provider, we recognise that we can drive huge innovation into the industry, and we are committed to a position of digital leadership. We now have an unprecedented window into processes that make up the complete end-to-end journey for our global logistics customers and can offer reliable intelligence for the arrival of goods.”

“As one of the first global logistics leaders on the Infor Nexus platform, DB Schenker has a history of innovation and collaborative partnership with Infor,” said Mark Illidge, Infor vice-president and general manager for supply chain in EMEA. “The ability to develop truly industry-leading predictive ETAs is yet another example of this partnership in action. Visibility into entire supply chain networks and the addition of in-context intelligence means DB Schenker can now offer customers that most precious of commodities — confidence.”

 [Click here to return to Contents](#)

Gavi Selects Accenture to Support Finance Operations for The Vaccine Alliance's COVAX Facility

14 April 2021

Gavi, the Vaccine Alliance, has selected Accenture to support finance operations for its COVAX Facility, a multilateral initiative with the aim of accelerating equitable access to COVID-19 vaccines around the world.

The goal of COVAX, which is co-led by Gavi, the Coalition for Epidemic Preparedness Innovations (CEPI), and the World Health Organization (WHO), is to distribute two billion COVID-19 vaccines by the end of 2021. With operational excellence critical to this ambition, Accenture will enhance the agility and rigor of Gavi's operations with the support of its finance specialists.

“The scale and urgency of the COVAX mission calls for exceptional operational agility to manage what

CIMdata PLM Industry Summary

has become one of the largest and most complex undertakings ever in global health,” said Aurélia Nguyen, managing director of the Office of the COVAX Facility. “With our colleagues at Accenture, we will expand our capacity to allow COVAX participants and partners to plan and manage with greater efficiency and accountability, supporting our goal of global equitable access to COVID-19 vaccines.”

As part of the initiative, Accenture will work with Gavi to define the right operating model and standardized processes for working across alliance partners, manufacturers, governments and other organizations. Accenture will also support grant accounting, financial planning, budgeting and management reporting with its specialists enabling Gavi to adjust and scale capacity as demand changes.

“We are honored to bring our finance expertise and operational services in support of Gavi’s mission of delivering efficient and equitable access to vaccines,” said Manish Sharma, group chief executive of Accenture Operations. “No barrier should stand in the way of protecting as many people as possible from COVID-19, nor should it prolong the devastation that the pandemic has left in its wake. We are proud to support the growing needs of the COVAX mission.”

As the initiative progresses, Accenture and Gavi will also team to enhance operational rigor across service management and governance processes to improve transactional-level quality, performance monitoring and visibility across enterprise processes. Today’s announcement is the latest step in Accenture’s effort to help organizations pivot to future-ready operations, transforming how work gets done across technology, processes and people to boost efficiency and speed to value.

COVAX is a global, multilateral initiative with the aim of accelerating the development, production, and equitable access of COVID-19 vaccines. It is co-led by Gavi, the Coalition for Epidemic Preparedness Innovations (CEPI), and the World Health Organization (WHO) and works in partnership with developed and developing country vaccine manufacturers, UNICEF, the World Bank and civil society organizations

 [Click here to return to Contents](#)

H3C Semiconductor and Ansys Innovate Next-Generation Network Processor Chip for High-end Routing, 5G Backhaul, AI and Cybersecurity Applications

14 April 2021

H3C Semiconductor leveraged Ansys simulation solutions to launch ENGIANT 660, a highly sophisticated network processor chip that enables routing, AI, 5G backhaul and cybersecurity applications. H3C Semiconductor designers used Ansys’ cutting-edge multiphysics simulation platform to enhance product signoff efficiency, spur product development and pass stringent testing requirements.

To innovate a large-scale complex network processor chip for advanced processes, reduce development costs and solve a myriad of complicated design issues, H3C Semiconductor designers employed a broad spectrum of multiphysics simulation solutions. Ansys solutions empowered designers to perform comprehensive analysis of power noise, signal integrity, thermal reliability and structural dependability from chip design to signoff. This ensured the highly reliable processor chip met demanding design specifications and accelerated the development of chip, package and system.

By integrating Ansys simulations into their workflow, H3C Semiconductor designers cut hardware costs and substantially sped production of next-gen chips for routing, AI, 5G backhaul and cybersecurity applications. Designers used Ansys® Redhawk-SC™ with its cloud-native, elastic compute Ansys® SeaScape™ database to validate full-chip power integrity and slash analysis times by 10x.

CIMdata PLM Industry Summary

Additionally, they harnessed Ansys® SIwave™ to analyze signal integrity, leveraged Ansys® HFSS™ to optimize 3D electromagnetic performance and used Ansys® Mechanical™ and Ansys® Icepak® to solve difficult thermal and structural reliability issues.

“As enterprise customers rapidly develop high-end core routers, 5G backhaul, SDN/NFV, AI, Firewall and Load Balancing applications around the world, Ansys’ multiphysics simulation solutions for chip packaging systems address the thermal and structural reliability and power integrity challenges associated with large-scale chips,” said David Dai, vice president of engineering operations at H3C Semiconductor. “Collaborating with Ansys proved instrumental to our design team, which heavily relied on simulations to create ENGIANT 660, the first network processor chip independently developed by H3C Semiconductor.”

“Engineering new chips for exciting new routing, 5G, AI and cybersecurity applications creates complex power noise and electromagnetic, thermal and structural challenges that can only be overcome with simulation,” said John Lee, vice president and general manager at Ansys. “Our continued collaboration with H3C Semiconductor will drive new designs with increased confidence and help ensure first-time design success across their organization.”

 [Click here to return to Contents](#)

Malwee Group Selects Centric PLM as The Foundation of Their New Digital Architecture

13 April 2021

Malwee Group, one of Brazil’s leading companies in sustainable fashion, has selected Centric Software® and its Product Lifecycle Management (PLM) solution to enhance product design and manufacturing across its six distinct brands: Malwee, Malwee Kids, Malwee Liberta, Enfim, Carinhoso and Zig Zig Zaa.

Centric Software offers the most innovative enterprise solutions for retailers, brands and manufacturers looking to achieve strategic or operational goals through digital transformation. Its innovative PLM software empowers users to plan, source, design and develop a range of products, from apparel, footwear, sporting goods, furniture, home décor, cosmetics, luxury goods and food and beverage, all while minimizing costs, speeding time to market and driving innovation and efficiency across the product development chain.

Founded in 1968, Malwee Group employs nearly 4,500 employees who manage more than 25,000 multi-brand points of sale and 82 specialty brand stores throughout Brazil. The company balances style, innovation and sustainability to produce more than 35 million pieces of clothing each year. Faced with the challenges of a quickly shifting fashion market, the company realized a critical need to scale operations, moving beyond inefficient processes with fragmented and disconnected systems—digital transformation became a priority.

“A lot is said about digital transformation of manufacturing operations, like 3D modeling and computerized systems, but if the various systems are not integrated to allow data to flow in conjunction with business processes, and in line with business priorities, the organization as a whole will still be fragmented. By building bridges between these siloed systems, we’re able to eliminate a significant amount of rework, save time and resources, deflate costs, and mitigate errors in the process. We need a tool with a powerful enough scope to serve as the backbone of our digital architecture, where we can connect all the other systems. And we found the solution in Centric PLM,” explains José Isaías Cunha, Manager of Engineering and Industrial Intelligence at Malwee Group.

CIMdata PLM Industry Summary

“Today we are mature enough to realize that just having digital systems in place doesn’t make the company digital,” reinforces José. “It is necessary to have the mindset and a tool to accelerate transformation. With our product teams located in several cities across the country, including São Paulo City and Jaraguá do Sul, it was becoming a big challenge to establish a working connection between remote teams. So with Centric, we see a great opportunity to have one integrated workflow where information is unique, correct and shared between teams.”

The company is now at a critical point in the digital transformation process and much closer to achieving its goal of bringing product creation closer to the consumer. Malwee Group aims to optimize all stages of product ideation and development with consumer input so consumers can bring their insights and validate concepts. “We will leverage Centric PLM throughout the entire value chain, because the more we maximize the product lifecycle, the more adapted the product will be to consumers’ wishes and needs, which makes for a happier customer. We want to invert the relationship between products and consumers today, not just bring products to market and see if they work. Instead, we want to create products with consumers in mind, showing we offer what he or she really wants or needs,” says Cunha.

“This partnership with Centric is significant and strategic on several levels, as it provides a greater guarantee of product quality, remote collaboration between teams and suppliers, less waste of raw materials for a much more sustainable process, optimization of the intellectual capital of our talents and the high availability of product data to quickly and consistently feed our digital sales channels. With all of this, the consumer will be able to see a product’s features according to his or her preferences, enabling them to make the best decision at the time of purchase,” continues Cunha.

“We are very excited about this new partnership and honored to work with Malwee,” says Chris Groves, President and CEO of Centric Software. “We are sure that Centric PLM will prove valuable to Malwee Group’s digital transformation strategy, as it will allow us to get closer—and stay closer—to the consumer.”



[Click here to return to Contents](#)

MultiGreen Turns to Autodesk Construction Cloud to Build 40,000 Sustainable Housing Units

15 April 2021

Autodesk, Inc. announced MultiGreen, a real estate development and operating company specializing in attainable, sustainable and tech-enabled multifamily housing in high-growth and supply-constrained markets, has tapped Autodesk to help power its Workforce Plus™ initiative. MultiGreen will standardize on a host of Autodesk Construction Cloud solutions including BuildingConnected and BIM 360 to digitize and connect their processes, data and teams across all phases of the initiative, from design to operations.

Check out Autodesk Construction Cloud solutions

Workforce Plus is MultiGreen’s new plan to build 40,000 economically and environmentally sustainable tech-enabled housing units by 2030 across ten states in the U.S., including Arizona, Colorado, Idaho, Nevada, New Mexico, Oregon, Texas, Utah and Washington, as well as British Columbia. Designed to directly contribute to tenants’ quality of life, all multi-unit buildings in the Workforce Plus initiative will meet LEED, Green Globes, WELL and Fitwel certifications to promote health and wellness.

As the Workforce Plus initiative kicks off, MultiGreen will use Autodesk Construction Cloud to digitize

CIMdata PLM Industry Summary

and connect their processes throughout the project lifecycle. BuildingConnected will provide the MultiGreen team with increased transparency for trade partners working on the project, ensure compliance is integrated into the bidding process and mitigate risk by flagging potential specialty contractor issues during bidding.

Standardizing on Autodesk Construction Cloud's BIM 360 will allow MultiGreen to fully own and centralize the flow of information and BIM-rich data throughout the project — all from one common data environment in the cloud. Additionally, the company will use BIM 360's integration with the Embodied Carbon Calculator (EC3), which allows users to easily access, view and analyze material carbon emissions in the large model viewer. The MultiGreen team also uses Autodesk products such as Autodesk Build, Autodesk Takeoff, Revit and Autodesk Inventor, and plans to use Autodesk's recently announced digital twin solution, Autodesk Tandem.

“When you're embarking on a mission of this magnitude, it's important to make proactive investments – especially with technology,” said Levi Nass, director of development for MultiGreen. “We're driving this project from the concept and design phase all the way through project completion and day-to-day operations, so it's an enormous advantage to be able to manage everything in one central platform and in one common data environment. Autodesk Construction Cloud is providing best-in-class, holistic tools that give us full ownership of our data and provide valuable insights that we can then carry across the entire company.”

Sustainability at the core of every phase of Workforce Plus

MultiGreen works to promote a sustainable lifestyle for tenants in their buildings, such as fostering a culture of waste reduction and recycling in each community – and this sustainable mentality begins before ground is even broken. The company will deploy green building principles across the entire lifecycle of the Workforce Plus project, including:

- **Sustainable siting and material selection** – optimizing land use and development to reduce adverse impacts and minimize ecological footprint, reusing materials and using recycled and green construction materials to reduce material extraction, processing, transportation, solid waste and consumption.
- **Energy generation and efficiency** – establishing and monitoring performance targets that account for intended use, occupancy and other energy operations and incorporating renewable energy generators such as solar shading and rooftop solar panels.
- **Maximizing water efficiency** – reducing wastewater through optimized landscaping, integrated rainwater catchments, gray water recycling and wastewater treatment systems.
- **Designing with healthy living in mind** – standardizing health-conscious details like enhanced ventilation and thermal comfort, moisture control and daylighting. Each multi-unit building will also factor in proximity to schools, grocery stores, shopping malls, parks and other public spaces, entertainment and recreational areas, and fitness and health facilities.
- **Economically sustainable operations through environmental construction techniques** – maximizing energy efficiency techniques to produce lower carbon emissions. For instance, MultiGreen will use high-quality thermal performance materials for better insulation at a fraction of the cost of current solutions. Innovations like this make MultiGreen's properties more affordable to operate, both at the property level and for individual tenants, while reducing the overall impact on the environment.

“Our goal is to build environmentally sound, tech-forward housing for families who have struggled to

CIMdata PLM Industry Summary

enter the homeowner market. Our research shows these people consist of firefighters, nurses, teachers and others who have been essential both prior to and throughout the global health pandemic,” said Randy Norton, chairman of the board for MultiGreen.

“Workforce Plus isn’t about chasing yield, it’s about making a positive impact on the world. We knew we had to standardize and digitize our processes from start to finish to build better and more efficiently and being an Autodesk shop allows us to do just that. Autodesk is helping us lead the way, so we can establish best practices we hope other builders will follow.”

“Autodesk is on a mission to empower teams to build the new possible – and a big part of the new possible is ensuring sustainability is integrated into the built environment from the outset,” said Jim Lynch, senior vice president and general manager, Autodesk Construction Solutions.

“MultiGreen’s plan to create environmentally and economically sustainable housing is one with which we closely align. Autodesk Construction Cloud will enable MultiGreen to streamline workflows and have full ownership of their data, and we look forward to closely partnering with them over the next 10 years and beyond.”



[Click here to return to Contents](#)

Shell selects Polarion software from Siemens to digitalize and streamline global capital project data

15 April 2021

Siemens Digital Industries Software announced that Royal Dutch Shell has selected Polarion Requirements™ software as the foundation for managing and streamlining the flow of requirements across Shell’s global Capital Projects ecosystem. Shell will leverage Siemens’ Polarion to accelerate development of its digital enterprise as they further transition from document-centric communications to data-driven execution. This will improve the efficiency and flow of digital project data and integrated requirements throughout the Shell supply chain.

Shell is using Polarion, a contextual tool within Siemens’ Xcelerator™ portfolio of integrated software and services, to enable highly effective and transparent collaboration between its project development teams. The software connects Shell’s project teams as they apply Systems Engineering techniques to rapidly and efficiently gather, author, approve, manage, and audit requirements for complex systems across the entire project lifecycle.

“Shell invests billions of dollars each year in new capital projects, Powering Progress in the energy transition and working toward our climate target of being a net-zero energy emissions business by 2050, in step with society. We need trusted partners to do this – which is why we are working with Siemens on a robust, comprehensive and innovative requirements solution,” said James Haug, General Manager for Systems Engineering at Shell. “The Polarion Requirements software will be the lynchpin technology for advancing our digital enterprise. As we standardize on and deploy Polarion globally, we look forward to enhanced efficiencies and lower costs for Shell and for our supply chain and project ecosystems.”

Siemens and Shell worked collaboratively to ensure that the Polarion solution provided was configured to accelerate Shell’s digital transformation goals. The strategy involved atomizing corporate specification documents into data using Polarion to automatically create status reports, documents and workflows that subsequently improve the real-time availability of relevant standards content and requirements across the organization. As a result of the initiative, requirements previously managed in documents are now available as data to be modified and tracked, via a user-friendly collaborative

CIMdata PLM Industry Summary

interface, to support and deliver greater efficiency in engineering workflows across the project development lifecycle. Shell quickly expanded the use of Polarion to a substantial number of projects globally within the first year, following the technology's initial deployment.

“Siemens is pleased to help one of the world's foremost energy firms develop and deploy a modern, world-class digital enterprise based on the management and coordination of requirements data and other critical initiatives,” said John Nixon, Senior Director for the Energy & Utilities Industry at Siemens Digital Industries Software. “By implementing a unified approach to requirements management that connects all project development processes with their engineering artifacts, and improving the collaboration between the teams that originate, manage and review them, Polarion is helping Shell and its supply chain partners reduce their total cost of ownership, improve regulatory compliance, and accelerate time-to-value on assets.”

 [Click here to return to Contents](#)

Stewart Milne Timber Systems Selects IFS To Optimize Offsite Manufacturing

8 April 2021

With the construction industry's increasing focus on reducing both carbon footprints and build times, UK offsite timber frame manufacturer Stewart Milne Timber Systems decided to replace its legacy business system, which could no longer support its project-based business, with an industry-specific enterprise resource planning (ERP) solution from IFS.

To build greener, faster, and more cost effectively, the global construction industry is increasingly turning to offsite and modular construction methods. In England alone, it is estimated that 345,000 new homes are needed annually to keep up with demand. This is driving the need for innovative building systems brought to the market by manufacturers like Stewart Milne Timber Systems.

The company was running a legacy business software solution that could not fully support its long-term operational ambitions. Still highly reliant on paper-based, manual business processes and a multitude of data standards, Stewart Milne Timber Systems consulted several different sources to aid its decision-making.

With a goal to automate a considerable number of business processes and consolidate all data into a single source, Stewart Milne Timber Systems identified that a key ask for them would be a solution that offered a combination of robust industry-specific capabilities, such as project management, manufacturing, and a fully integrated finance and human capital management (HCM) solution, to support its growth. Following a competitive evaluation process, the company chose IFS over solutions from other providers.

Craig Thornhill, Finance Director at Stewart Milne Timber Systems, said, "We chose IFS because of the team's and the product's deep industry expertise and capabilities. IFS Cloud ERP will help us increase efficiency, stay on quality and reduce the lead-time, downtime and processing time associated with the manufacturing and installation of offsite systems. IFS is a central pillar in our digital transformation journey, which will help us work smarter, quicker, and greener."

Alan Laing, Managing Director, IFS UK and Ireland, added, “We are excited to be partnering with Stewart Milne Timber Systems providing them with our leading industry capabilities. These have been tested and fine-tuned through close customer collaboration with some of the most renowned names in the global construction and manufacturing sectors. With IFS's open architecture, Stewart Milne Timber

Systems will be able to expand their footprint to include new automation and robotic technology. We look forward to a long and mutually beneficial partnership.”

[!\[\]\(9b800325684b184be8e88ceef387e61b_img.jpg\) Click here to return to Contents](#)

TCS to Help Ericsson Digitally Transform its R&D Environment, Accelerate Development

8 April 2021

Tata Consultancy Services, a leading global IT services, consulting and business solutions organization, announced that it has joined forces with Ericsson, a technology leader in 5G and a leading provider of information and communication technology, to help the latter build and operate its cloud-based R&D digital workplace.

Ericsson has been at the forefront of innovation and continues to evolve next-generation network architectures to stay ahead of the curve. It chose TCS as its partner for its R&D environment transformation initiative that will enable anytime-anywhere secured access and automated availability of the development environment for Ericsson’s global R&D teams. TCS will leverage its strong contextual knowledge of Ericsson’s R&D and IT environments coupled with expertise in automation and cloud technologies to support globally distributed teams with on-demand, zero-touch and remote provisioning.

Further, TCS is launching a state-of-the-art 24 x 7 Command Center at Hyderabad, India. This new command center, powered by the TCS’ Business 4.0™ thought leadership framework and its unique Machine First Delivery Model (MFD™) based automation, will help accelerate Ericsson’s R&D and product development environment. The autonomous provisioning, configuration and plans for self-healing of the development environment aligns with Ericsson’s ambition to create a world-class R&D environment for its engineers .

“We take pride in partnering with Ericsson in this strategic R&D workplace transformation, which further strengthens the long-standing relationship between our two organizations. Engineering environments are very complex with heterogenous infrastructure, specialized tools and demand for customized engineering services, making it challenging to digitally transform such environments. TCS will leverage its contextual knowledge and deep industry expertise in digital transformations to help Ericsson in this journey,” said **V Rajanna, Global Head, Technology Business Unit, TCS.**

[!\[\]\(a0c20551745271d88e99b0e44767ed91_img.jpg\) Click here to return to Contents](#)

Product News

Aurigo Software and Autodesk Enable Design Collaboration for Capital Planners and Construction Manager

13 April 2021

Aurigo Software announced the next step in its series of planned product integrations with Autodesk to streamline the complex capital planning process for public agencies and private owners. Aurigo’s Masterworks platform will now connect to many of the Autodesk’s industry-leading design tools, including AutoCAD, Civil 3D, InfraWorks, and Revit. Masterworks users can visualize Autodesk design files stored in the cloud, mark them up during review processes, and send them for approval, ensuring that everyone has the latest version of a project’s plans at their fingertips.

CIMdata PLM Industry Summary

To make the most of every dollar invested in capital projects, planning and construction teams require cloud-enabled solutions that improve collaboration between office and field workers to reduce mistakes that lead to costly rework and schedule overruns. In April 2020, Aurigo and Autodesk announced a strategic alliance to provide a comprehensive set of cloud-based solutions for capital planning and infrastructure development.

Aurigo recently released a rich, bi-directional integration between Masterworks and PlanGrid, which is part of Autodesk Construction Cloud. In continuation of that effort, the integration with Autodesk's leading 3D building information modeling (BIM) technologies announced today will allow users to access design files stored in the cloud instantaneously. Users can seamlessly collaborate on those files, ensuring that the most accurate data is always available to project stakeholders.

In the future, Aurigo plans to extend its capability by allowing users to extract 3D model information into the project management process, including quantity takeoffs for bidding and tying contractor payments directly to models.

“Contractors and owners need accurate and integrated capital planning, design, and construction data to deliver complex projects on time and budget,” said Balaji Sreenivasan, CEO and founder of Aurigo Software. “Autodesk delivers the most comprehensive set of design capabilities in the industry and is used by owners and contractors worldwide. This latest integration between the two suites will enhance our customers’ ability to collaborate seamlessly with their consultants, ensuring accurate design information is always available, reducing project risk and increasing productivity.”

Both suites of products are widely adopted in the industry – Masterworks is used on over 40,000 projects across North America by Departments of Transportation, private owners, local and regional public works entities, and other infrastructure agencies. The Autodesk design tool suite provides industry-leading capabilities across the globe.

Customers using Masterworks and Autodesk can now link their project files across both cloud solutions. Capital planners and engineers at owner organizations will be able to review design information within their planning and construction management solution, Masterworks, without having to switch applications. This seamless experience across design files and models will enhance productivity and drive cost savings for the owner, consultants, and contractors. Additionally, owners and construction teams can easily reference and update an accurate plan for ongoing infrastructure operations and maintenance.

“Architecture, engineering, and construction technology is evolving to allow for continuous interoperability between systems, breaking down silos within and across organizations,” said Theo Agelopoulos, senior director, design and product delivery strategy, Autodesk. “Disrupted workflows hinder collaboration among stakeholders and force rework and workarounds, which costs time and money. This integration between Masterworks and Autodesk’s AEC design suite helps solve that problem across the entire capital program lifecycle.”

 [Click here to return to Contents](#)

Bentley Systems Brings Infrastructure Digital Twins to NVIDIA Omniverse

12 April 2021

Bentley Systems, Incorporated, the *infrastructure engineering software* company, today announced that it is developing applications using the NVIDIA Omniverse platform for photorealistic, real-time

CIMdata PLM Industry Summary

visualization and simulation of digital twins of massive-scale industrial and civil infrastructure projects.

Bentley Systems has extended the Bentley iTwin platform to integrate with NVIDIA Omniverse to provide a graphics pipeline for AI-enhanced, real-time visualization, and simulation of infrastructure digital twins. This integration allows engineering-grade, millimeter-accurate digital content to be visualized with photorealistic lighting and environmental effects on multiple devices including web browsers, workstations, tablets, and virtual reality and augmented reality headsets from anywhere in the world.

Bentley iTwin is an open, scalable cloud platform that enables engineering firms and owner-operators to create, visualize, and analyze digital twins of infrastructure assets. Digital information managers use it to incorporate engineering data created by diverse design tools into a living digital twin and align it with reality data, IoT data, and other associated data without disrupting their current tools or processes.

Bentley Systems CEO Greg Bentley said, “Visualization and simulation underpin many of the use cases for infrastructure digital twins. The collaboration of Bentley iTwin and NVIDIA Omniverse is delivering real-time, immersive 3D/4D experiences that will enable true-to-reality, physics-based simulation of even the largest and most complex infrastructure assets. GPU-computing is transforming the world of engineering and construction and promises to unleash the potential of AI for simulation and advanced analytics in infrastructure digital twins.”

“Modern infrastructure are magnificent feats of engineering. NVIDIA and Bentley share a vision of physically based digital twins – so accurate and realistically simulated that they will revolutionize everything from infrastructure design to operations,” said Jensen Huang, founder and CEO of NVIDIA. “NVIDIA Omniverse was built precisely to realize this vision – to create shared virtual worlds that are simulated with physical and photo realism. We are delighted Bentley is developing applications for infrastructure digital twins on NVIDIA Omniverse.”

Unmatched High-Fidelity Infrastructure Visualization

The combination of the Bentley iTwin platform and NVIDIA Omniverse provides an unmatched, high-performance user experience at a scale that had previously not been possible.

The integration of the capabilities of the Bentley iTwin platform and NVIDIA Omniverse enables users to virtually explore massive industrial plants and offshore structures as if they are walking through the infrastructure in real time, for purposes such as wayfinding and safety route optimization.

“The industry is moving in a positive direction toward more automated and sophisticated tools that improve client outcomes,” said Donna DeMarco, plant information modeling, Jacobs. “Jacobs is proud to partner with Bentley in leveraging tools like iTwin linked with NVIDIA Omniverse to achieve strong results for our clients.”



[Click here to return to Contents](#)

CENIT LAUNCHES 3DEXPERIENCE PLATFORM-SAP CLOUD INTEGRATION

12 April 2021

CENIT is extending the 3DEXPERIENCE platform-SAP integration portfolio and now offers the means for integrating cloud-based and hybrid implementations. Based on the open platforms by Europe’s two largest makers of business software, Dassault Systèmes and SAP, CENIT’s new integration solution and its matching consulting packages are a further step towards total digital consistency of enterprise-wide business processes.

CIMdata PLM Industry Summary

Be it structural transition, climate change or the pandemic – many manufacturing enterprises are faced with enormous new challenges. Their common goal: Finding the ideal balance between innovation, profitability, resilience and sustainability. The path to that goal must lead through fully digitalized horizontal and vertical integration of business processes. No matter whether this is achieved by ways of a single business platform or an optimized custom mix of several platforms – the key lies in creating integrated, consistently digitalized end-to-end business processes.

Solution closes gap for cloud-based and hybrid implementations

As an internationally leading IT provider of integrations for Dassault Systèmes' 3DEXPERIENCE platform and SAP's platform, CENIT is boosting the "Cloud First" approach of the two major software makers with its own high-performance solution. The "cenitCONNECT SAP Integration for the 3DEXPERIENCE Cloud" enables full-scale integration of cloud-based implementations. CENIT's new product therefore closes a gap that previous integration solutions have left open.

"cenitCONNECT SAP Integration for the 3DEXPERIENCE Cloud" now lets businesses assemble their very own blend of solutions – and more than that: It also permits the implementation within their individual system architectures, without any sacrifices in terms of end-to-end integration of data and processes.

Dedicated consulting packages to boost process efficiency

In developing the new solution, CENIT relied on the philosophy that a combined, integrated use of the 3DEXPERIENCE platform and SAP offers massive added value for continual business process development. In addition to the cloud integration solution, CENIT therefore provides its "Ready to Grow" family of consulting best practices, aimed at the resolution of key process questions, definition of solution design, and quick and efficient achievement of initial productive implementations. Examples include "Ready to Orchestrate" for cross-platform implementation of release and change processes, or "Ready to Individualize" for cross-platform variant and configuration management permitting customized small-batch manufacturing.

Process and data continuity between two worlds

"Ever since CENIT was founded in 1988, we have pursued the goal of long-term collaboration. We consciously entered into partnerships with the leading software providers Dassault Systèmes and SAP and have built up significant sales volumes with their solutions. This lets us continually invest in our technology expertise on the two portfolios, giving us a basis for creating superior partner solutions," says Kurt Bengel, CEO of CENIT AG. "With the "cenitCONNECT SAP Integration for the 3DEXPERIENCE Cloud", we are taking a decisive, forward-looking step toward optimizing value-adding processes of customers who rely on the 3DEXPERIENCE platform and are also active in the SAP world", he adds.

Stéphane Declée, CEO, ENOVIA, Dassault Systèmes, said: "The 3DEXPERIENCE platform provides the world's largest portfolio available on the cloud for collaborative innovation for manufacturing enterprises. We enable companies of all sizes to embrace the Industry Renaissance, helping them to discover and engage in new business opportunities that create incredible value for their customers. Many of our clients also rely on SAP solutions and therefore expect a full integration of their cloud-based 3DEXPERIENCE platform with their SAP landscape. In CENIT, we have a partner who is at home in both worlds, offering a unique ability to deliver digital process and data continuity to our customers".



[Click here to return to Contents](#)

CGTech Announces 3DLive™ GDML Interface for VERICUT® Software

13 April 2021

CGTech has announced that its VERICUT software can now read in Geometry Description Markup Language (GDML) files with a new 3DLive Interface. GDML is an application independent geometry description format based on XML.

3DLive is available in MachiningCloud for products that require kinematics such as Machine Tools and Workholding devices. MachiningCloud has traditionally been known for the ability to provide 3D models of cutting tools for use in VERICUT and other related CAD/CAM and simulation software. DMG MORI, HAAS Automation, Mazak, Kennametal and KURT Workholding are among the first to supply GDML machine tool, driven turret units and fixture models to MachiningCloud.

VERICUT is the first software of its kind to support the import of 3DLive files for use in verifying, simulating and optimizing NC programs. This enhancement provides VERICUT users the ability to read in 3DLive data for CNC machines, workholding fixtures and cutting tool holders for use in simulations. This eliminates having to measure and model the components by traditional means or request 3D models from the machine tool builder.

“What has traditionally been a challenging and time-consuming procedure to obtain machine specific information and manually build digital twin machines, can now be done quickly and easily in VERICUT using the new 3DLive interface to read information-rich geometry data,” says Gene Granata, VERICUT Product Manager.

The 3DLive catalog in MachiningCloud currently contains over 8,700 products. 3DLive files contain kinematics, travel limits, minimum and maximum feed rates, initial machine location and 3D geometry colors in a single file format. This data can be read into VERICUT in a matter of seconds. 3DLive fixtures can be utilized to exactly represent the workholding setup in a VERICUT simulation. These fixture models sometimes contain axis movement (I.e. vise models that open/close). Additionally, 3DLive tool assembly holders can be read into VERICUT’s Tool Manager.



[Click here to return to Contents](#)

Cloud Editions 21.2 Enables Organizations to Grow with OpenText

14 April 2021

OpenText™ announced the release of OpenText™ Cloud Editions (CE) 21.2. The release was unveiled at OpenText World Europe during the opening keynote from OpenText CEO & CTO Mark J. Barrenechea.

“The past year has shown the importance of digital transformation for organizations of all sizes,” said Barrenechea. “Cloud Editions provide customers with flexible deployment options and secure, purpose-built solutions to support modern work, connect to global commerce, and engage their customers in new ways. With the innovations in CE 21.2, customers will be able to accelerate growth and stay ahead of the competition.”

OpenText Cloud Editions empower 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

CIMdata PLM Industry Summary

Information Management journey. New features, use-cases and enhancements are delivered quarterly. “Cloud technology enables organizational agility, virtual operations, business continuity and transforms Ashghal into a modern, intelligence-driven organization,” said Abeer Faleh S F Al-Hajri, CIO, Public Works Authority, Ashghal in Qatar.

Abdulla Amiri, the CTO & CIO Advisor added “OpenText is a one-stop shop when it comes to information management as an end-to-end strategy, helping Ashghal deliver services faster to consumers.”

New Cloud Platform for Content Services

Anchoring CE 21.2 is a new Content Services platform to power modern work in the cloud. OpenText Core Content and OpenText Case Management are multi-tenant cloud offerings that are quick and easy to deploy and can be tailored to address unique line of business, departmental, and industry needs.

Built to connect content to the systems and people that need it, Core Content integrates with business applications that customers already use, including a deep integration with SAP S/4HANA® Public Cloud. Core Case Management is a no-code SaaS application that manages unstructured and complex processes to enable smarter and quicker case resolution and improved customer and employee experiences.

By combining content management, case management and integration into lead applications, the solution delivers a unified approach to managing an organization’s content lifecycle in context of its formal and informal business processes.

There are also significant updates across each of the OpenText Clouds.

The **OpenText Content Cloud** empowers modern work by improving user productivity, process stability, and providing solutions to assist with regulatory compliance. In addition to Core Content and Core Case Management, key innovations in CE 21.2 include:

- Core™ for Federated Compliance expands governance to Microsoft Office 365 to help organizations manage records policies and compliance across OpenText and Microsoft repositories simultaneously, including SharePoint and OneDrive.
- OpenText™ eDOCS improves user productivity with smart profiling to automate classification of content.
- OpenText™ Axcelerate™ speeds review for eDiscovery and investigations with faster data ingestion, enhanced culling, and enhancements to chat review.

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. Key innovations in CE 21.2 include:

- More than 60 new SAP S/4 HANA® API connectors for OpenText Trading Grid enable companies to accelerate SAP ECC related migration projects. Trading Grid also strengthens self-service testing capabilities for accelerated partner onboarding.
- OpenText™ Active Invoice with Compliance helps organizations meet e-invoice country-specific tax and business regulatory compliance with validation needed.
- OpenText IoT platform introduces mobile device provisioning for fast IoT device onboarding and new exception management dashboards to flag real-time events and streamline management of large device groups.

The **OpenText Experience Cloud** provides a single platform to deliver modern engagements across the

CIMdata PLM Industry Summary

customer journey. Key innovations in CE 21.2 include:

- OpenText™ Exstream now features new AI services that support compliance, rationalization and efficiency by simplifying template maintenance, rationalization, and migration of document templates and content from other CCM solutions to Exstream.
- OpenText Media Management introduces new capabilities for seamless collaboration, including video mark-up and annotation, the ability to preview 360 Spin Sets and intelligent asset recommendations.
- A new integration between CX-E Voice and Microsoft Teams Phone System facilitates a smooth transition to a mixed Unified Communications (UC) deployment.

The **OpenText Security & Protection Cloud** strengthens cyber resilience by helping organizations to better secure sensitive information, find evidence faster, reduce risk, and detect and respond to cyberthreats. Key innovations in CE 21.2 include:

- Enhancements to OpenText™ Encase Forensic help investigators and examiners identify hard-to-find evidence faster and includes support for social media artifacts and Optical Character Recognition (OCR).
- OpenText™ EnCase Information Assurance (formerly EnCase eDiscovery) provides a streamlined user experience and improved user workflows through its new web application. Customers can collect data from Microsoft Teams through a new connector.
- OpenText™ EnCase™ Endpoint Security embeds BrightCloud® Threat Intelligence Web Classification and Web Reputation Services. BrightCloud leverages historical and contextual data collected from over 283M real-world endpoints to help users quickly and accurately identify and remediate threats and malicious websites.
- An updated management console for Webroot® Business Endpoint Protection (WBEP), targeted at Managed Service Providers (MSPs) and Small and Medium Businesses (SMBs), streamlines common management tasks.

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. Key innovations in CE 21.1 include:

- Strengthened administrative capabilities for tenant management and simplified authentication for cross-service API service calls. This includes security and ease of use features that continue to enhance the overall developer experience.

Underpinning each of the clouds are OpenText Advanced Technologies. OpenText Magellan provides pre-built AI and ML components that can be individually deployed, and the OpenText AppWorks platform enables business and technical users to rapidly build applications that improve efficiency, optimize employee skills, and provide insights. Major enhancements in CE 21.2 include:

- Magellan Data Science Notebook offers augmented AI with ML models, which can be built through the SciKit-Learn framework. ML Models can be published as a REST API service and managed through a new, intuitive Magellan ML Model Management tool.
- Magellan Text Mining introduces composite AI, enabling multiple models to leverage metadata from one another to deliver more accurate analysis of AI powered annotations, such as PII recognition or sensitive content classification.
- OpenText™ Contract Center delivers enhanced full-text search capabilities for contract metadata

and simplifies authoring to improve usability.

- Security, performance and usability improvements to the AppWorks platform, including a new import utility for AppWorks Case Accelerator to enable administrators to quickly implement Quick Start packages for faster time to value.

Additionally, new managed cloud services are introduced for OpenText Output Transformation Server (OTS) and OpenText Document Accessibility to reduce costs and free up resources by providing the expertise required to manage cloud solutions.

Solutions Built to Address Unique Industry Requirements

With Cloud Edition 21.2, OpenText has also released three new industry solutions that are targeted to support specific customer needs:

- Remote Access for Energy and Manufacturing from OpenText™ provides real time, synchronized access to relevant technical content stored in a central repository. The solution offers employees in both the energy and manufacturing sectors immediate access to the latest versions of key documentation from their mobile devices.
- Digital Experience (DXP) for Retail Banking from OpenText™ helps retail banks create superior digital experiences by bringing relevant content to the core of every interaction with real-time contextual engagements based on customer activity, preferences, and priorities.
- Asset Intelligence Tracking for Manufacturing from OpenText™ provides insight into the location and condition of manufactures' assets to help reduce asset loss, improve logistics, and create efficiencies.

 [Click here to return to Contents](#)

Elysium - Release Announcement of CADfeature 16.0 M3

13 April 2021

Elysium has released CADfeature 16.0 M3.

Key Enhancement

- Increased feature translation success rate from Creo to NX along with other bug fixes.

 [Click here to return to Contents](#)

Health and safety training goes 4D for HS2

8 April 2021

Health and safety in construction is getting a much-needed boost courtesy of funding from HS2 via the UK's innovation agency, Innovate UK.

A new customisable online training tool is now in development by specialists in cloud-based Building Information Modelling (BIM) and digital twins, 3D Repo, in collaboration with 4D consultancy, Freeform, and Balfour Beatty Vinci JV.

The new tool will replace generic training videos and presentations with live walkthroughs of site-specific 4D (construction sequencing) visualisations based on existing BIM models that can be understood in any language.

CIMdata PLM Industry Summary

Generic safety training will be replaced by real-time, site-specific visualisations delivered via an easy-to-use cloud-based user interface. Health and safety aspects will be coordinated with the Health and Safety Executive (HSE) Discovering Safety Programme, to enhance opportunities for compliance and reusability across other contractors.

Funding for the new training system is provided through a Small Business Research Initiative (SBRI) innovation competition funded by High Speed Two (HS2) and managed by Innovate UK. The competition aims to deliver innovation that will drive project efficiencies and process for use during the design and construction phase of HS2.

Dr Jozef Dobos, CEO at 3D Repo said:

“Inductions and onboarding in UK construction are usually delivered using generic PowerPoint slides, pre-recorded videos and printed questionnaires. Our new training solution will enable site personnel to quickly and easily generate engaging site-specific induction materials that are easy to comprehend and therefore reduce accidents and near-misses through better quality training.”

Dan Fawcett, Head of Innovation & Transformation at Balfour Beatty Vinci said:

“Our number one priority is to be ‘Be Safe and Well’ when constructing HS2, and BBV’s work on 4D Constructability Reviews with 3D Repo to date is a great example of innovating to improve health and safety. Introducing further collaboration with Freeform and HSE to build on this work is yet another step forward in ensuring no injury, ill health or incident is caused by our work activities.”

James Bowles, Founder of Freeform, said:

“4D models use graphical and non-graphical project information including time, resource, and logistics management to create more predictable, robust plans and sequences. With 3D Repo, we are developing a novel online tool which allows for simple planning and visualisation of intricate tasks to improve health and safety not only on HS2, but for the entire construction industry.”

Using the power of the cloud, the new training system will also provide centralised tracking of induction performance with full audit trail and reporting to measure effectiveness.

Work on the new 4D health and safety tool began in March 2021 and follows on from a recent announcement about adoption of new SafetiBase 4D technology which allows workers to safely identify and resolve issues using immersive 360° screens.



[Click here to return to Contents](#)

Medidata Launches New Functionality to Enable Holistic Risk-Based Quality Management for Clinical Trials

12 April 2021

The launch of Medidata Risk Management, coupled with updates to Medidata Detect, round out a full suite of unified RBQM solutions, built on the Medidata Clinical Cloud™

Medidata, a Dassault Systèmes company, announces Medidata Risk Management, the latest addition to its Risk-Based Quality Management (RBQM) suite, a holistic group of solutions designed to streamline the adoption of proactive clinical operations oversight activities. These include centralized monitoring, reduced source data verification (SDV) and source data review (SDR), remote source document review, and implementation of decentralized trial activities.

RBQM practices enable clinical operations teams to remain flexible and agile within the complex environments of the ever-changing clinical development landscape. Available today, Medidata Risk

CIMdata PLM Industry Summary

Management is the foundational step to enable a comprehensive RBQM strategy. Built on the Medidata Clinical Cloud™ and fully integrated with Medidata's centralized monitoring tool, Medidata Detect, Medidata Risk Management supports sponsors and contract research organizations (CROs) as they identify critical data and processes, associated risks, and implement mitigation strategies as defined within ICH E6 (R2). And, with recent updates to Medidata Detect, now study teams can also compare site differences across all participants to easily uncover trends or anomalies and determine whether there are discrepancies in data collection or integrity to be investigated.

“The COVID-19 pandemic propelled sites, sponsors and CROs to adopt remote and risk-based approaches to assure the safety of trial participants, maintain compliance with good clinical practice (GCP), and minimize risks to trial integrity,” said Lisa MoneyMaker, vice president of Clinical Operations Technology at Medidata. “Our goal has been, and remains, to drive innovation and solutions in this space, so that we are able to support sponsors and CROs with the capabilities they need in their clinical operations toolbox — so that they are best able to support sites and patients.”

Instead of managing risk assessments in siloed spreadsheets, Medidata Risk Management's library of templates allows study teams to collaborate for greater efficiency. These templates include the TransCelerate Risk Assessment and Categorization Tool (RACT), a Medidata-authored COVID-19 Risk Assessment, and a Decentralized Trials template, authored and developed by the Association of Clinical Research Organizations (ACRO), that can guide companies on the specialized concerns and focus areas, as they move into the decentralized and virtual trial space.

Medidata Risk Management was built on the Medidata Clinical Cloud providing access to a suite of solutions to streamline data capture, data management, trial planning and management, and analytics. The solution adopts the Quality by Design (QbD) approach to monitor leading indicators of quality, including Quality Tolerance Limits (QTLs) and Key Risk Indicators (KRIs), prior to the start of a clinical trial. This proactivity ensures the defined risk control mechanisms are effective in mitigating the identified risks.

Risk Management integrates directly with Medidata Detect, so study teams can proactively monitor known risks and identify anomalies, trends, and even unknown risks earlier with real-time data flow and on-demand data updates. Detect uses the KRIs and QTLs from the Risk Management solution to develop issue management dashboards and provide visibility to anomalies that can be drilled into for additional details. Now study teams can proactively evaluate issues that fall outside the tolerable range to determine if corrective action is needed.

Medidata is driving technology to support excellence in trial execution, enabling companies to achieve digital oversight, which the company sees as the future of Clinical Operations. The goal is to help CROs and sites create efficiencies and prioritize patient safety, while the sponsors can invest in innovative solutions for worldwide health and streamline time to market.

Medidata is a wholly owned subsidiary of Dassault Systèmes, which with its 3DEXPERIENCE platform is positioned to lead the digital transformation of life sciences in the age of personalized medicine with the first end-to-end scientific and business platform, from research to commercialization.

 [Click here to return to Contents](#)

New Version of Trimble Earthworks Grade Control Platform Includes Support for Soil Compactors

14 April 2021

CIMdata PLM Industry Summary

Trimble announced Trimble® Earthworks Grade Control Platform version 2.4 with support for soil compactors. Trimble Earthworks for soil compactors is a GNSS-based, 3D compaction control solution designed to make soil compaction more accurate, faster and easier. Operators will experience the same intuitive, easy-to-use Trimble Earthworks software interface currently available for excavators, dozers and motor graders for improved productivity.

Compaction Control for Soil Compactors

Trimble Earthworks for soil compactors enables contractors to accurately control the compaction process, while reducing unnecessary passes that can result in over compaction. The platform makes the overall compaction process more efficient, with a higher level of accuracy and less rework. With soil compaction part of the extensible Trimble Earthworks platform, contractors can take advantage of shorter training times, less downtime and increased remote operator support in the field as well as benefiting from ongoing platform developments.

"Trimble Earthworks for soil compactors is easy to learn and more accessible for many different types of users because it leverages the intuitive Trimble machine control interface and applies it to soil compactors," said Scott Crozier, vice president of Trimble Civil Construction. "Adding this new machine type to the Trimble Earthworks platform gives contractors the ability to more easily manage their mixed fleets, train operators and manage jobsite data."

Improvements in material/surface lifts and layer management allow for more accurate data and easier data management. Office-to-field connectivity enables efficient communication and data transferring across the project. In the field and office, contractors can easily interpret the valuable productivity data collected from the machine, such as work previously completed versus work completed that day.

Pricing Flexibility

Trimble Earthworks for soil compactors features software licensing options at different pricing levels for budget conscious contractors. New infield design licenses for operators or 3D model-only licenses for increased functionality in the office make it possible for contractors to only pay for the features that they need.

Availability

Trimble Earthworks Grade Control Platform for soil compactors is now available globally through the worldwide SITECH® distribution channel.

 [Click here to return to Contents](#)

OpenText Announces New Content Services Platform to Power Modern Work in the Cloud

14 April 2021

OpenText™ announced OpenText Core Content and OpenText Core Case Management, the new content services platform from the global leader in information management.

"The future of the workplace is digital. Organizations today need digital business process solutions that are quick and simple to deploy, configure, govern, and use," said Mark J. Barrenechea, OpenText CEO & CTO. "Core Content and Core Case Management deliver the strong records management, case management, API's, and integration into leading applications that OpenText is recognized for – all delivered as a simple-to-deploy, multi-tenant cloud application."

Announced as part of OpenText Cloud Editions (CE) 21.2, OpenText Core Content and OpenText Core

CIMdata PLM Industry Summary

Case Management are multi-tenant cloud offerings that are quick and easy to deploy and can be tailored to address unique line of business, departmental, and industry needs.

Built to connect content to the systems and people that need it, Core Content integrates with business applications that customers already use, including a deep integration with SAP S/4HANA® Public Cloud. Core Case Management manages unstructured and complex processes. Whether opening accounts, processing claims, or maintaining property records – it is necessary to know who has the work item, what has happened, where the documents are, and what is needed to get work done.

By combining content management, case management and integration into lead applications, this solution delivers a unified approach to managing an organization’s content lifecycle in context of its formal and informal business processes.

The explosion of remote work and a hybrid workforce have increased the complexity and scope of organizations’ information management challenges. Per a recent IDC report, “Increasing demand for greater agility, speed, and flexibility ushers in a new breed of SaaS solutions purpose-built for a more distributed and connected enterprise.” *

“OpenText Core applications enable organizations to modernize and simplify complex information management challenges,” said Muhi Majzoub, Chief Product Officer at OpenText. “These applications are built to support modern work requirements and new business use-cases. OpenText Core Content and OpenText Core Case Management are the foundation for integrated multi-tenant solutions that deliver all the benefits of cloud, from reliability and scalability to security.”

Core Content and Core Case Management underpin the industry-leading portfolio of Core SaaS content services applications with foundational content management capabilities. The portfolio now includes: OpenText™ Core Share, OpenText™ Core Signature, OpenText™ Core for Federated Compliance, OpenText™ Core Archive for SAP® Solutions, OpenText™ Core Capture, OpenText™ Core for SAP® SuccessFactors® and more.

Barrenechea unveiled the new offerings during the opening keynote of OpenText World Europe, which brings leading Information Management experts together to explore the technology needed to support modern work, engage customers and communities, connect global commerce and stay ahead of the competition.

* Source: *IDC FutureScape: Worldwide Cloud 2021 Predictions, Doc # US46420120, December 2020.*

Oracle Helps Organizations Enhance the Employee Experience with Oracle Journeys

12 April 2021

Latest innovations in Oracle Cloud HCM enable HR teams to create and deliver personalized, AI-powered processes and support for employees

Oracle today announced a new platform to deliver a more intuitive, personalized, and streamlined employee experience within Oracle Fusion Cloud Human Capital Management (HCM). Oracle Journeys helps organizations create a one-stop shop for employees as they navigate all aspects of work and complete complex tasks. The new capabilities enable HR teams to create, tailor, and deliver step-by-step guidance to walk employees through events as diverse as onboarding, having a baby, returning to the workplace, launching a new product, or growing their career.

“With our homes doubling as offices over the past year, we’ve grown accustomed to the way technology improves our lives as consumers, and employees want that same experience at work,” said Chris Leone, senior vice president of development, Oracle Cloud HCM. “As offices reopen, it will be critical to

CIMdata PLM Industry Summary

provide consistent and positive experiences both in the office and for remote workers—but it doesn't stop there. Organizations need to provide guidance throughout an employee's entire career, from training to finding a mentor, returning to the workplace, and eventually traveling safely. Oracle Journeys will help HR teams provide value beyond traditional HR processes by tailoring unique experiences for their workforce."

Oracle Journeys guides employees through tasks and key milestones while delivering quick access to resources they need across HR and the entire organization. It also makes it easy for employees to take action as they move through various events. The new features in Oracle Journeys help HR leaders by enabling them to move beyond standard HR workflows to create personalized, step-by-step guidance for any task—be it personal, professional, operational, or administrative. By providing easy access to AI-recommended processes tailored to individual needs, the solution helps employees save time and improve productivity. The latest innovations within Oracle Cloud HCM include:

- **Journeys LaunchPad:** Delivers a single destination for employees to explore, launch, and share Journeys tailored to their needs. It can host any Journey applicable to an employee, assigned by their manager, or recommended by AI based on previous actions, events, or career progressions. For example, newly-promoted employees may see a New Manager Journey, those planning to return to the office may get prompted with a Return to Work Safely Journey, or those relocating to a new facility may receive a Relocation Journey and be guided through next steps—all directly within their LaunchPad. Employees can access and complete their Journeys on any device including desktop, mobile, chat applications, or Oracle Digital Assistant.
- **Journeys Creator:** Allows HR teams and managers to create, modify, and assign Journeys across the enterprise. HR leaders can access a library of pre-built Journey templates, which can be tailored to the unique needs of the organization, workforce, and individual teams. This allows Journeys to be designed to meet specific company requirements, policies, and brand guidelines—all within minutes and without the need for IT or any coding. Organizations can also adapt them to include cross-enterprise tasks, and create Journeys like Manage My Expenses or Launch a New Product. Available templates include Onboarding, Return to the Workplace, Parental Leave, Relocation, Illness or Injury, and Return from Leave.
- **Journeys Booster:** Helps integrate HR processes and other business functions such as finance, operations, and facilities management with third-party systems and external applications. This enables end-to-end process completion in a single experience, supported by the process automation capabilities of Oracle Process Cloud, with minimal coding needed. Journeys Booster automates requests and services across HR, IT, and other work systems and can also be expanded via HR Helpdesk when additional support is needed within workflows.

Supporting Quotes

"Employee experience is a critical, multi-disciplinary challenge and employee needs vary widely," said Josh Bersin, global HR industry analyst. "Companies desperately need easy-to-use, highly customizable platforms to design, measure, and integrate employees' digital lives. Offerings like Oracle Journeys are becoming the hottest part of the human capital systems market."

"The employee experience is easy to take for granted, but it pays dividends when invested in properly. Companies that make deliberate efforts to make tasks quicker and easier with positive experiences for their workforce will reap the benefits of increased satisfaction, engagement, and productivity," said R. "Ray" Wang, principal analyst, Constellation Research. "Customers seek the ability to manage their own journeys in their core HCM systems. This not only helps organizations better manage and grow their

workforce during challenging times, but also enables HR to serve as an innovation center for the entire business.”

“The needs and expectations of employees have changed drastically. Now more than ever, our workforce needs personalized guidance, support, and motivation,” said Jacely Voon, chief people officer, People Culture & Corporate Social Responsibility, Fujifilm. “Oracle Cloud HCM provides a single HR platform that allows us to better manage our teams and keep up with their evolving expectations. No matter what further changes we see in the workforce, we will be ready to deliver a positive employee experience for our 14,000+ team members across the region.”

[!\[\]\(f1c6cbc058dfea4ba2a2b55c6ed6b047_img.jpg\) Click here to return to Contents](#)

Release Announcement of ASFALIS EX8.3.4 – Elysium

16 April 2021

Elysium is pleased to announce the release of ASFALIS EX8.3.4.

Key Enhancement

Changed support of CAD versions

Import & Export Options	Versions added in EX8.3.4	Supported Versions
NX Plug-in (Import & Export)	NX 1953 Series	NX9 – NX 1953 Series
SOLIDWORKS Plug-in (Import & Export)	2021	2015 – 2021

[!\[\]\(2a730970869bd034df4f3492e902ed50_img.jpg\) Click here to return to Contents](#)

Software-centric Automation Transforms Consumer-Packaged Goods and Logistics Operations

13 April 2021

Schneider Electric, the leader in digital transformation of energy management and automation, released version 21.1 of EcoStruxure™ Automation Expert, its software-centric universal automation system. Adoption of the new technology is proving immediately beneficial for consumer-packaged goods, pharmaceutical and logistics enterprises.

Step-change advancements

“EcoStruxure Automation Expert v21.1 is an important milestone in our journey to help manufacturers achieve the step-change advancements possible with a digital-first approach to industrial automation,” said Fabrice Jadot, Senior Vice President, Next Generation Automation, Schneider Electric. “Today’s operations need to react quickly to fluctuating market and environmental dynamics and rapidly mitigate potential risks. By separating the hardware and software lifecycles, EcoStruxure Automation Expert enables automation applications to be built using asset-centric, portable, proven-in-use software components, independent of the underlying hardware infrastructure. This software-centric approach delivers unprecedented cost and performance gains and frees engineers to innovate by automating low-value work and eliminating task duplication across tools.”

CIMdata PLM Industry Summary

GEA is one of the largest technology suppliers for food processing and a wide range of other industries. The company focuses on technologies, components, and sustainable solutions for sophisticated production processes in diverse end-user markets where time to market and agility is essential. EcoStruxure Automation Expert greatly simplifies the integration between operational technology (OT) and information technology (IT) creating new agility for GEA and its customers.

“Bringing IT and OT together is our vision at GEA, and EcoStruxure Automation Expert is helping us deliver what we promise to our customers,” said Matthias Wiemann, Head of Automation and Controls - Automation Separation, GEA. “Working together on these projects with Schneider Electric and EcoStruxure Automation Expert provides us with the faster time-to-market and flexibility that critical industries like food and beverage and pharmaceuticals need.”

Master Systèmes, an industrial automation system integrator and Schneider Electric Master Alliance partner, is using EcoStruxure Automation Expert to increase the agility and flexibility of one of its cosmetic customer plants.

“EcoStruxure Automation Expert allows us to modernize legacy automation systems to an Industry 4.0 solution in a managed, low risk and agile way,” said Maurice Re, director of automation, Master Systèmes. “This is a game-changer for us. EcoStruxure Automation Expert’s advanced engineering tools will help us reduce the time to develop an application and supports easy integration of IT technologies, including predictive maintenance. This translates into faster time to market with an easier to maintain solution for our customers.”

Schneider Electric is also implementing EcoStruxure Automation Expert in its own Smart Distribution Center in Shanghai, China to reduce costs and improve efficiency.

Because the software is decoupled from the hardware, modifying the conveying line to adapt as flow requirements change is easier and more cost-effective. With EcoStruxure Automation Expert, identifying the root cause of failure and troubleshooting is four times faster. And with 45% less products on the error line, throughput is increased by 5.3%.

“EcoStruxure Automation Expert provides a smooth integration of third-party software so now we can seamlessly adapt our operations by reconfiguring our processes to increase throughput,” said Mourad Tamoud, Chief Supply Chain Officer, Schneider Electric. “Having a holistic view across the full system using one single point of reference increases our maintenance efficiency through faster failure identification and response in our Shanghai Smart Distribution Center.”

Next-generation technology

Among other advancements, EcoStruxure Automation Expert V21.1 includes: enhanced cybersecurity, diagnostics, discovery and commissioning features, and expanded libraries and language support.

In addition, improved integration with AVEVA System Platform ensures EcoStruxure Automation Expert customers can take advantage of AVEVA’s market leading software for supervisory, enterprise SCADA, MES, and IIoT applications with minimal engineering overhead. One study showed the EcoStruxure Automation Expert and AVEVA combination reduced engineering efforts by over 50%.

Universal automation

As the most sustainable corporation in the world and a global manufacturer with an end-to-end network of Smart Factories and Smart Distribution Centers, Schneider Electric is on a mission to make industries of the future eco-efficient, agile, and resilient through open, software-centric industrial automation. With the newest release of EcoStruxure Automation Expert, Schneider Electric urges manufacturing and process industries to embrace the benefits of universal automation, sustainability, and digitalization to

CIMdata PLM Industry Summary

boost global economic recovery through next generation industrial automation.

Universal automation is the world of plug and produce automation software components enabled by the IEC61499 standard.

“EcoStruxure Automation Expert is changing the game for industrial automation and demonstrates Schneider Electric’s commitment to universal automation,” said Jadot. “We continue to invite industrial developers everywhere to create their own software components and solutions based on the IEC61499 standard, which can easily interoperate with EcoStruxure Automation Expert.”



[*Click here to return to Contents*](#)