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## CIMdata News

### ***Free Webinar on How Product Lifecycle Views are Interrelated in a Weblike Configuration with the eBOM at its Center***

17 August 2021

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces an upcoming free educational webinar, “The Digital Thread is Really a Web, with the Engineering Bill of Materials at Its Center.” The webinar will occur on Thursday, 9 September 2021, at 11:00 a.m. (EDT) and will last for one hour.

The Digital Thread has been a core element of the PLM vision for decades. The concept of linking multiple representations of a product, each tuned to the needs of various creators and consumers along the lifecycle, is powerful, and commercial PLM solutions have advanced to a point where the enablement of the Digital Thread is technically possible.

The Engineering Bill of Materials (eBOM) is a principal lifecycle view. There are views of product intent from which it is created, views by which it is optimized, and other views by which it is realized and sustained. This webinar will describe the Digital Web of product views at the front end of the product lifecycle with the eBOM at its center. The webinar will also consider the architectural principles for designing this structure of views to enable collaboration between creators and consumers along the product lifecycle within an enterprise.

Attendees at this webinar will:

- Understand the basic concept of a digital thread as the progression of product representations or views created and consumed along the product lifecycle.
- Learn about the different product representations that are relevant to the various creators and consumers along the lifecycle.
- Learn the basic guidelines for designing the structure and content of these product lifecycle views to serve the needs of their creators and consumers.
- Gain an understanding of how product lifecycle views interrelate in a weblike configuration, with the engineering view (i.e., the eBOM) at its center.
- Understand how the structure, content, and relationships between views can be sophisticated or simple depending on the needs of the business

According to James Roche, CIMdata’s Director, Aerospace & Defense Practice, and the host for this webinar, “With recent advances in commercial PLM software, enablement of the Digital Thread is now technically possible. The concept is vast and inspiring, and the value potential is real. Leaders in many industries are pursuing Digital Thread strategies, often without a clear vision, and in many instances within or alongside digitalization, another vast and inspiring concept. Such initiatives are high risk. To be successful, Digital Thread initiatives must be pursued within a well thought out business-specific architectural framework.”

Mr. Roche has 35+ years of experience in transformation and IT enablement of product development and manufacturing processes. Before joining CIMdata, Mr. Roche was a PLM Practice Manager at CSC Consulting and A.T. Kearney. He was also at EDS, where he served as the chief architect for General Motors’ global engineering systems and as the head technical negotiator for strategic supplier contracts.

Anyone with responsibility or interest in product program integration, systems engineering, PLM

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program planning, digitalization, or the digital thread will find this presentation interesting.

During the webinar, attendees will have the opportunity to ask questions about the topics discussed. To find out more, visit: <https://www.cimdata.com/en/events/webinars/event/641-webinar-the-digital-thread-is-really-a-web-with-the-engineering-bill-of-materials-at-its-center>. To register for this webinar, please visit: <https://register.gotowebinar.com/register/6642561372053975568>.

## ***Safer Products with PLM and Digital Twins***

20 August 2021

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces an upcoming free educational webinar, “Complex Products Are Safer with PLM and Digital Twins.” The webinar will occur on Thursday, 23 September 2021, at 11:00 a.m. (EDT) and will last for one hour.

The historic validation processes driven by manufacturing robust, durable products are being augmented, even expanded, by the inclusion and expansion of applications that change after the product is in the customer’s possession. Product complexity is proportionally increasing with more embedded electronics and application software. Managing the risks within field upgrades can be improved with PLM, digital twins, and real-time data analytics. This webinar will show how effective data analytics combining digital twins (managed in PLM) with experience measures (IoT in the operations) will improve product safety.

Attendees at this webinar will:

- Learn how and why CIMdata’s PLM definition covers the complete lifecycle, including operations.
- Understand more about PLM market growth in electronics design, modeling, simulation, and foundry certification.
- Understand how an operational digital twin can put data in context, which in turn makes validation manageable.
- Learn why organizations need to change as products become services and how PLM can ease this evolution.

According to Craig Brown, a CIMdata Executive Consultant and the host for this webinar, “Based on CIMdata’s estimates, the global PLM market grew faster than CIMdata’s forecast for the calendar year 2020, especially in electronics design and manufacturing certification (e.g., requiring more Multiphysics simulations). Companies are benefiting from increased product use insights captured by sensors and their embedded electronics and software. This trend will continue to increase as functions move more and more into software, delivered throughout the lifetime of a product.”

Over his 30-year journey at GM, Mr. Brown was responsible for PLM Portfolio Planning and held assignments in embedded software, systems engineering, CAE Methods, and process improvement. He led engineering and IT teams developing tools to improve product and manufacturing engineering. These teams received patents, engineering awards, and records of invention, including using OnStar® to monitor and report vehicle diagnostics. Before joining GM, he spent 12 years in the Aerospace/Defense industry focused on control systems and tools to help develop systems for guidance, navigation and control, and signal processing systems. He was a member of the team that invented VHDL and led one of the first commercial tool applications. Mr. Brown has a talent for organizing across industry sectors to distill common requirements, which can help streamline tools and standards development.

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This webinar will be of interest to anyone who needs to understand how PLM will help improve product safety or who has a strong need to assure product safety relies more on computer-based methods and tools to assess and ensure robust product operations. Solution providers looking for the framework to help product developers manage the complete lifecycle will also find it helpful.

During the webinar, attendees will have the opportunity to ask questions about the topics discussed. To find out more, visit: <https://www.cimdata.com/en/education/educational-webinars/webinar-complex-products-are-safer-with-plm-and-digital-twins>. To register for this webinar, please visit: <https://register.gotowebinar.com/register/7753922436642530832>.

## Acquisitions

### ***Adapdix acquires Edge Intelligence to bring data and AI closer together***

16 August 2021

Adapdix, the industry leader in AI-powered automation software, announces that it has acquired Edge Intelligence, developer of the first geographically distributed data management platform for analytics built for both edge computing and hybrid cloud environments. Edge Intelligence's data management platform ideally complements Adapdix' EdgeOps™ AI/ML Data Mesh offering and will enable Adapdix to target additional new markets and expand its offering across the edge automation market. The combined EdgeOps and Edge Intelligence platforms will allow distributed AI and enterprise data management at the source of data creation. This enables Adapdix to offer true advantages of IT/OT convergence, cloud repatriation and federated learning for enterprises that have geographically dispersed data at the edge or in the cloud.

Anthony Hill, CEO at Adapdix, said, "Edge Intelligence has developed the leading distributed edge data management solution, with patented technology, and a sophisticated data analytics application targeting subscriber and cloud analytics. The addition of Edge Intelligence enables Adapdix to provide true IT/OT convergence, with full data virtualization, which for other providers is still only a theoretical concept. This acquisition allows Adapdix to address customers considering Cloud repatriation."

Kate Mitchell, CEO at Edge Intelligence, said, "AI and data are essential partners, and with Edge Intelligence's distributed database technology, Adapdix can now offer customers a single logical database for query and AI-powered analytics on IT and OT data. Edge Intelligence capability along with Adapdix Edge Ops AI and modeling platform allows for fully integrated, real-time AI at the source of data creation, which saves customers data transport, compute, and storage costs."

"Today, far too many AI/ML solutions are one-offs, with the capabilities simply provided as an add-on feature. However, for AI/ML to reach its full potential, it must be built into the technology platform," said Ritu Jyoti, Group Vice President, Worldwide AI and Automation Research at IDC. "With the acquisition of Edge Intelligence, Adapdix is further embracing this architectural shift by delivering a fully integrated platform for data ingestion, analytics, and AI/ML inference – while maintaining data at its source. By combining Edge Intelligence to the capabilities of their EdgeOps AI-powered automation platform, Adapdix is delivering on the promise of IT/OT data convergence."

Adapdix recently announced EdgeOps DataMesh™, the first product of its next-generation AI-powered automation software platform EdgeOps™ that overcomes the typical hurdles of real-time operational data management. The Edge Intelligence acquisition enhances Adapdix' DataMesh™ product with true distributed data management and allows users to query and store IT data along with their OT data. Performing data ingestion, pre-processing, and inferencing in milliseconds, EdgeOps DataMesh™

enables real-time analysis and control to improve operational efficiency and reduce downtime of highvalue assets. The software is already used by Fortune 500 customers, including several leading semiconductor manufacturers, to improve their operational performance

## Company News

### ***Aligning Value with Usage and Outcomes: Introducing Flex***

16 August 2021

Autodesk announces a new pay structure that will be available on September 24, 2021. This model allows companies and users to pay per use, no subscription necessary. The details are available on the Autodesk website in an article by Jeff Kinder. [Click here to read more.](#)

### ***Altium, IPC Education Foundation, and Arduino Announce Student Electronics Design Competition***

16 August 2021

Altium LLC, the leading printed circuit board (PCB) software company, is partnering with the IPC Education Foundation (IPCEF) and Arduino to launch the first student electronics design challenge to engage, educate, and enhance printed circuit board (PCB) design capabilities while developing STEM solutions to environmental challenges.

The Innovation for Environmental Change 2021 International Student Design Competition (#PCBeTheChange) engages student teams to help address common environmental concerns using Altium's educational tools with Arduino hardware.

Teams from high schools and colleges will be using Altium's Upverter Modular PCB design software and the Arduino Portenta H7 to create a prototype design that will improve the environment in each team's respective local area. The teams will be challenged to tackle one or more environmental concerns, such as air pollution, water quality and solar energy capture.

As Lotte Nørregaard Andersen, Head of Arduino Education, elaborates, "At Arduino, we believe that it is very crucial to empower scientists of the future to address common challenges of our time using technology. We're delighted to partner with Altium LLC and the IPC Education Foundation in the Innovation for Environmental Change 2021 International Student Design Competition; this competition really aligns with our goal of creating the next generation of STEM solutions."

Participating teams can enter the design challenge while harnessing Altium's Upverter Education training modules plus the Upverter Modular tool. Altium features multiple educational initiatives designed to support high school STEM teachers and students, along with programs to support college students and industry professionals.

"Students learning electronics design can get a comprehensive overview of how to design their own hardware with guided training in easy-to-understand modules. We're honored to support the next generation of electronics designers by providing the curriculum and tools students need for the contest," adds Rea Callender, Vice President of Upverter Education.

Winning teams will be eligible to win cash prizes for each category: high school and college: \$1500 (1<sup>st</sup> prize), \$750 (2<sup>nd</sup> prize) and \$500 (3<sup>rd</sup> prize), free access to IPC APEX EXPO in San Diego, CA from January 25-27, 2022 as well as virtual access to AltiumLive 2022 CONNECT, co-located alongside the IPC APEX EXPO at the San Diego Convention Center. Designs will be featured on display at the IPC

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Design Booth; awards will be presented at the IPC APEX EXPO STEM Outreach Event.

Charlene Gunter, Senior Director of IPCEF shares, “We believe that opportunities and experiences like this will allow students to gain awareness and access to the electronics manufacturing industry and in turn help them reach their career goals. This collaborative partnership with Altium, Upverter Education, and Arduino showcases our mutual goals of engaging and educating students in PCB design, and we look forward to seeing the creativity and solutions the teams will create.”

Open registration is available via Upverter Education for the design challenge beginning on Monday, August 16<sup>th</sup> and runs through Friday, October 1<sup>st</sup>; team designs must be received online by Friday, November 19<sup>th</sup>. Competition winners will be announced on Friday, December 17<sup>th</sup>, followed by virtual presentations for the first place, and runner-up entrants.

## ***AVEVA Accelerates Sustainability Leadership with Emissions Reduction Target Aligned to Business Ambition for 1.5°C Criteria***

16 August 2021

AVEVA, a global leader in industrial software, driving digital transformation and sustainability, announced that it has committed to setting 1.5°C-aligned emission reduction targets across all three Scopes as part of joining the Business Ambition for 1.5°C campaign. The announcement was made during a meeting at AVEVA’s London office attended by Kwasi Kwarteng, UK Secretary of State for Business, Energy & Industrial Strategy. The move affirms AVEVA’s commitment to set both short and long-term targets that are in line with the most ambitious aims of the Paris Climate Agreement and reflects a science-based approach to climate action.

“As outlined by the global scientific community in last week’s Intergovernmental Panel on Climate Change report, the window we have to take action on climate is closing fast,” said Peter Herweck, AVEVA CEO, at the meeting. “We have joined Business Ambition for 1.5°C because we are deeply committed to being part of the solution to the climate crisis, both through the industrial software that we make to support our customers on their digital journey and in the daily actions that we take to run our own business. By working together with our customers, partners, and other key stakeholders such as the UK Government, we believe we can create an inclusive net-zero economy in line with the 1.5°C pathway.”

Business and Energy Secretary Kwasi Kwarteng commented, “It’s great to see companies like AVEVA committing to tackling climate change and joining the Race to Zero and the Business Ambition 1.5°C campaign. As a country, eliminating our contribution to climate change by 2050 simply will not be possible without business playing its part and I urge other companies to follow suit and sign up without delay.

“Advanced technologies have a major role to play in cutting emissions, while at the same time boosting investment and creating new green jobs. It was fantastic to see first-hand how AVEVA is supporting its many customers across the world to transition to a clean, green way of doing business and to seize the myriad opportunities that this brings.” Secretary of State Kwarteng said.

Business Ambition for 1.5°C is a global alliance led by the Science-Based Targets initiative (SBTi) in partnership with the UN Global Compact and the We Mean Business coalition. It aims to prevent the worst impacts of climate change and avoid irreversible damage to our societies, economies, and the natural world by limiting global temperature increases to 1.5°C above pre-industrial levels. Reaching that goal requires halving greenhouse gas emissions by 2030 and hitting net-zero emissions by 2050 worldwide. Over 600 companies representing more than \$13 trillion in market capitalization have signed

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up to the Business Ambition for 1.5°C initiative so far. It is widely recognized as the gold standard for corporate climate action.

“Achieving the targets will not be easy,” added Herweck. “However, we are confident that through a smart combination of implementing energy reduction measures across our offices, procuring renewable energy, and engaging with our suppliers and customers on climate action, we can greatly reduce our overall emissions with minimal reliance on carbon removals. The majority of our UK facilities, including London, Cambridge, Chesterfield and Manchester, are running on clean power and we are actively working to increase our renewable energy sourcing globally.” In the US, AVEVA’s California facilities, in Lake Forest, San Leandro and Carlsbad, have already switched to a green tariff.

Beyond making changes to accelerate AVEVA’s own use of renewable energy, the company’s software solutions enable many customers across the world to decarbonize and speed up the transition to a net-zero emissions economy. By enabling energy savings, emissions monitoring and mitigation, materials efficiency, waste reduction and supply chain optimization, AVEVA solutions support more sustainable industries.

AVEVA already contributes to a number of corporate sustainability initiatives that bring together companies to help tackle climate challenges collectively, including BSR, the UN Global Compact, and the Renewable Energy Buyers Alliance (REBA). In signing on to the Business Ambition for 1.5°C commitment, AVEVA is also pleased to be joining the UNFCCC Race to Zero.

This latest climate pledge is aligned to AVEVA’s goal of showing that a 1.5°C-compliant business model is possible ahead of COP26 in November when governments and industries will strengthen their contributions to the Paris Agreement and to tackling global warming. It also reflects AVEVA’s culture of collaboration and its commitment to working with stakeholders across the value chain to help safeguard the planet for coming generations while advancing the net-zero industries of the future.

## ***Campfire Interactive Recognized as one of America’s Fastest Growing Companies***

18 August 2021

Campfire Interactive, Inc. (Campfire), the leading provider of portfolio profitability management in the automotive sector, announces that the company has been recognized as one of America’s fastest growing private companies. Named to Inc. magazine’s Inc. 5000, Campfire joins an elite list of organizations identified as having demonstrated exceptional growth and success.

Globally, automotive suppliers are challenged with complex business issues while creating, managing, and executing profitability plans. Campfire provides a highly reliable, scalable, cost-effective, cloud-based, end-to-end solution to unlock profit potential. Suppliers have been quick to embrace Campfire solutions to better ensure maximum profitability. Since its inception, the company has grown steadily in terms of new business, staffing, and revenue. Over the past year, Annual Recurring Revenue growth of 50% has been recorded - all despite a global pandemic and severe supply chain challenges within the auto sector.

In recent months, Campfire announced collaborative agreements with such respected organizations as Plante Moran and Amazon Web Services (AWS) further enhancing its solutions while offering the capacity to reach and support more customers. Today the company continues to aggressively explore additional strategic partnerships.

“We’re naturally honored and equally excited to be named to the Inc. 5000,” said Campfire President & CEO, Pradeep Seneviratne. “The fact that this milestone was reached within a year of securing RKCA (Cincinnati, OH) equity capital is a testament to our people, leading technology, and the relationships

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we've cultivated. Aligning ourselves with likeminded companies that share our values, vision, and passion for technical excellence is key. And while we're thrilled with how far we have come in a relatively short period, we're even more excited about the future. Looking forward, we are well positioned to provide the world's automotive sector with practical profitability solutions while supporting higher growth and demand for Campfire software."

Market conditions have put an emphasis on a supplier's ability to forecast their business rapidly and accurately while remaining responsive to new opportunities. Campfire provides a highly effective software system for suppliers to quickly respond to RFPs and deliver accurate sales quotes to customers in pursuit of profitable business.

According to Campfire, COO, Dan Meyer, the company's strong brand is translating into record growth and a healthy bottom line.

"We are on track to secure a dozen new contracts in this quarter alone," said Meyer. "Responding to this demand has allowed us to bring on additional resources. In fact, over the past 12 months we've essentially doubled the size of the Campfire team."

From a financial perspective, Meyer attributes this growth largely to a healthy mix of new customers and expansions with existing customers. "We're always excited to add a new customer to our growing user base," said Meyer. "But something we're equally proud of is a 100% renewal rate among existing subscription and maintenance customers. This reaffirms the value that we are delivering to the automotive supplier industry."

Campfire advisor and retired CEO of Yazaki North America with over 30 years in automotive electronics, George Perry, believes that the demand for Campfire, as an affordable tool for managing dispersed global processes and data throughout an extended enterprise, will only grow.

"The automotive industry remains in the midst of some very challenging times," said Perry.

"Electrification, globally distributed suppliers, drastic consequences of material, component, and workforce shortages – these and other obstacles are very real and very serious. Campfire provides the visibility and real-time access to information that allows suppliers to make sound, informed decisions. There is no mystery as to why a growing number of automotive industry suppliers have adopted Campfire technology. My only regret is that I didn't have access to this kind of a tool while serving as a CEO."

## ***DXC Technology Names Chris Drumgoole Its Chief Operating Officer***

19 August 2021

DXC Technology announced that Chris Drumgoole has been named Executive Vice President and Chief Operating Officer (COO), reporting to Mike Salvino, DXC President and CEO, effective immediately. Drumgoole joined DXC as Chief Information Officer (CIO) in March of 2020.

As COO, Drumgoole will have primary accountability for driving DXC's day-to-day business operations, while supporting change management aligned with the company's overall transformation journey. He will assume responsibility for DXC's business and administrative operations including global supply chain, integrating the full procure-to-pay lifecycle to improve our partner ecosystem, while maintaining oversight for DXC's IT strategy, operations, and infrastructure.

"In a short amount of time, Chris and his team have made a significant impact at DXC, from simplifying our IT infrastructure to enabling our global workforce to be fully operational and work virtually during the COVID-19 pandemic," Salvino said. "In his new role, Chris will drive efficiency in our operations,

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deliver better employee experiences to drive up our employee Net Promoter Scores, and ensure that we deliver on our cost reduction and margin expansion targets. As Chris expands his leadership of our day-to-day company operations, I look forward to spending even more time with our customers and colleagues on our growth agenda.”

“As a team, we have accomplished a great deal,” Drumgoole stated. “Going forward as COO, my focus will be to further enhance the productivity of our workforce, simplify and streamline operations and processes, and ensure clarity and accountability while meeting our margin objectives.”

Drumgoole has more than 20 years of experience in the digital and information technology industry. As CIO at GE, Drumgoole led the company’s global technology operations, including applications, infrastructure, and related shared services. Drumgoole joined GE from Verizon, where he served as Chief Operating Officer of Verizon’s Terremark subsidiary, a cloud, hosting, and data center provider. He joined Verizon through its acquisition of Terremark, where he served as a member of the executive leadership team.

Drumgoole serves on the board of directors of PetSmart, where he is a member of the audit committee; on the advisory board of Florida International University’s College of Engineering & Computing; and as a member of the board of directors of ONUG, a forum for IT business leaders interested in exchanging ideas and best practices for open technologies. He studied management information systems (MIS) at Pace University in New York. Drumgoole is a volunteer with Year Up, an organization that provides mentorship and job opportunities to young people in urban areas.

## ***Friedhelm Loh turns 75 – entrepreneur, encourager and visionary in the progress of digital transformation***

16 August 2021

**He is driven by curiosity about new things: He is Honorary President of the German Electrical and Electronic Manufacturers’ Association (ZVEI), Honorary Professor of the State of Hesse, and has an Honorary Doctorate from the Technical University of Chemnitz. He is in demand on the European political stage when it comes to digitalisation issues and is driving trends and innovations in the marketplace. In addition, he is a passionate mover and shaker and the owner of a globally active family business with 11,600 employees, is socially committed in a variety of ways and a dedicated Christian. Friedhelm Loh – as an entrepreneur and a human being – is all these things. Today he turns 75; he is active in every field that one could (or could not) imagine.**

Entrepreneur, encourager and visionary in the progress of digital transformation. Today, Professor Friedhelm Loh is 75 years old.

Professor Friedhelm Loh has received the highest recognition for his success and commitment – from the top levels of business and politics and far beyond Germany's borders. Through his personal achievements, his top political honours and great entrepreneurial courage, he has nevertheless remained – as he says himself – a “simple worker” and above all: grateful. Although he sees himself as an entrepreneur, he combines a love of the region, an eye for people and – together with his wife Debora – shares responsibility for the weaker members of society.

### **The role models**

Friedhelm Loh grew up with his two siblings in a family of founders. In 1946, as young people, his parents made courageous decisions in founding “Rudolf Loh GmbH Metallwarenfabrik”, and they worked hard to pursue their goals relentlessly. “They were role models for us children as they lived the Christian faith while taking on responsibility and acting as entrepreneurs. That left its mark on me,” he

says, looking back on those times.

## **The inventor**

New technologies have always fascinated him – and they still do: “I am attracted by opportunities to make what is good today even better tomorrow,” Friedhelm Loh says. He sees these opportunities in hardware developments for electrical engineering such as enclosure systems, software for electrical engineering in plant engineering, and in edge and cloud computing, such as Gaia-X, the European initiative for data sovereignty, which he co-founded. Friedhelm Loh took over the company in 1974 when it had around 200 employees. Today, 11,600 people working worldwide in the Friedhelm Loh Group in the Rittal, Eplan, Cideon, German Edge Cloud, LKH and Stahlo companies are helping him act as a driver in the industry. “We were able to receive the Diesel Medal, the ‘inventors Oscar’.”

## **The pioneer**

Professor Loh is a pioneer in digitisation and is aware of the enormous challenges this involves. “Innovating is back-breaking work – we experienced this when we established our Industry 4.0 plant in Haiger, where we have been manufacturing industrial enclosures since 2019.” That was because turnkey solutions for completely networked factories were not available off the shelf. “We dared to do it on our own and set up a production facility with artificial intelligence and data sovereignty along with German Edge Cloud, the Friedhelm Loh Group's latest subsidiary.” From beginning as a sheet metal working firm to becoming a digital company, that shows how we want to develop – today and in the future.

That fact that the Friedhelm Loh Group has reached its current position – with an annual turnover of €2.6 billion – is thanks to the management and all the employees: “They have done it. They follow unusual paths, face exceptional situations and are creative when it comes to innovations,” CEO adds.

## **Responsibility**

For Friedhelm Loh, social responsibility is not just an empty phrase – it is an intrinsic value. Bearing and assuming responsibility is part of the company’s DNA and is actively lived by the owner, his wife, his family and his staff. The Rittal Foundation plays a key role when it comes to social commitment. This charitable organisation has been supporting social, educational and cultural projects since 2011. Regular donations to regional, non-profit institutions or international aid organisations – made jointly with the employees – show that each individual counts. The group has donated over €5 million to good causes in recent years. “We all share a responsibility for the community in which we live and work,” the entrepreneur says.

## ***HCL APPOINTS NEW LEADER IN BRAZIL TO FUEL LATIN AMERICAN GROWTH***

19 August 2021

HCL Technologies (HCL), a leading global technology company, has appointed Fabiano Funari as the country head for Brazil.

Funari joined the organization to spearhead HCL’s growth for all industries and capabilities in Brazil, where HCL employs more than 800 people across its national headquarters in Sao Paulo and delivery centers in Sao Paulo, Sao Leopoldo and Curitiba. HCL services more than 30 clients across Brazil.

Funari has held leadership positions at various global technology companies. He has a successful track record in sales and service delivery and a deep understanding of the local marketplace, including its needs and unique characteristics. He brings digital transformation, cloudification and deep IT expertise, combined with 20 years of experience and passion in helping customers through the challenges they face

for continued competitive growth.

“I’m excited to lead and be part of HCL’s dynamic team in Brazil, a country that’s home to innovative firms eager for a technology company to provide world-class solutions,” Funari said. “With HCL’s presence in Latin America, we’ll be able to continue to deliver top services to new and existing customers.”

With Funari’s appointment, HCL continues to widen its global footprint, provide digital transformation services across all industries and add to its customer roster. Its existing customer base will also benefit from HCL’s expansion in Latin America at a time when global connection has become crucial.

HCL Corporate Vice President Anil Ganjoo will serve as the corporate sponsor for the region.

## ***Infosys Foundation USA Scales Online Learning Platform with Free Computer Science Modules for K-12 Educators***

17 August 2021

Infosys Foundation USA, a nonprofit dedicated to increasing access to computer science (CS) and maker education across the U.S., announced that it is adding four additional computer science modules for K-12 teachers to its digital learning platform, the Pathfinders Online Institute. Educators can now choose from over 30 unique courses and trainings geared to meet different skill-levels, grades and programming interests. The new offerings are meant to help ease teachers back into the classroom and STEM computer science learning loss after a year of remote and hybrid instruction. The new materials can be accessed for free at [Infosys.org/pathfindersonline](https://Infosys.org/pathfindersonline).

According to the 2020 *State of CS Report*, 28 states recently passed new laws to promote computer science education but not all mandated funding for professional development for teachers. Additionally, a recent study by the Kapor Center that surveyed over 3,500 PreK-12 CS teachers found that over a quarter of respondents felt limited by their own subject matter expertise and expressed a need for low-cost computer science professional development. The Pathfinders Online Institute addresses these challenges by providing educators with access to computer science curricula, innovative professional development and first-of-its-kind streamable K-5 lessons for educators with no computer science background – at no cost.

“Teachers have overcome insurmountable instructional challenges over this past pandemic year,” said **Kate Maloney, Executive Director, Infosys Foundation USA**. “As they return to the classroom and seek to capture their students’ imaginations, the Foundation is providing creative resources. This will help them bring leading edge computer science and making curricula to their classroom, so their students are equipped with the fundamental digital literacy required to succeed in a tech-driven world.”

Infosys Foundation USA is partnering with CS is Elementary, Raspberry Pi and BirdBrain Technologies to offer these innovative learning modules that will help educators enhance their computational fluency. The modules include:

- **Kode5 with CS is Elementary (Grades K-5):** Kode5 consists of a baseline computer science program for any school: a set of five on-demand courses that provide 20+ hours per grade of computer science education. Virtual co-teachers provide the instruction, while classroom teachers—even those without experience, training, budget or special facilities—manage and support students’ experience.
- **Programming Essentials in Scratch in partnership with Raspberry Pi (Grades 4-8):** In this six-part course, educators will receive an introduction to block-based programming within the

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Scratch environment.

- **Python and Robotics with the Finch Robot in partnership with BirdBrain Technologies (Grades 6-12):** In this course, educators will be introduced to physical computing and learn how to use the Finch Robot across a variety of computer science concepts. The first 100 U.S. public and charter school teachers to apply will also receive one free Finch Robot 2.0.
- **Design, Build and Code a Rover with Raspberry Pi (Grades 8-12):** In this six-part course, educators will learn to build a physical project using the Raspberry Pi Pico microcontroller. The first 1,000 U.S. public and charter school teachers to apply will also receive a free Raspberry Pi Pico hardware kit.

“The Covid education crisis showed that we can teach K-5 computer science via distance learning if we keep students continuously engaged and provide expert virtual co-teachers,” said **John Pearce, Executive Director, CS is Elementary**. “Kode5 courses are built upon this concept, enabling scalable baseline K-5 CS instruction for any child in any school, grade, classroom, or family.”

“Robots are powerfully motivating CS learning tools that bring computer code to life, but they are most effectively used by teachers who are well-supported,” said **Tom Lauwers, Founder and CEO, BirdBrain Technologies LLC**. “That is why we are so excited by this opportunity to offer educators a free course and robot with Infosys Foundation USA, to help teachers spark deep and joyful CS learning in their classrooms.”

“Supporting computer science and maker educators is a critical part of our work,” said **Matt Richardson, Executive Director, Raspberry Pi Foundation North America**. “We’re delighted to collaborate with Infosys Foundation USA on these free courses and to help students use newly-acquired skills in order to solve problems that matter to them.”

## ***OpenText Adds Cyber Resilience in the Netherlands Data Center***

18 August 2021

OpenText™, announced the expansion of its data center in the Netherlands to support Carbonite® Server. The expanded regional support empowers OpenText’s small and medium-sized business (SMB) customers and partners with greater flexibility and more options to store their data in compliance with UK and EU regulations.

“The regulatory landscape continues to evolve at a rapid pace,” said Prentiss Donohue, EVP SMB/C Sales at OpenText. “OpenText is committed to expanding data center support in additional regions to help our customers address complex data sovereignty issues by uniformly ensuring compliance with government regulations.”

This expansion demonstrates OpenText’s commitment to grow its European presence, and provide support to small-and-medium-sized businesses and the partners who serve them.

“As a long-standing partner, we are excited about the availability of a data center outside the UK, as this will provide our customers with additional options and make it even easier for them to comply with GDPR regulations,” said Andreas Schröder, Team Lead Backup & Continuity at EBERTLANG. “We believe this move is another important building block to further establish the portfolio of MailStore, Carbonite and Webroot as the leading data security and email archiving solutions in the DACH region.”

Carbonite Server is an all-in-one backup and recovery solution for physical, virtual and legacy systems with optional cloud failover. Recognized for its flexibility, Carbonite Server offers various deployment options and the ability to restore current or historical data from the cloud or a local appliance.

## ***Stratasys Spearheading Sustainability for 3D Printing Industry to Advance More Mindful Manufacturing***

17 August 2021

Stratasys Ltd., a leader in polymer 3D printing solutions, announced its commitment to lead 3D printing with an ESG-focused offering, establishing its ‘**Stratasys Sustainability**’ function and appointing Rosa Coblens as Vice President of Sustainability. Stratasys said a commitment to a circular economy, climate action, and social impact is paramount to building on its 30+ years of leadership in polymer 3D printing.

Stratasys CEO Dr. Yoav Zeif said now is the time for Mindful Manufacturing. “The new global economy requires companies to adapt and overcome unexpected challenges, while maintaining a commitment to environmental stewardship,” he said. “Stratasys is well-positioned to provide production and manufacturing solutions that are resilient, empower local supply chains, and most importantly save lives. For example, during the pandemic we were able to repurpose our ecosystem to support the design, manufacture and delivery of vital personal protective equipment and ventilator parts to the healthcare industry.”

Zeif added, “Beyond the global pandemic, climate change is a growing worldwide concern. It is our mission to translate our leadership in 3D printing into mindful business applications for our customers – where less waste is produced, and more value derived from the digital processes that drive our manufacturing solutions. This approach is aimed at assisting our customers in reducing their carbon footprint, with less dependency on mass shipment of inventories and parts, shortening and localizing supply chains across industries such as aerospace, automotive, healthcare and consumer products.”

To advance its commitment to sustainability, Stratasys joined the Additive Manufacturer Green Trade Association as a Founding Member, with Coblens serving on the AMGTA Board of Directors. The AMGTA is a new global trade organization launched in November 2019. The AMGTA is a non-commercial, unaffiliated organization open to any additive manufacturer or industry stakeholder that meets certain criteria related to sustainability of production or process. Part of the AMGTA’s mission is to commission research that highlights the sustainable uses of additive manufacturing.

“Stratasys’ Founding Member status is critical to our organization’s mission to advance sustainability in additive manufacturing as we secure a selective group of market and industry experts to represent and advance our work to report on the environmental benefits of additive manufacturing,” said Sherry Handel, Executive Director of the AMGTA. “Our goal is to introduce new lifecycle analysis research projects in additive manufacturing that clearly measure impact and increase the world’s understanding of 3D printing as critical to the global manufacturing industry’s move towards greater sustainability.”

Stratasys also identified four U.N. Sustainable Development Goals (SDGs) as the cornerstones of its purpose-driven sustainability efforts. Measurable goals are being designed as part of Stratasys’ 2022 focus areas:

- **Responsible Consumption and Production:** The world continues to use natural resources unsustainably. Ensuring more responsible consumption and production patterns includes the environmentally sound management of chemical waste, the disposal of waste generally, and the efficient use of production materials. Additive manufacturing can be a more efficient production method, alongside a growing use of recycled and renewable materials. Stratasys is committed to innovation in reduced waste, reused materials and recycled packaging.
- **Industry, Innovation and Infrastructure:** Industrialization benefits economies around the world, creating jobs and wealth; it makes information and communications accessible through

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technology, it promotes inclusive research and innovation, and supports entrepreneurship. Stratasys intends additive manufacturing to benefit people worldwide, enabling designers, engineers and manufacturers with local, on-demand capabilities that empower companies and organizations of all sizes to improve quality of life everywhere.

- **Climate Action:** Climate change continues to impact the frequency and severity of natural disasters, and not enough action is taken to move towards net zero carbon emissions. Such targets become easier to achieve by reducing global shipping, and by using more efficient, digital manufacturing methods. Stratasys is committed to reducing not only its own carbon footprint but to making it easier for customers to do so when using Stratasys' products, as well.
- **Quality Education:** As a company powered by the possibilities of innovation, Stratasys is committed to ensuring inclusive and equitable quality education and learning opportunities for everyone, advancing 'learning by making' opportunities, and leveraging our technology to empower students – the workforce of tomorrow. This means ensuring everyone has the literacy and relevant technical skills for rewarding careers. Stratasys both markets solutions to educators and advocates for them.

## ***TCS Named 2021 MongoDB Global System Integrator Partner of the Year***

13 August 2021

Tata Consultancy Services (TCS), a leading global IT services, consulting and business solutions organization, has been named the MongoDB Global System Integrator Partner of the Year for its bold, innovative solutions that accelerate the growth and transformation journeys for businesses across industries.

TCS has been partnering with leading enterprises across the world in their application and data modernization initiatives as part of their multi-horizon cloud transformation journeys. It has been building innovative new applications that leverage the power of MongoDB's flexible document model to easily manage large datasets of structured as well as unstructured data and derive insights to enhance customer experience.

Enterprises embarking on digital transformation often find that their legacy systems of record, particularly monolithic mainframe systems, are inadequate to meet the increasing demands of volume, speed, and data diversity of their modern digital systems of engagement. Re-architecting and rewriting these applications can be time consuming, expensive, and risky. Consequently, they often prefer a tools-driven refactoring approach to intelligently automate code conversion.

TCS MasterCraft™ TransformPlus automates the migration of legacy applications and databases to modern, cloud or on-premises architectures, and to SQL or non-relational databases such as MongoDB. TransformPlus extracts business logic from legacy mainframe systems as a convertible, document data model for deployment. This makes extraction faster, easier, and more economical, and reduces the risk that comes with rewriting legacy applications. This, along with MongoDB's document data model platform, can help make development cycles up to 5 times faster. Businesses can drive innovation faster, cut costs by 70% or more, and reduce their risk at the same time.

*"We are pleased to recognize TCS as our Global System Integrator Partner of the Year," said **Alan Chhabra, Senior Vice President, Worldwide Partners, MongoDB.** "We're working closely with TCS to radically simplify and accelerate our customers' journey to the cloud. TCS MasterCraft's intelligent automation is helping migrate enterprise-level mainframe applications to MongoDB's leading application data platform. Streamlining and protecting data, while also laying the foundation for future*

success."

*"TCS provides full scale modernization services to global enterprises, ranging from consulting and strategizing to execution. With the help of TCS MasterCraft products, TCS has industrialized multi-platform application development, as well as the end-to-end migration of application code and databases,"* said **Vijayalakshmi Gopal, Business Head, TCS MasterCraft**. *"Our partnership with MongoDB helps enterprises accelerate the modernization and migration of their mainframe workloads, resulting in innovative new systems, greater agility, enhanced customer experience and competitive differentiation."*

## ***Wipro to Announce Wipro AWS Launch Pad Co-Innovation Space***

17 August 2021

Wipro Limited, a leading global-information technology, consulting, and business-process services company, has unveiled the Wipro AWS Launch Pad co-innovation center in São Paulo. Designed to accelerate innovation, Wipro AWS Launch Pad is ideal for customers looking to turbocharge their success.

The center empowers Wipro Brazil in the development and showcasing of tailored offerings on Amazon Web Services (AWS) for clients throughout industries nationwide. The space will act as a multidisciplinary customer showcase hub for specialized teams to ideate, collaborate, develop, and deliver scaling cloud solutions. Customers will be empowered to leverage AWS in the areas of application and database migration, application modernization, serverless computing, purpose-built databases, analytics, and artificial intelligence (AI).

Wipro is dedicated to fostering growth even in these challenging times, and the co-innovation center allows for an integrated and resilient approach on delivery that facilitates accelerated cloud adoption for enterprises and offers support at every step of their cloud journey. It will also enable improved agility, security, and optimized costs, all of which will combine to drive superior business performance for customers in Brazil.

From creating cutting-edge solutions to achieving AWS Premier Consulting Partner status in the AWS Partner Network (APN), Wipro has developed deep expertise in AWS to deliver transformational cloud programs. This center further reinforces Wipro and AWS's shared commitment to deliver innovative solutions and provide exceptional customer service.

**Srinivas Pallia, President and CEO - Americas, Wipro Limited** said, "We are executing our goal of creating multiple Wipro-AWS Launch Pad centers around the globe, and São Paulo was the ideal location for our latest launch. This offers enterprise-scale cloud adoption that is optimized through integration and leverages best practices to minimize disruption and reduce risk while accelerating the cloud migration of complex workloads. The momentum created by these launches is exciting and we look forward to helping customers solve their business transformation challenges in a rapidly changing technology environment."

**Douglas Silva, Vice-President and Country Head - Brazil, Wipro Limited** adds, "Enterprise customers are seeking to increase speed and agility while achieving massive economies of scale, which is critical for continued success in today's dynamic business environments. The local expertise of Wipro and AWS combined with our customer obsession mindset will help customers in Brazil who harness the Wipro-AWS Launch Pad to thrive in the huge cultural and technology transformation that has been allowed by AWS."

**Cleber Moraes, Brazil Country Director, AWS** said, "This announcement from Wipro meets the

needs of companies to increase speed and agility while achieving cost optimization. In the future, with the trend towards a more digital market, the debate is not a question of if, but rather, when companies will move to the cloud. We are delivering innovative and high quality solutions to leverage efficiency.”

## Event News

### ***Altair to Virtually Present at the Rosenblatt Technology Summit: The Age of AI Scaling***

12 August 2021

Altair, a global technology company providing software and cloud solutions in the areas of simulation, high-performance computing, data analytics and artificial intelligence announced that James Scapa, chairman and chief executive officer, and Matt Brown, chief financial officer, will virtually present via fireside chat format at the **Rosenblatt Technology Summit: The Age of AI Scaling** on Thursday, August 26, 2021 at 8:00 a.m. ET.

A live webcast, as well as a replay, of the presentation will be available on the company’s investor relations website.

### ***DIGITAL TECHNOLOGIES FORUM EXHIBITS SAMPL BLOCKCHAIN DEMONSTRATOR***

17 August 2021

Together with partners, PROSTEP has developed a blockchain-based solution for the tamper-proof exchange of 3D print and process data and the unambiguous identification of printed components as part of the SAMPL project funded by the German Federal Ministry for Economic Affairs and Energy (BMWi). The demonstrator for this solution will be exhibited at the Digital Technologies Forum in Berlin in 2021/22. The forum is a networking platform and exhibition space for selected digital technology research projects and innovations from Germany. The aim is to promote discussion and the transfer of knowledge between national and international actors from the worlds of business, science, and politics.

The Digital Technologies Forum's showroom offers an overview of key developments from Germany in the field of digital technologies. It is currently showcasing interactive demonstrators involving hot topics such as augmented reality, digital twins, machine learning, artificial intelligence, big data analytics and blockchain. PROSTEP set up the SAMPL demonstrator at the end of last year. Employees at the Fraunhofer Heinrich Hertz Institute (HHI), which is in charge of the showroom, present the demonstrators to experts, political decision-makers, representatives from the scientific community and members of the press from Germany and abroad during guided tours.

The SAMPL demonstrator shows an example of how to create a trustworthy data transfer chain for additive manufacturing. This makes it possible for companies to send 3D print and process data to an external print service provider for the manufacture of spare parts without compromising the protection of their intellectual property. A key part of this chain of trust is the OpenDXM GlobalX data exchange solution as well as SAMPL-capable 3D printers, which ensure that only the licensed number of print jobs are executed. The solution also allows the printed components to be tagged using RFID chips or other methods for ensuring traceability and unambiguous identification.

"We are proud that the Digital Technologies Forum has chosen our SAMPL demonstrator to serve as an

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example of innovative research results," says Dr. Martin Holland, coordinator of the successfully completed consortium project. "With the development of the Secure Additive Manufacturing Platform, we have pioneered the use of blockchain technology in a variety of different application areas." PROSTEP has now fully integrated the blockchain module in its OpenDXM GlobalX data exchange platform so that it can be used for the tamper-proof exchange of any type of product or process data.

"Blockchain technology will dramatically change the way companies ensure compliance with contractual agreements in collaborative scenarios," says Marc Reznicek from Fraunhofer HHI. "The SAMPL demonstrator is a good example of the application of technology in industrial environments and is sure to generate a great deal of interest among international visitors to the Digital Technologies Forum."

## ***NEC To Host NEC Visionary Week 2021***

16 August 2021

NEC Corporation announced the Global Program for NEC Visionary Week 2021, an online annual event taking place from September 16 to 17, 2021. During the event, NEC will present a shared vision of the future that highlights its latest technologies, solutions and customer case studies from various business domains.

Themed "Seize the Future Together," this NEC flagship event will offer exclusive global sessions over a two-day period, envisioning and co-creating a brighter, more sustainable world with partners and stakeholders. The sessions will focus on how innovative technologies, such as AI and 5G, can contribute to addressing critical challenges for society, such as overcoming COVID-19 and implementing essential digital transformation measures in key industries. Thought leaders from around the world will gather to share their insights on the future of society and business. These sessions will be available on-demand until October 30.

The opening keynote will be presented by Takayuki Morita, President and CEO of NEC Corporation, on September 16 from 15:00-15:20 (JST).

Distinguished speakers will include Jeffrey Goh, CEO of Star Alliance, Anuradha Gupta, Deputy CEO of Gavi, The Vaccine Alliance, Mihoko Kashiwakura, Head of East Asia Relations at Bill & Melinda Gates Foundation, Naoki Tani, Executive Vice President, Chief Technology Officer and Executive General Manager of the R&D Innovation Division of NTT DOCOMO, INC, Kevin Woodward, Lockheed Martin Space, Senior Manager for AI/Machine Learning, Hans Jayatissa, Chief Technology Officer of KMD, and more.

Makoto Enomoto, Chief Marketing Officer (CMO), NEC Corporation, said, "NEC Visionary Week is the most important event of the year for NEC to present a shared vision of the future and showcase key initiatives that contribute to achieving this goal. Through the NEC Visionary Week, we look forward to meeting and engaging with our global guests, building further trust in our brand, and exploring how we can co-create a brighter and more sustainable future."

## ***What are the next steps for automation? - EPLAN Forum for Automation Engineering***

17 August 2021

Solutions provider EPLAN is expanding its tried and tested EEC Forum idea to include the topics of modularisation and standardisation. Along with the thematic expansion, this international event is getting a new name – the EF|A stands for EPLAN Forum for Automation Engineering. The event is taking place online on 29 and 30 September. Event partners including Configit, Contact, encoway and

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SAE will also be presenting their companies' solutions in the fields of configuration, CPQ and variant management.

## **From modularisation to configuration – everything structured and standardised**

How do engineers implement the functional structuring of a machine – with corresponding options, variants, features and dependencies? These questions should already be answered when planning and designing a machine/plant system. Creating templates, macros and macro projects – this is the next step on the path to automation in engineering, which is specifically being examined using various EPLAN solutions. Participants will also learn about concepts that have been proven in practice for questions relating to standardisation and configuration; ideally, these allow documentation for the control cabinet layout and the electrical designs to automatically be generated from SAP configuration.

International customers including Aggreko, BST, Danfoss, KHS, Oskar Frech, Scheuch and Spiromatic will take audiences on a tour of their tried-and-tested solutions and provide background information on their strategies and implementation. EPLAN experts will take a deeper dive into these methods and strategies for modularisation, standardisation and automated engineering using the solutions eBuild, EPLAN Cogeiner and EEC.

## **“Test drive the system”**

Users will also “get their money’s worth”: in Hands-on Sessions, they can try out various systems, using for instance either EPLAN eBuild or EEC to create schematics. Machine cabling using a 3D model can also be easily tested here – Harness proD, the EPLAN solution for machine cabling and wire harness engineering, can be used to directly derive the manufacturing documentation.

The event for automated engineering will be simultaneously translated in English – and registration and participation are free of charge.

## **Financial News**

### ***Synopsys Posts Financial Results for Third Quarter Fiscal Year 2021***

18 August 2021

Synopsys, Inc. reported results for its third quarter fiscal year 2021. Revenue for the third quarter was \$1,057.1 million, compared to \$964.1 million for the third quarter of fiscal 2020.

"Synopsys delivered excellent results in the fiscal third quarter, including record revenue and non-GAAP earnings, and we are substantially raising our fiscal 2021 targets. On a trailing-12-month basis, we surpassed the major milestone we set a few years ago: \$4 billion in revenue and 30% non-GAAP operating margin." said Aart de Geus, chairman and co-CEO of Synopsys. "Vibrant markets, unparalleled technology innovations, and strong execution position us to continue to increase shareholder value going forward. As we look to next year and beyond, we are aiming at crossing \$5 billion in revenue by 2023, with double-digit annual revenue growth and continuing margin expansion."

#### **GAAP Results**

On a generally accepted accounting principles (GAAP) basis, net income for the third quarter of fiscal 2021 was \$198.6 million, or \$1.27 per share, compared to \$252.9 million, or \$1.62 per share, for the third quarter of fiscal 2020.

#### **Non-GAAP Results**

On a non-GAAP basis, net income for the third quarter of fiscal 2021 was \$284.5 million, or \$1.81 per

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share, compared to non-GAAP net income of \$271.9 million, or \$1.74 per share, for the third quarter of fiscal 2020.

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

## *Business Segments*

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

## **Financial Targets**

Synopsys also provided its consolidated financial targets for the fourth quarter and full fiscal year 2021. These financial targets assume that there are no further changes to the current U.S. government "Entity List" restrictions for the rest of the fiscal year. These targets constitute forward-looking statements and are based on current expectations. For a discussion of factors that could cause actual results to differ materially from these targets, see "Forward-Looking Statements" below.

### **Fourth Quarter and Fiscal Year 2021 Financial Targets**

*(in millions except per share amounts)*

|   | <b>Q4 FY 2021</b> |             | <b>FY 2021</b> |             |
|---|-------------------|-------------|----------------|-------------|
|   | <b>Low</b>        | <b>High</b> | <b>Low</b>     | <b>High</b> |
| Revenue                                   | \$ 1,138          | \$ 1,168    | \$ 4,190       | \$ 4,220    |
| GAAP Expenses                             | \$ 924            | \$ 952      | \$ 3,431       | \$ 3,459    |
| Non-GAAP Expenses                         | \$ 805            | \$ 815      | \$ 2,915       | \$ 2,925    |
| Other Income (Expense)                    | \$ (5)            | \$ (3)      | \$ (6)         | \$ (4)      |
| Normalized Annual Tax Rate <sup>(1)</sup> | 16%               | 16%         | 16%            | 16%         |
| Outstanding Shares (fully diluted)        | 156               | 159         | 156            | 159         |
| GAAP EPS                                  | \$ 1.09           | \$ 1.25     | \$ 4.63        | \$ 4.79     |
| Non-GAAP EPS                              | \$ 1.75           | \$ 1.80     | \$ 6.78        | \$ 6.83     |

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Operating Cash Flow

~ \$1,350

(1) Applied in non-GAAP net income calculations

## **Earnings Call Open to Investors**

Synopsys will hold a conference call for financial analysts and investors today at 2:00 p.m. Pacific Time. A live webcast of the call will be available on Synopsys' corporate website. A recording of the call will be available by calling +1-866-207-1041 (+1-402-970-0847 for international callers), access code 9581321, beginning at 5:45 p.m. Pacific Time today, until 11:59 p.m. Pacific Time on August 25, 2021. A webcast replay will also be available on the website from approximately 5:30 p.m. Pacific Time today through the time Synopsys announces its results for the fourth quarter and fiscal year 2021 in December 2021. Synopsys will post copies of the prepared remarks of Aart de Geus, chairman and co-chief executive officer, and Trac Pham, chief financial officer, on its website following today's call. In addition, Synopsys makes additional information available in a financial supplement and corporate overview presentation, also posted on the corporate website.

## **Effectiveness of Information**

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

## **Availability of Final Financial Statements**

Synopsys will include final financial statements for the third quarter fiscal year 2021 in its quarterly report on Form 10-Q to be filed by September 9, 2021.

## **Implementation Investments**

### ***American Residential Services Selects IFS Field Service Software To Automate Nationwide 24/7 Service Operations***

18 August 2021

IFS, the global cloud enterprise applications company, announced that American Residential Services (ARS/Rescue Rooter), the nation's largest provider of 24/7 residential heating, ventilation, air conditioning (HVAC), and plumbing services, will implement IFS software to improve its workforce scheduling, customer experience and profitability. The IFS solution, deployed in the cloud, will play a key role in optimizing workforce productivity, ensuring both technicians and parts are delivered in the right time and place quickly and efficiently, through advanced capacity planning, scheduling, and deployment features.

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The new solution will improve personnel scalability, customer service and satisfaction, and first-time fix rates—all of which were difficult to achieve through previous legacy systems. ARS/Rescue Rooter is working towards a cloud-based operating model which, once the solution is fully implemented, will support 5,800 users in 70 branches across 24 states.

ARS/Rescue Rooter delivers its services to homes and light commercial businesses and has previously relied on manual technician and work order scheduling methods integrated together using a combination of knowledge, reporting and Microsoft Power BI tools rather than housed in a single solution. Now, powerful automated algorithms within IFS's solution will enable it to optimize crucial moments of service for its customers. Work orders will be automatically routed to ensure technicians get to jobs quickly so back-office support staff, who receive 90% of requests via calls, can focus on emergency service accommodations and other exception-based work.

Cindy Jaudon, Regional President for the Americas at IFS, commented: "Our message to ARS/Rescue Rooter was that optimization is embedded within IFS software. IFS is constantly evaluating the schedule with one eye fixed on innovation. This solution truly decreases the need for dispatcher intervention, with reduced travel times and no-shows." She added: "For delivering those crucial moments of service to its customers, IFS will be an essential organizational tool and we can't wait to see ARS/Rescue Rooter reap the benefits."

"ARS/Rescue Rooter is a growing company providing 24/7 essential service support for our customers and getting it right the first time is paramount to our success. We selected IFS because they engaged with us from the beginning to really understand our current challenges, but also our long-term business objectives. With their laser focus on service, paired with their proven expertise in the field service management space, IFS was able to provide the completeness of solution and the scalability to deliver. The ability to automate the scheduling and dispatch of our in-house technicians will save us time, meaning we can focus on continuing to deliver exceptional customer experiences," explained Kevin Worley, Chief Information Officer at ARS/Rescue Rooter. "With the help of IFS's cloud solution, we can optimize the scheduling process, improving efficiency while reducing additional truck rolls and operating expenses. We are very excited about the partnership with IFS."

## ***Atos successfully delivered critical IT for the Olympic Games Tokyo 2020, the most digitally connected Olympic Games in history***

17 August 2021

Atos, the Worldwide IT Partner of the Olympic and Paralympic Games, today announced it has run and orchestrated the key digital IT systems that helped to safely and securely deliver the Olympic Games Tokyo 2020, and enabled billions of fans around the world to follow the competitions in these unprecedented times.

Atos' broad scope of responsibility in the Olympic Games included everything from program and operations management and the development and hosting of critical applications, to digital integration. Working side-by-side with the IOC (International Olympic Committee), Tokyo 2020 Organising Committee and other technology partners, Atos ensured the effective digital delivery of the event.

### **Reducing the environmental impact of the Olympic Games**

The fast-evolving secure, decarbonized, digital technology landscape brings innovation, in each edition of the Olympic Games and Tokyo 2020 was an exciting next step in the digital transformation of the Olympic Games. In line with its own groundbreaking commitments towards decarbonization and Net Zero, Atos is actively participating in global efforts to **reduce the environmental impact** of the

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Olympic Games – fully migrating all systems to the cloud, supporting key technology testing and rehearsal remotely and scaling down the number of physical servers needed for previous Olympic Games. This new delivery model enabled to reduce energy consumption, heat emanation, reduce the amount and number of resource intensive hardware infrastructures, as well as limiting the number of employees travelling to the host city. Atos will be reusing the same technologies for the Paralympic Games.

*“In these unprecedented times, the support and confidence of our Worldwide Partners is now more important than ever. We are pleased to be working with Atos, our trusted guide in a period of great digital transformation, to provide the digital backbone and key digital platforms we rely on to run the Olympic Games. We are delighted to be able to keep counting on Atos to support the Olympic Movement and to help bring the Olympic values to billions of people across the globe.”* said **Thomas Bach, President of the International Olympic Committee (IOC)**.

## Tokyo 2020 in numbers

- All critical applications were hosted **100% in the Atos cloud**
- **400,000** accreditations issued (up to 30% since Rio 2016) – which also served as a secure official border entry document into Japan
- **41,724 volunteers** accepted through the volunteer portal
- **339 events** in the Olympic Program with **near-instant transmission of results** to fans, journalists and broadcasters
- **Billions of viewers**
- **200,000 hours of technical testing** during the preparations – including Olympic Games-first virtual methods to complete technology rehearsals
- **Physical servers have been reduced by nearly 50%** compared to previous editions – operating from 250 servers in Rio 2016 to just over 130 in Tokyo 2020.
- Record breaking traffic for Olympic digital platforms (+50% users compared to Rio 2016)
- **5 M users** of the official Olympic website during the first days of the Olympic Games

*“Members of the Atos team are champions behind the scenes, and I am extremely proud of their hard work and dedication,”* said **Elie Girard, Atos CEO**. *“We brought our trusted digital expertise and 30-year experience to ensure the successful delivery of the Olympic Games. By quickly adapting to the COVID-19 pandemic, the Atos family has shown flexibility and has leveraged its digital security expertise to enable fans and all stakeholders worldwide to keep track of their favorite athletes – which is a fantastic achievement, as these Olympic Games were the most connected in history.”*

Atos provided critical digital solutions to Tokyo 2020, including Games Management Systems supporting the planning and operations of the Olympic Games and Information Diffusion Systems delivering real-time results to the media and the Olympic family. Atos also **secured the entire IT infrastructure**, leveraging its expertise in digital cybersecurity and as number #2 managed services provider worldwide. Its centralized and cloud-based security services included a Security Operations Center (SOC), a Computer Security Incident Response Team (CSIRT), endpoint detection & response and vulnerability assessment services.

As part of the digital innovations of the Tokyo 2020, Atos also implemented edge computing technology allowing reduced processing time and developed the most innovative Advanced Access Control System in history, which integrates facial recognition.

## ***Coreform wins DOE Phase II SBIR to enable improved modeling for nuclear energy simulation***

13 August 2021

Coreform LLC, a leading developer of commercial isogeometric analysis software, announces its award of a Department of Energy Phase II SBIR to enable broader use of MOOSE for nuclear energy simulation.

Nuclear energy codes developed by the Department of Energy are increasing in importance, as a growing number of private nuclear companies rely on them to develop non-lightwater reactors and government agencies continue to push the frontier in nuclear science. However, these codes are currently underutilized because of onerous workflows to prepare and review designs for simulation.

Coreform completed a proof-of-concept integration between the MOOSE nuclear simulation code and Coreform Cubit during Phase I of this SBIR, along with enhancements to allow for cutting-edge, highly accurate Coreform isogeometric analysis (IGA) spline meshing representations to be fully leveraged in the MOOSE simulation code. Additionally, Coreform released Coreform Cubit Learn, a free non-commercial-use license of Coreform Cubit. This free license allows for academic researchers to use the same toolset as the commercial nuclear energy industry when leveraging the open-source MOOSE framework.

In this Phase II SBIR, Coreform will further develop the connection between Coreform Cubit and MOOSE. This work will enable nuclear companies to accelerate their time to market for safe nuclear reactors, improving their ability to simulate detailed, fully 3D models with more reliable quality assurance. Similar benefits will be seen in other industries, including automotive, defense, and aerospace.

“We are excited about working with Idaho National Laboratory (INL) and the MOOSE team to enable significantly improved simulation workflows for the nuclear energy industry,” says Coreform CEO Matt Sederberg.

## ***Dainese Selects Centric PLM to Streamline Quality, Safety and Compliance***

16 August 2021

Leading Italian sports safety manufacturer Dainese has selected Centric Software®’s Product Lifecycle Management (PLM) solution to create a single point of collaboration for all product development processes. Centric Software provides the most innovative enterprise solutions to plan, design, develop, source and sell products such as apparel, footwear, sporting goods, furniture, home décor, cosmetics, food & beverage and luxury to achieve strategic and operational digital transformation goals.

Dainese was founded in 1972 by Lino Dainese, a 24-year-old motorcycle enthusiast, who went on to design the first technical motorcycle racing suit for the legendary racer Giacomo Agostini. The company’s core commitment to performance and safety has gone beyond motorcycle clothing to encompass durable and stylish safety gear for alpine skiing, mountain biking, horse riding, competitive sailing and ultimately to outer space with products such as a gravity load simulation suit for the International Space Station (ISS).

Although the artisanal crafting traditions present in Dainese’s designs go back centuries, the company needed to innovate and modernize to keep pace with developments in dynamic sports safety technologies.

“When you walk into the room where people are sewing a suit for Valentino Rossi, you smell the leather

# CIMdata PLM Industry Summary

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and you see the craftsmanship, it's priceless... the most important challenge we face in our day-to-day work is to balance this unique heritage with the need to evolve, keeping aligned to our values and to our DNA," says Luca Menegardo, CIO at Dainese. "We produce apparel, helmets, shoes, ski garments, motorcycle and bike racing garments, as well as electronics (with our D-air technology). Quality and compliance are at the center of what we do. We have strict protocols and very clear regulations we need to comply with."

Dainese decided to switch to a centralized PLM platform in order to effortlessly facilitate compliance with safety regulations across different teams, as well as boosting collaboration. Their selection process was thorough, including a careful evaluation of the marketplace and multiple reference calls. After running several on-site workshops, Centric PLM rose to the top as the clear choice, due to its ability to centralize all information in one digital space, therefore eliminating thousands of spreadsheets and other disperse offline files as well as reducing time spent searching for up-to-date product data.

"We were coming from a situation where work was pretty fragmented... our Product Manager was working in systems such as PowerPoint and Excel, then sharing with the Design team, but this was all happening offline," says Menegardo.

Roberto Conte, Project Manager at Dainese elaborates, "The real challenge was to have a structured, common platform, acting as a database rather than just spreadsheets or an offline repository. Centric PLM will cover this need."

"A helmet takes almost three years to get from an idea to the market, versus apparel which has pretty much a one-year product development lifecycle," Menegardo continues. "The same helmet needs to comply with one certification for Asia, one for Europe, one for the U.S., one for MotoGP and so on. Then there is additional homologation for each size, so it's very complex."

Dainese expects that combining all of their product data into one comprehensive, easy-to-use online solution will greatly simplify the iteration process for new products, giving design and production teams instant access to accurate data and compliance information, as well as visibility into other teams' activities. This will ensure the production of safe products that meet international compliance standards before delivery to customers.

"We have been very happy with the support received so far from the Centric team, as well as the project set up. I believe that Centric PLM is going to make our lives much easier because there will be less back and forth, everything will be much more *rotondo*, as we say in Italian. It's not going to be scattered, it's going to be more streamlined and flawless," concludes Menegardo.

"We are delighted to welcome Dainese to the Centric Software family and look forward to enabling them to produce products which are beautifully crafted, highly technical and compliant with the latest worldwide safety standards," comments Chris Groves, President and CEO of Centric Software.

## ***Evolution Mining Deploys Aspen Technology Software to Mitigate Unplanned Downtime and Improve Plant Performance***

17 August 2021

Aspen Technology, Inc., a global leader in asset optimization software, announced that a leading Australian gold miner, Evolution Mining has deployed Aspen Mtell software at the company's Mungari Gold Operations, Western Australia, to help mitigate unplanned downtime and provide information to support productivity improvements.

Greg Walker, Evolution Mining Mungari General Manager, said: "Evolution's Data Enabled Business

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Improvement (DEBI) program has achieved excellent results in recent years. With this new technology Mungari Gold Operations can achieve further productivity improvements via increased asset availability.”

Evolution Mining performed a rigorous Offline approach to test the Aspen Mtell software on multiple pieces of equipment at two of its key assets (sites) prior to the decision to deploy Online (Live mode). The software *mines historical and real-time operational and maintenance data to discover the precise failure signatures that precede asset degradation and breakdowns, predict future failures, and prescribe detailed actions to mitigate or solve problems via predictive and prescriptive maintenance.*

Jeannette McGill, Vice President and General Manager, Metals and Mining, Aspen Technology, added: “Asset performance management helps customers stay ahead in the maintenance phase of the asset lifecycle. We are pleased that Evolution Mining has partnered with Aspen Technology by choosing to deploy Aspen Mtell, in support of the company’s strategy to lower costs by improving productivity.”

## ***HCL TECHNOLOGIES WINS FIVE-YEAR IT TRANSFORMATION DEAL WITH WACKER CHEMIE AG***

17 August 2021

HCL Technologies (HCL), a leading global technology company, has signed a five-year, end-to-end IT transformation services deal with Wacker Chemie AG, a German multinational chemical company, to establish a modernized digital workplace and improve its quality-of-service delivery.

Spanning the globe with four business divisions, Wacker currently operates 26 production sites. Wacker’s engagement with HCL will lead to significant cost efficiencies through modernization, standardization and automation. HCL will be using AI-enabled virtual assistants to drive efficiencies for Wacker.

“Wacker was looking to transform its current sourcing model with a long-term ‘Next Generation Managed Service’ sourcing model,” said Dirk Ramhorst, CIO and CDO, Wacker Chemie AG. “We wanted a partner to not only enhance our digital transformation journey but also support the ‘Wacker Digital Program,’ helping us to become a digital leader in the chemical industry. We have great confidence this partnership will improve efficiencies through potential harmonization of service delivery across IT areas while ensuring frictionless and streamlined processes.”

“Germany is a key strategic market for HCL and our engagement with Wacker is testament to our continued growth in the region,” said Dr. Rolf Frank Fehler, Senior Vice President, HCL Technologies. “We are excited to partner with Wacker, as we strongly believe digital transformation is a collaborative journey. HCL’s global delivery model and regional service management will help ensure delivery success at Wacker.”

## ***Mosaic Insurance and DXC Technology Launch Innovative Technology Platform for Specialty Insurance***

19 August 2021

**Mosaic Insurance** and **DXC Technology** announced the successful launch of an innovative new insurance technology platform that increases the speed at which specialty insurance is sold, underwritten and serviced. Together with DXC’s business-process expertise and technology, Mosaic, a next-generation global specialty insurer, will refine underwriting, simplify transactions, and process claims and assess risks faster. Mosaic also streamlines end-to-end processing and provides real-time access to

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data.

The new platform is powered by several of DXC's technology services, including **DXC Assure for Commercial and Specialty**, business process outsourcing, applications, analytics and engineering, cloud, and security. The model's launch signifies a major step forward in the global insurance industry, combining best-practices in insurance processing with state-of-the-art technology.

"Legacy-free technology is fundamental to Mosaic's model, and our collaboration with DXC represents the first insurtech operating platform of its kind. We believe it gives us a tremendous advantage," said Mitch Blaser, Mosaic's Co-Founder and Co-CEO. "This open platform also delivers the benefit of leveraging the latest technology that's very modular. You can look at what's available in the market, put it on your platform because it suits your needs, and modify it easily. Overall, this allows for better decision-making and lower expense ratios."

Combining Mosaic's IP, expertise, and proprietary workflows with DXC's best-in-class technology, the platform differentiates Mosaic from competitors through use of disruptive technologies, including analytics and artificial intelligence (AI). The platform is 100-percent cloud native, supporting Mosaic's tenet of an open architecture and **Lloyd's of London's** vision for "data-first" and "automation everywhere." Mosaic's structural centerpiece is Syndicate 1609 at Lloyd's - the world's leading insurance market, providing specialist services to businesses in more than 200 countries and territories.

The new platform automates interactions throughout the risk life cycle with:

- Machine-learning algorithms and natural-language processing that enhance underwriting in Mosaic's highly technical product lines, including transactional liability, political violence, political risk, financial institutions, professional liability and cybersecurity
- Blockchain (distributed ledger technology) infrastructure that provides transparent and instantaneous sharing of data across the platform among brokers, syndicated capital partners, reinsurers and regulators
- Data transparency, open interfaces, robotics and AI that cut costs and streamline processes, including regulatory complexities required to operate a syndicate at Lloyd's

"DXC is excited to play a critical role in launching Mosaic's game-changing approach to specialty insurance," said David Swift, President, Insurance and Business Process Outsourcing, DXC Technology. "Our relationship with Mosaic provides DXC with a unique opportunity to flexibly harness the capabilities of our offerings across the entire Enterprise Technology Stack and demonstrate how we are helping innovative enterprises succeed in the marketplace."

Significantly, Mosaic's platform, delivered by DXC, will be at the forefront of using DXC-developed application programming interfaces (APIs) integrated with Lloyd's—allowing systems to exchange data sources for claims processing and seamless receipt of submissions from multiple broker partners. The architecture creates a digital ecosystem offering customers faster coverage and claims payments.

"Our patent-pending insurtech operating model addresses key frailties in the market today," said Mosaic's COO Krishnan Ethirajan. "The platform enables a seamless interaction with broker partners for electronic placements, algorithms for risk selection, triaging, pricing, and claims settlement across our highly-specialized lines."

Founded in February 2021, Mosaic combines Lloyd's Syndicate 1609 with a wholly-owned syndicated capital management agency and underwriting hubs in Bermuda, the UK, US, and Asia.

## ***NCD Group Embarks on Digital Vision with Infor***

17 August 2021

Infor announced that one of Mongolia's leading construction companies, Nomin Construction and Development Group (NCD), has selected Infor as its partner in its efforts to digitalize business processes using ERP solution Infor LN. The deployment will be carried out by Infor partner Vertexmon LLC.

NCD's business boasts a 25-year history and covers a scope that runs the industry gamut, including construction, design, landscaping, nursery, metal works factory operation, furniture factory operation and steel works operation. Projects NCD has worked on include high-end apartments, housing, commercial areas, playgrounds and other outdoor and indoor spaces. The group currently employs a team of 260 architects, engineers and technical staff.

### **Streamlining Diversified Operations with the Help of Infor**

Amidst rapid business expansion and development in Mongolia over the past few years, NCD's previous ERP solutions were unable to meet their growing demands and did not understand the company's increasingly complex business processes. NCD required more powerful solutions that would enable it to collect real-time project data, enhance visibility and better manage projects.

NCD recognized that Infor's industry-specific purpose-built solutions, including Infor LN, Infor ION, Infor Birst, and Infor Factory Track, could meet their needs by:

- Establishing a unified platform bringing together business operations from finance to project management and manufacturing
- Enhancing visibility of business processes and project expenditure
- Making real-time project and business information accessible to speed up decision making

### **Why Infor?**

NCD selected Infor as its strategic partner in its digital business goals because of Infor's rich industry experience and flexible solutions that would enable the company to realize its vision now, while scaling up to meet its growing needs into the future.

NCD will be rolling out four Infor solutions including Infor LN, Infor ION, Infor Birst and Infor Factory Track. With these solutions, NCD hopes to achieve more precise project management with better planning capabilities, budgeting, more accurate estimation of material quantities, and the ability to make changes in real-time with visibility across all departments. Infor also provides NCD the ability to control procurement and warehouse management, as well as distribution to construction sites with Infor Factory Track, streamlining supply chain operations.

Furthermore, the Infor solution will allow NCD to have better remote work experience during the pandemic, as the platform will help enhance efficiency and support during current work-from-home scenarios.

"The Mongolian construction and development market is rapidly growing and changing," said Naranchanga Battulga, Project Director, NCD. "With more and bigger projects, NCD now requires powerful digital solutions that can better meet our business needs for adaptability, visibility and control. We are confident that Infor's ERP solutions will be able to help us achieve our digital vision now and well into the future."

D. Mendsaikhan, CEO of Vertexmon LLC, said "We are proud to provide organizations with a comprehensive information management solution that provides end-to-end business visibility, and empowers customers with a comprehensive business management solution that provides a single source

of truth, either on-premises or in the cloud using Infor's industry-specific ERP solution. In today's digital age, leveraging innovative and robust ERP solution is key to streamlining operations and taking the business to the next level.”

## **The Road Ahead with Infor**

Infor's ERP solution has a proven track record of helping enterprise users successfully realize their digital visions in a wide variety of industries and scenarios. Infor LN, Infor ION, Infor Birst, and Infor Factory Track will not only help NCD digitalize its business now but give it the tools it needs to sustain more precise control over its operations into the future, maximizing the company's potential.

“We are confident that with the partnership of Infor, NCD will be able to achieve its digital vision now and into the future,” said Becky Xie, vice president and managing director for Greater China and Korea, Infor. “Infor's innovative industry-specific solutions finely-tuned in the cloud will help NCD unify disparate business operations and processes, giving the group greater, more precise control over its expenditure, project implementation and more.”

## ***Picocom Accelerates 5G Communications SoC Development with Cadence Palladium Emulation***

18 August 2021

Cadence Design Systems, Inc. announced that Picocom has deployed the Cadence® Palladium® Enterprise Emulation Platform to accelerate the verification and pre-silicon software validation of its system-on-chip (SoC) designs for 5G open radio access network (RAN) applications. Using the Palladium emulation platform, Picocom achieved faster hardware and software integration, experiencing an emulation speedup of 1000X when compared with RTL simulation.

The Palladium emulation platform gave Picocom the ability to bring up system software on RISC-V cores in advance of silicon being available. Using the Palladium emulation platform, Picocom took advantage of fast, predictable compile and was able to quickly debug its design. Picocom also met its power budget requirements using the Palladium Dynamic Power Analysis (DPA) feature, the Cadence Joules™ RTL Power Solution and the Cadence Voltus™ IC Power Integrity Solution to identify, capture and analyze power activity. To run efficient interface testing, Picocom utilized the Cadence SpeedBridge® adapters for PCI Express® (PCIe®) 4.0, USB 3.0 and Ethernet. Additionally, Picocom's international team of engineers took advantage of the Palladium emulation platform's remote accessibility, which allowed them to seamlessly work together to validate their designs.

“Developing 5G applications is extremely competitive, so we have to work at top speed while delivering the best products,” said Peter Claydon, President, Picocom. “We're emulating a 5G NR RAN where the slot length is generally 0.5ms, and most of the time, we need to emulate a few slots, which Palladium emulation now enables us to do in a matter of minutes. The Cadence Palladium emulation platform has dramatically improved our team's efficiency, and the investment proved to be well worth it.”

The Palladium Enterprise Emulation Platform is part of the Cadence Verification Suite and supports the company's Intelligent System Design™ strategy, enabling SoC design excellence. The Cadence Verification Suite is comprised of core engines and verification fabric technologies that increase verification throughput and design quality, fulfilling verification requirements for a wide variety of applications and vertical segments.

## ***Schneider Electric and AVEVA Unify Vale Mining Operations to Improve Safety and Sustainability***

17 August 2021

Schneider Electric, the leader in the digital transformation of energy management and automation, and AVEVA, a global leader in industrial software, driving digital transformation and sustainability, are powering the unification of operations for Vale, a global natural resources and mining company.

The combination of AVEVA and Schneider Electric software, technology and mining domain expertise is providing Vale with the ability to integrate, centralize, and remotely monitor operations across its Mariana and Itabira complexes in Brazil.

Vale ranks among the top five largest mining companies in the world. Headquartered in Rio de Janeiro, the world's leading producer of iron ore, pellets and nickel employs a global workforce of over 170,000 people in 38 countries. The Mariana Complex and Itabira Complex are two of Vale's major iron ore production sites, located in Minas Gerais, Brazil. Together, the complexes are responsible for more than 75% of the production data from Vale's Minas Gerais mining operations.

Vale is improving safety, sustainability, and efficiency of its mining operations with technology from AVEVA and Schneider Electric.

While primarily implemented to improve safety through remote operations, digitalization is critically important to driving efficiency and sustainability in mining. Through the partnership, Vale can unify operations across multiple sites and upgrade its old system to one capable of remotely controlling all the diverse technologies operating across each mining facility. Crucially, the remote management solution enables Vale to have fewer professionals onsite, increasing safety and reducing operational expenditures while also vastly improving energy efficiency, and therefore, sustainability.

Vale chose Schneider Electric and AVEVA for the technological performance and visibility offered by their solutions. These provide an extremely high level of flexibility due to their vendor-agnostic nature, making it easy to integrate disparate technologies across multiple sites.

*"We are constantly looking to improve safety, efficiency and sustainability, not just now but also for the future,"* said Paulo Henrique Fontes Coura, Senior Automation Leader, Vale. *"Schneider Electric and AVEVA have become an integral part of that journey. Rather than simply offering the software, they provided a complete, bespoke end-to-end service helping us optimize at every turn. This included training, support, and advice throughout."*

*"The collaboration between our companies has created something much greater than the sum of its parts,"* said Gilberto da Cunha Vieira, Electrical and Automation Engineer Leader, Vale. *"We are enormously grateful to Schneider Electric and AVEVA for bringing our facilities together."*

Schneider Electric deployed EcoStruxure™ Control Expert – Asset Link, combining AVEVA™ System Platform and Schneider Modicon M580, to provide visibility and unify operations for Vale. The technology enables data to be integrated directly into the system, so Vale's managers have granular insights without having to manually transfer any intelligence. By bringing this data together, Vale can now create a master operations center and remotely manage everything. This greatly improves operational efficiency and means less people are onsite, providing a significant boost to safety.

Other results include:

- Cost savings with faster data to make decisions
- Full visibility and compatibility for all plants, providing a single holistic view

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- Better coordination in operations, and increased efficiency and productivity by unifying multiple disciplines at the same place
- Complete standardization through one platform, with multiple device manufacturers
- Greater sustainability through resource optimization

*“In today’s world, information is imperative,”* said Rob Moffitt, President – Mining, Minerals and Metals, Schneider Electric. *“It drives safety, sustainability, and profitability for those able to use it successfully. Iron production is essential to all our lives, providing steel for the automotive and construction industries around the world. It is vital that a sector upon which we rely can run efficiently, safely and sustainably. The system we have created for Vale alongside AVEVA is vital to this process. We look forward to seeing Vale unlock its potential to understand, manage and enhance its operations across Brazil.”*

*“Mining operations are data-rich environments where digital transformation can drive sustainability and productivity gains for improved asset utilization and enhanced value optimization,”* commented Marc Ramsay, Vice President, Global Strategic Partners, AVEVA. *“Together with Schneider Electric EcoStruxure, AVEVA System Platform supports Vale in realizing the mines of the future through contextualized operations built on a collaborative, standards-based foundation that unifies people, processes, and assets across all of Vale’s facilities for continuous operational improvement and real-time decision assistance.”*

## ***Siemens Smart Infrastructure chooses Atos to move its mission-critical applications to the cloud***

18 August 2021

Atos has been chosen by Siemens Smart Infrastructure to accelerate its transformation journey and support the migration to the cloud of business-critical applications that provide the backbone for manufacturing, sales, distribution, and operations across most of the Business Units of Siemens Smart Infrastructure (Building Products, Electrical Products, Distribution Systems and Digital Grid) worldwide.

Leveraging its +35-year long partnership with SAP and its in-depth knowledge of public cloud provider environments, Atos is now responsible for moving twenty SAP HANA, SAP Enterprise Resource Planning (ERP) and Supply Chain Management (SCM) systems to a hyperscaler-based landscape before the end of 2021 and will be in charge of operating these systems thereafter. Several months into the project, Atos has now successfully migrated nine of these critical systems including three productive SAP platforms.

Siemens Smart Infrastructure is engaged on a strong cloud strategy across most of its enterprise applications and was looking for a reliable partner. Atos leverages its OneCloud initiative to modernize enterprise applications to be agile, mobile, and rooted in analytics, across public, private, and hybrid cloud environments. It used the ability of the Atos OneCloud team to support cloud-application development & modernization and multi-cloud orchestration, as well as Atos’ position as the #2 Managed Security Services provider worldwide to support Siemens Smart Infrastructure in performing a seamless, safe, and secure migration. This will enable Siemens Smart Infrastructure to benefit from the significant cost reduction, improved performance, enhanced system stability, agility, and scalability that the public cloud offers. Furthermore, the project paves the road for cloud transformation of further critical enterprise applications and for the future transformation of Siemens Smart Infrastructure’s ERP landscape.

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*“Atos is proud to further its collaboration with Siemens Smart Infrastructure with this strategic migration project. The launch of Atos OneCloud has sharpened our ability to help our clients optimize their processes using the public cloud, without having to sacrifice any of their security or business-specific requirements. Siemens SI’s renewed trust is a testament to our leadership in cloud migration services and transformation,”* said **Pierre Barnabe, Global Head of Manufacturing at Atos**.

*“The acceleration of digital transformation has taught us that we need to more and more leverage and rely on Cloud technologies to run our business, as they provide us superior service, agility and cost benefits. Atos has proven to be a dedicated and reliable partner for this critical transformation project for the fundamental SAP applications for Siemens Smart Infrastructure, and we trust they will support our teams with secure and industrial operations going forward”* said **Sébastien Bey, CIO of Siemens Smart Infrastructure**

## Product News

### ***Access millions of 3D CAD models powered by CADENAS directly in MegaCAD Metal & Mechanical Engineering***

19 August 2021

#### **Engineers & planners benefit from digital component information through new PARTS4CAD integration in Megatech CAD systems**

Megatech Software GmbH and CADENAS GmbH expand their close partnership of more than 20 years: Millions of 3D CAD models and the corresponding standards of more than 700 manufacturer catalogs of the Strategic Parts Management PARTsolutions are now directly available in the CAD software solutions MegaCAD Metal and Mechanical Engineering. Thanks to the seamless integration of PARTS4CAD Professional, users can find the desired CAD components within the component library directly in the MegaCAD software and configure them according to their needs. Inserting the digital, manufacturer-verified engineering data into engineering designs takes just a few clicks - and all this without intermediate storage or system changes.

#### **Engineering data accelerates product development processes**

The direct integration of intelligent engineering data into Megatech's pioneering software solutions is a real added value for engineers and planners and decisively accelerates product development. "Our long-standing, close partnership with Megatech is further intensified by the PARTS4CAD Professional integration. Both companies have the shared interest of effectively supporting designers and planners in their day-to-day work. We can fulfill this goal even better by cleverly combining innovative solutions," says Jürgen Heimbach, CEO of CADENAS GmbH.

The large selection of manufacturer catalogs powered by CADENAS offers the desired components for many applications, industries and systems. This now also includes MegaCAD Mechanical Engineering, which is mainly used by designers and medium-sized companies for (specialized) mechanical engineering, while MegaCAD Metal is used for the planning of canopies, industrial staircases, projecting balconies or doors and gates in steel, aluminum and stainless steel.

"The seamless integration of all common standard parts and manufacturer standard parts from PARTS4CAD in MegaCAD saves users the time-consuming search via other channels. Thus, the cooperation with CADENAS and the possibility to conveniently edit all inserted parts brings us another step closer to our goal of making CAD as easy as possible," says Volker H. Rürger, Product Manager Megatech Software GmbH.

## ***BIM 360 Design Collaboration Update – Supported Documents – August, 2021***

16 August 2021

Marco Ramolla is back on the Autodesk blog, this time announcing the update of Supported Documents in ACC and BIM 360 Design Collaboration. [Get the specifics at this link.](#)

## ***CCE's EnSuite-Cloud ReVue now supports multi-document collaboration***

17 August 2021

CCE, a leading provider of advanced CAD interoperability technology, announced that as part of a significant upgrade to its flagship real-time 3D Collaboration software, EnSuite-Cloud ReVue, it now allows users to load multiple 3D digital assets in the same collaboration session (“ReVue Room”).

Support for multi-document collaboration was available in EnSuite-Cloud ReVue only for assembly files, where users had the option of opening sub-assemblies or other individual components and toggle between them. With this new release, users can now load multiple individual 3D multi-CAD data (part files or assemblies) in a single ReVue Room and seamlessly toggle between them as they discuss the designs in the same collaboration session.

“Although it is true that EnSuite-Cloud ReVue is a great solution for discussing large data sets, like 3D assemblies, in real-time, we noticed that a lot of our user base still deals with individual part files as part of the same project they are collaborating on. These users have been consistently asking us for multi-document support to save them time spent on closing each file and opening the next one and creating a much more seamless collaboration experience. Multiple document support is especially important for supplier collaboration as each supplier may provide a complete component designed in a different CAD system that becomes part of the final product assembly,” said Vinay Wagle, CCE’s V.P. Sales & Marketing.

EnSuite-Cloud ReVue is CCE’s flagship real-time collaboration product using 3D digital assets while **maintaining complete control of the users’ intellectual property**. Participants can use 3D multi-CAD data from all major CAD formats like **CATIA V5, CATIA V6 (3DXML), SOLIDWORKS, NX, Creo, Autodesk Inventor, Revit, Solid Edge, JT, IFC and gITF**, among others, to conduct engineering design reviews directly in the browser or access it from an active CAD session using ReVue LiveLink. ReVue LiveLink is available for major formats like SOLIDWORKS, Inventor, Solid Edge, SketchUp, Revit among others.

Some of the key capabilities of EnSuite-Cloud ReVue include:

- **No software installation** or browser extensions required
- **Real-time collaboration** using 3D multi-CAD data - **no CAD licenses required**
- Integrated **conference call** facility
- **No storing** of proprietary design data on any server

"It is true that if you listen to your customers, your job becomes simple. We don't have a group of people making arbitrary product enhancement decisions. We have our ears to the ground. This latest update is proof of that. We are confident that this will be well received by our large user base that continues to use EnSuite-Cloud ReVue for a secure, real-time and truly seamless collaboration experience," added Vinay.

## ***EMA Design Automation and Digi-Key Electronics Collaborate to Offer New Supply Chain-Driven Design Product for OrCAD***

17 August 2021

EMA Design Automation®, a full-service provider and innovator of Electronic Design Automation (EDA) solutions and Digi-Key Electronics, which offers the world's largest selection of in-stock and ready-to-ship electronic components, have collaborated to release the OrCAD® Capture Bundle, a special offer available only on digikey.com.

This new design bundle provides the tools, data, and models needed to ensure first pass design success including:

- OrCAD Capture, the industry-standard schematic design solution
- In-design ability to search and select parts from Digi-Key
- Searchable cloud library of schematic symbols connected to Digi-Key parametric data
- Integrated sourcing tools to procure parts quickly and easily from Digi-Key
- OrCAD e-Learning, including certification opportunities

This unique collaboration furthers both EMA's and Digi-Key's goal of increasing the efficiency of engineers by providing the tools they need to streamline the design process. Now, engineers can focus on design, eliminate tedious tasks, quickly innovate, and keep the design process moving forward, all within a single unified design environment.

"We have always been focused on improving the engineer's workflow and providing them access to the data they need as they are making important design decisions," said Manny Marcano, President and CEO of EMA. "This announcement is an extension of our longstanding collaboration with Digi-key to enable engineers with best-in-class design methodologies and data."

With the current uncertainty in the global electronics supply chain, it is more critical than ever that engineers have access to the information they need to make informed part decisions. By connecting the vast Digi-Key database of part parametric information with the industry standard in PCB schematic design, engineers now have an integrated "supply chain ready" path to confidently create manufacturable designs quickly and accurately.

"Part availability and lead time are a huge concern for companies around the world," said Travis Foss, Product Manager, Semiconductors, at Digi-Key Electronics. "Enabling engineers to have a view into this data right at product conception gives design teams the foresight they need to make the right choices and go to production with confidence. Digi-Key is thrilled to be able to offer this unique solution."

## ***Introducing Upchain Cloud PDM and PLM All in One - Autodesk Blog***

8 August 2021

Following the May 2021 acquisitions of Upchain, Christa Prokos of Autodesk announced on August 8, 2021 the integration of Upchain PDM and PLM into Autodesk's software offerings. [Read the full blog post here.](#)

## ***Kubotek Works with 3Dconnexion on Next Generation Programs***

16 August 2021

The Kubotek development team has worked with 3Dconnexion to add support for their motion controller devices in the latest releases of our next-generation K-Compare and K-Display 3D CAD interoperability programs. 3Dconnexion has now certified these programs are in full compliance with their device drivers.

These Kubotek products, especially K-Compare, are designed for engineers primarily in the Aerospace industry who use Dassault CATIA, PTC Creo, Siemens NX, and SolidWorks CAD software. 3Dconnexion device support is an expectation of professional-grade software in that space. Adding 3Dconnexion support demonstrates Kubotek's commitment to making navigating through CAD data sets in these independent programs as familiar and efficient as possible for users of each of those CAD programs.

Our K-Compare and K-Display products were developed on top of a proprietary 3D framework built for comprehensive data exchange between all the major CAD programs which Kubotek launched in 2018 under the name Kubotek Kosmos. The four programs in these product families now in use by customers are;

- K-Compare Revision
- K-Compare Validate
- K-Display Convert
- K-Display View

## ***ModuleWorks Releases 2021.08 CAD/CAM Software Components***

13 August 2021

ModuleWorks announces the release of its 2021.08 CAD/CAM software components. This second ModuleWorks release of 2021 contains new and improved features across the entire product range, including new performance improving features for multi-axis machining, 2-axis machining and PrimeTurning™.

### **Automatic rest finishing for multi-axis machining**

This new feature for multi-axis machining automatically applies a rest finishing cycle to any remaining non-machined areas that could not be reached by the wall and floor finishing operations.

The wall and floor finishing operations carry information about which areas can be machined and which areas cannot. The new rest finishing cycle automatically extracts this information from the operations and creates a rest machining area that can be reached using a different tool with automatic tilting.

Operators can choose which areas to machine and which curves to use as guide curves.

### **2-Axis roughing and finishing in a single operation**

This new feature for 2-axis wireframe engraving enables operators to add a final profile pass to roughing operations. This accelerates the engraving process because roughing and finishing are now performed in a single operation.

### **Adjustable machining sequence for 2-axis engraving**

By selecting one of the new sorting options for the 2D wireframe engraving cycle, operators can adjust the sequence in which a part's features are machined. This makes it easy to apply the engraving pattern

to a wide variety of scenarios. There are automatic and manual options for defining the vertical and horizontal sequence of the engraving toolpath and an option that optimizes machining times by using the minimal link length.

## **PrimeTurning™ Clean-up pass**

The clean-up pass is a new feature for the PrimeTurning™ roughing cycle. After running the roughing cycle with the arc-entry operation, unwanted material is sometimes left in the corners of the stock. The new clean-up pass automatically removes the unwanted rest material to ensure clean, high quality roughing.

Further details about the ModuleWorks 2021.08 release are available in the latest ModuleWorks YouTube videos: [What's New in ModuleWorks 2021.08](#)

The ModuleWorks 2021.08 release is available now for download from the ModuleWorks website.

## ***PTC Academic Program Offers Free Downloads of PTC Creo Student Edition***

11 August 2021

Cat McClintock of PTC wrote a blog post detailing the release of free educational versions of PTC's Creo software. [Follow this link to read the full story.](#)

## ***Tower Semiconductor and Cadence Announce New Reference Flow for Advanced 5G Communications and Automotive IC Development***

16 August 2021

Cadence Design Systems, Inc. and Tower Semiconductor, the leading foundry of high-value analog semiconductor solutions, announced the release of a silicon-validated SP4T RF SOI switch reference design flow using the Cadence® Virtuoso® Design Platform and RF Solution. The reference design flow provides a faster path to design closure for advanced 5G wireless, wireline infrastructure, and automotive IC product development.

This new RF reference design flow leverages a comprehensive set of mixed-signal and RF design, simulation, system analysis and signoff tools that are tuned for Tower's CMOS, BiCMOS, SOI and Silicon Germanium (SiGe) process technologies. Using the new offering, joint customers can accelerate RF, mmWave and high-performance analog designs and increase signoff confidence.

"This unique RF and mmWave full-flow solution has been jointly validated on Tower's CS18 RF SOI foundry process," said KT Moore, vice president, product management in the Custom IC & PCB Group at Cadence. "Our ongoing partnership with Tower has generated yet another highly beneficial solution, enabling advanced IC design, which meets the requirements of today's most complex systems. Cadence and Tower customers benefit from an integrated workflow using an all-Cadence toolset and a Tower reference design to rapidly develop compelling products."

Tower's RF and high-performance analog design enablement solutions, PDKs and reference flows complement its best-in-class foundry wireless and wireline process technologies, including the CS18 and TPS65RS for RF-SOI and SBC18 for SiGe BiCMOS. RF and mmWave IC and package co-design has been a critical issue for Tower's customers, and they are now armed with silicon-validated tools and flows. Joint customers can design differentiated ICs optimized for cost and performance.

"We are excited to announce the expansion of our design enablement capabilities, providing our customers with new competitive advantages," said Mr. Ori Galzur, Tower Semiconductor Vice President of VLSI Design Center and Design Enablement. "Through our long-term collaboration with

## CIMdata PLM Industry Summary

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Cadence, a world-leading provider of highly advanced design tools, we are able to continuously deliver new and advanced design tools with unique features that best suit IC design requirements in leading markets, providing our customers with fast and accurate design cycle time.”

As frequencies move higher, the need for accurately incorporating multiphysics effects grows. As such, the RF and mmWave PDKs available from Tower now incorporate the Cadence Celsius™ Thermal Solver, EMX® Planar 3D Solver and Clarity™ 3D Solver technologies to seamlessly account for electromagnetic (EM) and thermal integrity of the design. The multiphysics analysis products complement the existing Cadence toolset in use at Tower, including the Virtuoso environment, Spectre® Simulation Platform, Quantus™ Extraction Solution, integrated Litho Physical Analyzer, and Innovus™ Implementation System.