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CIMdata News

27 July 2021

A Broad Approach to Quality Management - a CIMdata Commentary

29 July 2021

Closed-Loop Quality Solution Leverages Teamcenter Backbone

Key takeaways:

- Quality Management Systems must expand beyond a narrow focus of managing manufacturing repeatability and customer usage complaints. Exploring quality from the very start of a new idea, in the context of a trusted digital twin which comprehends changing consumer usage patterns and evolving manufacturing practices, will be the hallmark of leading products companies.
- As product complexity continues to expand, organizations will need quality management techniques applied across the complete lifecycle—this will require organizations to redefine roles and governance within PLM in the context of product lifecycle quality.
- Siemens Teamcenter enables the digital thread and management of product data flowing across the complete lifecycle supporting closed-loop quality and comprehensive digital twins.
- Siemens is introducing a set of Quality Management capabilities built upon Teamcenter’s lifecycle collaboration backbone solution including defining and managing a Bill of Quality.

CIMdata’s definition of PLM emphasizes the complete lifecycle of a product and all its related data, from requirements to actual performance, to planning, with supply chains, and then mass production and product upgrades. Quality Management Systems (QMS) have historically focused on manufacturing products consistently and improving product durability. Imagine applying QMS practices to all parts of an organization developing and operating products. The techniques of quality management can be applied to engineering processes, manufacturing processes, supplier processes, and even discoveries in new markets. Their use improves as PLM systems have enabled an accurate digital twin throughout the lifecycle.

As product complexity increases and with new and expanded features even being delivered while a product is in-service, a more expansive use of quality analysis methods is required. This comprehensive quality management paradigm assures product quality is earning the trust of customers and the OEM is rewarded with higher sales volumes and brand loyalty. This is broader than the notion of classical quality management systems using their own process and data silo applying statistical process control as though every manufactured item is a black box to be studied as a population of samples.

Expansion of Quality Management Responsibilities

Modern PLM ecosystems are well positioned to foster a Quality Management environment throughout the product lifecycle. Applying systems engineering (SE) principles anywhere in the lifecycle requires a quality management mindset where anomalies uncovered in FMEA, inspections, or complaints can be immediately evaluated with models and newly discovered use cases. Model-based quality management allows variation analysis to be digitally validated earlier in the product development process. Creating and sustaining an actionable, living digital twin annotated with failure insights and design/supplier weaknesses improves product quality management. Containment as well as preventive measures then become a pervasive, even natural, part of the engineering, manufacturing, and customer service processes. By using a digital twin, even supply chain improvements can be immediate with integrated

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quality management practices. The digital twin is used more and more to assess operational anomalies to understand whether an emerging field issue might be the bud of a quality problem.

At Siemens' Realize LIVE 2021 conference, Mr. Brian Sniegocki, Senior Business Analyst at Dana Corporation, presented his vision of how collaboration enables closed-loop manufacturing. To improve collaboration, one must integrate FMEA with CAD models with quality reports, across a product's lifecycle from inception through operations. He discussed how a broader quality management framework with effective data governance enables collaboration between various roles during each phase: planning, execution, manufacturing, and service.



*Figure 1—Too Many Silos / Documents Limit Data Collaboration
(Courtesy of Dana Corp)*

Figure 1 describes capturing the breadth and integration needs for key Quality and Systems Engineering (SE) work products. No more e-mailing electronic documents, rather have the information presented in the context of a product bill of materials (BoM) and a manufacturing bill of process (BoP).

To support this vision, a digital twin must be available on demand and accurate to the latest customer usage patterns. Many work products have traditionally been managed in separate IT systems, often with bespoke user interfaces tuned for authors, not readers and researchers. A digital transformation is needed to connect these work products well by having consistent product terminology. Master Data governance is an organizational best practice that provides a single dictionary for product, manufacturing, and operating terminology.

Competitive and complexity pressures require faster decisions made well. SE, Design for Six Sigma (DFSS), and design thinking are all skills which practicing engineers must embrace, regardless of their domain of expertise. Product requirements are best managed in a repository containing the authoritative truth that enables different views and analyses as product lines are conceived and enhanced. A bill of requirements (BoR) should be managed like a BoM, as part of the product's Bill of Information (BoI). The BoI is inclusive of all information related to a product covering its whole lifecycle.

By bringing model-based quality to reality, imagine doing variation analysis on digitally validated CMM / Inspection programming as part of dimensional planning and validation. With a capable PLM system, the designer can interactively see the effect of design choices on manufacturing's inspection BoP. Quality Management becomes closed loop all the time, even providing field insights as customers use products.

Modern PLM systems must not only manage these work products Mr. Sniegocki noted, but they also need to make finding and organizing views of the information more convenient than in the past siloed IT systems. His point is shared by most PLM leaders CIMdata has worked with. A Bill of Quality (BoQ)

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which is lifecycle wide and seamlessly and continuously aligned with the BoM, BoR, BoP, and BoI is needed.

Siemens Quality Management Solution Enables Lifecycle Bill of Quality

Siemens Quality Management Solutions will help customers bridge gaps between roles and work products which in turn improves collaboration. Siemens defines a Bill of Quality as shown in Figure 2.

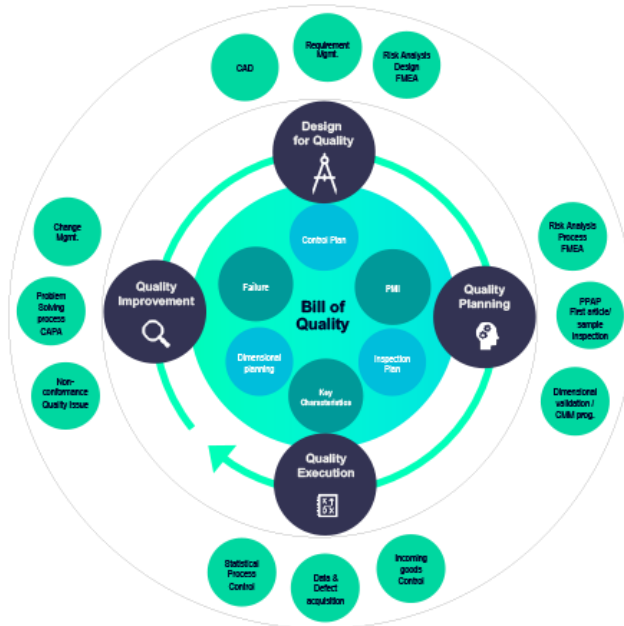


Figure 2—Bill of Quality Encompasses the Complete Lifecycle (Courtesy of Siemens)

Siemens recognizes that quality management’s value must extended beyond production to all core business processes for all product domains. This means breaking down diverse data silos (and allow for re-engineering the organization), providing a capable and flexible work product repository assisting complexity management, data sharing, and configuration management.

Figure 3 illustrates an extended architectural landscape to encourage Closed-Loop Quality, including ERP, PLM, and MES systems. Note how the swim lanes interact with the digital twin, which becomes elaborated with quality specifications and measures throughout the lifecycle.

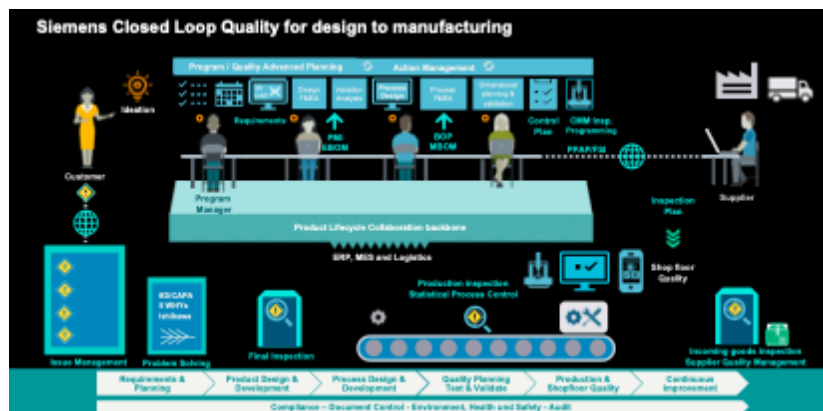


Figure 3—Product Lifecycle Collaboration to Support Closed-Loop Quality (Courtesy of Siemens)

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It utilizes Teamcenter to provide a Product Lifecycle Collaboration backbone. Using Siemens Mendix technology for open-systems integration with legacy (often competitive advantage) systems, the platform expands as the digital twin model(s) are used everywhere. Closed-Loop Quality broadens the domain of quality management to the complete closed-loop lifecycle of products.

Siemens Quality Management Solution Accelerates PDCA

Another view shared at Realize LIVE 2021 was a persistent, continuous feedback loop, as taught by Dr. Edward Deming, using Plan-Do-Check-Act (PDCA [1]). Learning and feedback to proactively repair and enhance products is driven by the Plan-Do-Check-Act cycles. An annotated digital twin provides context of the insights making Planning easier. Do & Check occur interactively with the model allowing Act to successfully proceed.

To address the master data integration challenges Siemens' holistic vision for quality management systems has adopted the PDCA paradigm applying it to connect key work products in the context of discovery and then application of lessons learned. The cycles are repeated until a solution is found and can traverse to early work products wherever the problematic conditions started. This leads to a holistic view of quality management rather than just a mass production view.

Data integration across formerly siloed applications is a key to success for streamlining quality management and keeping it "closed-loop" with continuous, contextual feedback encouraging a culture of quality within a company's value streams. Configuration and change collaboration within this continuous feedback loop will provide full traceability, making quality management more proactive than reactive, and thus much faster.

This holistic quality view improves systems designs for the entire lifecycle, rather than just stopping at manufacturing. Making sure products when placed in initial service and when upgraded perform better by leveraging digital twins and the digital thread. Figure 4 shows how Siemens integrates the PDCA cycles encouraging a holistic quality view.



Figure 4—Holistic Bill of Quality Encompasses Complete Lifecycle (Courtesy of Siemens)

The notion of the expanding Agile development's DevOps[2] into interconnected infinity cycles helps shift the mental model to one in which quality insights build trust continuously across the life cycle. As new field / phenomena results are captured, models and their simulations are improved, and quality risks and learnings are explored. It incorporates lessons continuously through improvements learned effectively.

Concluding Remarks

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Siemens Quality Management Solution provides a foundation to address the quality data integration and collaboration challenges laid out by key customers. CIMdata forecasts that companies connecting data well can realize significant productivity benefits using Siemens Quality Management Solutions. [3]

Setting a vision with this new Quality Management solution, Siemens customers will soon see benefits. Mr. Paul Elvinger, Executive Board member at Cebi says, “An important aspect in our digital transformation is to set up a common approach for managing product information and improve collaboration across Cebi’s global network, in which all actors bring their added value to meet customer expectations in terms of product innovation and quality.” [4]

This is what happens when the leading solution providers build on their strengths—in Siemens’ case their Xcelerator platform with Teamcenter as the collaboration and data management backbone, and openness to enable customers to accelerate learning and enhancement cycles. The Teamcenter backbone leverages low code (i.e., Mendix) services to encourage domain specialists to become citizen application developers-easing IT’s burden and systems integration challenges. With Mendix you can personalize your application user interface tailored to your business processes without limiting yourself to future system upgrades.

Finally, holistic Quality Management encourages linkages between silos of experts and their knowledge, driven by data. Too often silos remain when experts want to have their “way of working” explicitly supported in commercial tools, which was historically done in legacy bespoke applications. A required similar user experience is often the Achilles heel to broader quality management practices. Siemens QMS will provide another reason to embrace comprehensive digital twins.

[1] <https://en.wikipedia.org/wiki/PDCA>

[2] <https://en.wikipedia.org/wiki/DevOps>

[3] <https://www.plm.automation.siemens.com/global/en/series/siemens-quality-management-in-the-digital-era/99575>

[4] <https://www.plm.automation.siemens.com/global/en/our-story/newsroom/teamcenter-quality-enterprise-wide-quality-management/93227/>

CIMdata to Host Free Webinar on Systems Modeling and Simulation

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces an upcoming free educational webinar, “Education: Driving Systems Modeling and Simulation Understanding and Adoption.” The webinar will take place on Thursday, 26 August 2021, at 11:00 a.m. (EDT) and last for one hour.

In [previous webinars](#), we introduced Systems Modeling and Simulation (SMS). This approach leverages a common systems engineering and product data model encompassing benefits, requirements, platform, program, project, system definition, product structure, lifecycle, and configuration-management capabilities. These are the key enablers needed to reach higher systems modeling maturity levels and, in turn, help a company to reach and maintain a highly competitive position within the industries it serves.

Recognizing that the surrounding ecosystem with its culture and behavior must be brought into play and linked appropriately is critical. Knowledge about SMS and its elements are key to making a model-centric systems engineering approach part of a company’s overall digital transformation.

This webinar will help attendees:

- Understand the development challenges leading to a simulation-driven systems engineering

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environment.

- Realize how education improves the engineering maturity of organizations.
- Understand how SMS education can help businesses in their overall Digital Transformation.

According to Mr. Ed Ladzinski, CEO of SMS_ThinkTank and one of the hosts for this webinar, “In many companies, executives, management, and practitioners are overwhelmed by the rapid pace of today’s technology and its impact on organizations and processes. Typically, companies decide to investigate solution providers before identifying their digital transformation needs, resulting in ‘false starts.’ We offer this SMS training and certificate program to address these challenges and reduce the effort to embrace the much-needed transformation.”

This webinar focuses on the role that a well-defined and executed SMS training and certificate program plays in improving an organization’s engineering maturity while helping to speed the adoption of SMS and realize its full potential.

People from multiple levels in an organization will find the information valuable. Included are engineering executives, senior and middle managers responsible for simulation-driven projects, CAE and systems engineering subject matter experts and practitioners, and IT support analysts for engineering.

To find out more, visit: <https://www.cimdata.com/en/education/educational-webinars/education-driving-systems-modeling-and-simulation-understanding-adoption>.

Visit <https://register.gotowebinar.com/register/1849453736020272912> to register.

Acquisitions

3D Systems Announces Sale of Medical Simulation Business – Symbionix

28 July 2021

3D Systems announced it has signed a definitive agreement to sell its medical simulation business, Symbionix, to Surgical Science Sweden AB (Nasdaq First North Growth Market:SUS), a leading supplier of virtual reality simulators for medical training, for a purchase price of \$305 million, subject to customary closing conditions and adjustments. This action will complete 3D Systems’ initiative to divest non-core businesses in order to focus exclusively on its strategic purpose as the leader in enabling additive manufacturing solutions for applications in growing markets that demand high-reliability products.

“Over the last several months, 3D Systems has divested a number of assets that are not core to our industry-leading additive manufacturing solutions business,” said Dr. Jeffrey Graves, president & CEO, 3D Systems. “The final of these is our Symbionix business, under the leadership of Ran Bronstein, which has secured a strong position in the medical simulation, training and robotic surgery market. As the Symbionix team now joins forces with Surgical Science, I believe their future will be even brighter, with increased scale and an ability to leverage the core strengths of both businesses in a growing medical simulation market.” Dr. Graves continued, “The proceeds from this sale, combined with previously announced divestitures, will leave us in a strong position, with a cash balance of approximately \$500 million and no debt. Having reorganized the company into two business units - Healthcare and Industrial Solutions - and restructured to drive operational efficiencies over the last year, we now move forward expecting strong organic growth and profitability, at both a gross margin and EBITDA margin level, and positive operating cash flow capable of sustaining the investments needed to meet increasing customer

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demand for additive technology. With our scale, our industry-leading breadth of technology, which spans polymer and metal solutions, and an applications focus that is proving successful in accelerating customer adoption of additive manufacturing, we are very well positioned to remain a leader in the additive manufacturing industry.”

Earlier this year 3D Systems announced initial investments to bolster its leadership position with the **acquisition of Allevi, Inc. and Additive Works** to build its bioprinting and software portfolios, respectively. It has also announced planned expansions of its facilities in Rock Hill, South Carolina and Littleton, Colorado to address rising customer demand for additive manufacturing technologies. Additionally, the company recently **expanded its technology leadership team** by welcoming Dr. David Leigh as its new Chief Technology Officer for Additive Manufacturing to expand and accelerate application development and product innovation including all hardware, software, and materials development for production-scale additive manufacturing solutions. Dr. Leigh’s arrival has enabled 3D Systems’ co-founder, Chuck Hull, to increase his emphasis on biotechnology as Chief Technology Officer for Regenerative Medicine, leading the development of solutions that are creating exciting new opportunities in regenerative medicine.

Through this transaction, Simbionix will be integrated with Surgical Science to form a market-leading company in the simulation of medical procedures, including advanced robotic surgery. Simbionix complements and strengthens Surgical Science’s position with a broad portfolio of simulators in areas such as general surgery, endovascular procedures, endoscopy, urology, orthopedics, ultrasound, and robotic surgery. Simbionix also brings long-established collaborations with leading medical technology companies and academic institutions that are at the forefront of developing new robotic surgery technology and operating procedures.

Simbionix reported sales in 2020 of \$40.8 million. 3D Systems expects completion of the Simbionix transaction to occur in August 2021.

Accenture Acquires Openmind in Italy to Help Clients Reimagine Commerce Experiences

29 July 2021

Accenture has acquired Openmind, a boutique commerce agency in Italy with key capabilities in cloud-based platforms, to meet client demand in the rapidly growing commerce market and deliver transformative experiences.

Notably the first acquisition for Accenture Interactive in the country, Openmind boasts a multidisciplinary consulting approach in the areas of commerce, content, strategy, experience design and technology, which will enhance Accenture Interactive’s capabilities to deliver greater operational excellence to clients across all industry sectors, particularly luxury and fashion. Terms of the transaction were not disclosed.

Spurred by the pandemic, the Italian fashion industry has rapidly accelerated towards ecommerce and online sales and expects to see double-digit growth in the next three years¹, resulting in the need for requisite skills to deliver data-driven, human-centric digital experiences across connected platforms and leading cloud technologies. The acquisition of Openmind will continue to scale Accenture Interactive’s commerce capabilities in the region, offering clients strategy and implementation of seamless commerce experiences on platforms including, Adobe, Salesforce and SAP along with helping meet clients’ ambitions for international expansion through Accenture’s global delivery network.

“We are delighted to welcome the Openmind team who will join us in our mission to drive greater

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impact and commerce efficiencies for our clients in Italy and around the world,” said Massimo Morielli, president of Europe for Accenture Interactive. “The pandemic accelerated the shift to buying things online in a major way and has opened up a world of opportunities to brands to transform the commerce experience. They cannot ignore the direction their customers are heading in and the deep experience of the Openmind team will ensure our clients have the tools needed to create these seamless experiences.”

Founded in 2004, Openmind, based in Monza, Italy, works with some of the world’s leading luxury and fashion brands and was recently named in the Financial Times’ FT 1000: Europe’s Fastest Growing Companies list. Approximately 110 employees from Openmind will join Accenture Interactive in Italy, bringing deep technical skills and a proven reputation with clients.

“The future cannot be predicted, but we can help build it,” said Ivano Cauli, CEO of Openmind, “We are excited to join the Accenture Interactive team to help deliver superior commerce solutions by using the power of leading platforms to transform the commerce experience. We are thrilled to be able to further our mission through Accenture Interactive’s proven track record as a leader in the industry, which we are confident will drive success and growth for clients.”

Accenture Interactive’s commerce offering is centered on supporting clients design and implement transformative experiences for the consumer, offering expertise in emerging platforms and modern commerce architectures such as headless and composable commerce.

Accenture Completes Acquisition of Ethica Consulting Group

29 July 2021

Accenture completed its acquisition of Ethica Consulting Group, a group of technology companies based in Italy that provides advanced software and professional services. The intent to acquire was announced on July 1.

Ethica Consulting Group helps companies reinvent their business processes by developing and implementing cloud-based solutions using SAP® technologies and has expertise in several industries including manufacturing, services and retail. Adopting these technologies can help companies increase operational efficiencies and provide a better customer experience.

The acquisition will strengthen Accenture’s capabilities in delivering digital transformation for clients and enabling them to develop innovative products and services using SAP solutions. The company’s approximately 400 SAP specialists will join the Accenture SAP Business Group in Italy to help meet accelerated demand for SAP’s cloud-based solutions locally and will benefit from access to Accenture’s global resources and skills.

Atos acquires Visual BI to enhance its ability to address customers’ increasing need for analytics in the cloud

27 July 2021

Atos announces it has reached an agreement to acquire Visual BI, one of the leading and fastest growing firms focusing exclusively on Cloud Data Analytics and Business Intelligence in the US. Visual BI is a Snowflake Elite partner, Microsoft Gold Partner for Data & Analytics and is an SAP partner. The company also supports the technology platforms from market leading partners such as Fishtown Analytics, Fivetran, Tableau, HVR Software, Qlik, Theobald Software and Alteryx.

By adding Visual BI’s cloud data-related capabilities, consulting services and partnerships to its technology portfolio, Atos will enhance its ability to address customers’ increasing need for BI and

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analytics in cloud environments. Atos will also benefit from the expertise of Visual BI's 180+ employees worldwide, based in the United States, Canada, and India, who will reinforce its *Data Analytics* and *Cloud Enterprise Solutions* practices.

This operation, together with the acquisition of Maven Wave in 2020, reinforces Atos's strategic vision for data and cloud as the foundations of digital transformation. The Group aims at supporting organizations in their entire cloud data journey, from data centralization to high-value insight delivery.

Founded in 2010 and headquartered in Plano, Texas (US), Visual BI is an end-to-end BI & Analytics enablement provider offering expert consulting services, analytics solutions and end-user training.

"Atos has made it its mission to help businesses easily and safely mobilize and leverage data from multiple sources to fuel decision making. With the acquisition of Visual BI, we gain access to a broader set of analytics capabilities and tools, greatly enhancing our customers' ability to tackle their most complex business challenges using data," said **Wim Los, SVP Cloud Enterprise Solutions at Atos**. *"This strategic acquisition allows us to further accelerate our global leadership in data-driven transformation, in line with the recent launch of our Atos Digital Hub initiative."*

"My team and I are super excited to bring our culture, technical expertise and world class client relationships to the illustrious Atos brand. Our technical and operational synergies will result in a clear victory for our clients as we accelerate their Data, AI and Analytics journeys," said **Christopher Holliday, Senior Vice President, Client Management, Visual BI**.

"I am very excited to have this opportunity to bring these two great organizations with amazing employees together to help clients' accelerate modernize their data and analytics journeys in the cloud. This integration is a great blend of strong technical experience and industry expertise to deliver impactful value to our customers," said **Gopal Krishnamurthy, Founder and CEO, Visual BI**.

Atos expands its manufacturing capabilities with the acquisition of IDEAL GRP in the Nordics

27 July 2021

Atos announced that it has completed the acquisition of IDEAL GRP, a Product Lifecycle Management (PLM) system integrator and platinum-level solution partner of Siemens Digital Industries Software, headquartered in Finland. IDEAL GRP offers consulting, integration, software and maintenance services for businesses in the manufacturing sector. The acquisition will add a highly skilled team of approximately 100 experts to Atos with double platinum status.

The past few months have exposed the fragility of modern supply chains, leading manufacturing organizations to accelerate their digital transformation in the search for increased resilience and operational excellence. PLM provides a product information backbone by integrating data, processes and business systems.

Building on the acquisition of PLM specialist Processia in June 2021, the operation is aligned with Atos' industry-specific strategy and will reinforce its PLM and Engineering Solutions franchise, while also expanding the Group's footprint in Northern Europe. Atos will provide the resources, experience, and confidence to allow IDEAL GRP to focus entirely on delivering the products and services needed by medium sized and large enterprises to successfully deploy transformational Industry 4.0 initiatives.

Founded in 1992, and headquartered in Vantaa, Finland, IDEAL GRP has a strong and longstanding partnership with Siemens, built on around 30 years of cooperation. It is a leading player in the Nordics market with offices in Finland, Sweden, Norway, Denmark and Estonia.

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“Manufacturers produce endless quantities of data at all stages of a product’s life cycle, which is an invaluable asset but becomes a true challenge when it comes to using all this data to make better products. This is where PLM systems come to the rescue and prove to be a key enabler for Industry 4.0.” said Pierre Barnabé, Head of Manufacturing Industry at Atos. “We look forward to working with IDEAL GRP to help our customers in the manufacturing industry on their journey to sustainable digital transformation”.

“Over the past years IDEAL GRP customers have seen the significant change of PLM becoming more strategic and integrated, touching the whole value-chain of manufacturing. With Atos, we are now fully equipped to provide truly global and scalable services while maintaining the close relationship and local agility with our customers in the Nordics and Baltics. We believe that transformation will only accelerate, and we are excited to have the opportunity to work with Atos to help our customers create a digital advantage at the heart of this dynamic evolution. The long-lasting and strategic partnership between Atos and Siemens combined with the breadth and scale of Atos’ portfolio of offerings makes this an exciting opportunity for IDEAL GRP customers and our people.” said Jaakko Hartikainen, CEO at IDEAL GRP.

“Atos globally is a highly valued partner deploying next generation solutions by using the world’s leading portfolio of Siemens Digital Industries Software. Together with IDEAL GRP in the Nordics, their combined expertise will further drive the digital transformation of our customers with deep local expertise and a truly global backbone and investment capability. We are truly excited to see this happening” said Mats Friberg, Vice President & Managing Director, Nordic Operation at Siemens Digital Industries Software.

Atos strengthens its leading position in HPC cloud enablement and acquires leading global HPC cloud platform provider Nimbix

27 July 2021

Atos announced it has reached an agreement to acquire Nimbix, a global leading high-performance computing (HPC) cloud platform provider based in the US, to strengthen its HPC offering. With this acquisition, Atos, already a European leader in HPC, enhances its existing capabilities and position itself as a leader in HPC cloud enablement.

Established in 2010 and headquartered just outside Dallas, Texas, Nimbix offers cloud and on premises HPC, giving engineers and scientists access to infrastructure and software needed to build, compute, analyze, scale, and deploy simulations, Artificial Intelligence, Machine Learning and Deep Learning applications. The company has executed thousands of cloud HPC projects in 68 countries.

Atos’ and Nimbix’s combined capabilities offer a comprehensive solution for workload orchestration for both on-prem and cloud customers. The joint solution enables higher levels of self service and automation, enhancing Atos’ capabilities with multi-cloud bursting and hybrid capability. This will enable Atos to expand its market offering and reach with a strong proposition in HPC cloud, under the Atos brand as part of its OneCloud initiative. The unique intellectual property provided by Nimbix will accelerate Atos’ HPCaaS developments and go-to-market plans with Cloud Services Providers, as well as increasing and accelerating Atos’ HPC footprint in North America. It will also help strengthen Atos’s HPC propositions in key markets such as Manufacturing, Financial Services & Insurance, Healthcare & Life Sciences in addition to Public Sector & Defense, by simplifying the access to HPC services without heavy up-front CAPEX.

Nimbix is able to leverage Atos’ global footprint and industry-leading supercomputing and artificial

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intelligence infrastructure portfolio to deliver ground-breaking capabilities for enterprises advancing hybrid cloud as part of their strategies for HPC and AI.

“Two-thirds of HPC users are already incorporating cloud computing as part of their overall strategy, and that number continues to grow. We’ve seen double-digit growth in cloud for five years, and that trend will continue for the next five. But it’s important to realize that these are hybrid strategies, in which cloud resources are complementing on-premises computing, not replacing it. The Atos acquisition of Nimbix addresses this trend precisely, wrapping hybrid cloud know-how with domain-specific HPC expertise. The reach and experience of Nimbix will give Atos reach to more HPC users and use cases.” said **Addison Snell, Chief Executive Officer at Intersect360 Research**

“HPC Cloud is growing year-on-year and 2021 represents a tipping point where an increasingly large portion of the global HPC market is adopting cloud as a core part of its HPC strategy. With this acquisition, we will be able to complement our existing HPC offering and expertise with a comprehensive solution, providing customers with the most advanced hybrid cloud capabilities to better manage the use, performance and delivery of services for both cloud-native and on-prem deployments. Nimbix’s technology is ahead of the market and, combined with its strong experience and highly skilled experts, will strengthen the Atos teams and enable us to expand our market offering and reach.” said **Pierre Barnabé, Senior Executive Vice President, Global Head of Big Data & Security at Atos.**

“Having pioneered advanced HPC capabilities in cloud computing over the last many years, we are very excited to join forces with Atos, a global leader in HPC infrastructure and digital transformation. We are confident that our combined capabilities bring new solutions and offer significant value to our respective clients. We look forward to enabling our mutual customers to accelerate their rate of innovation with our combined HPC offerings.” said **Steve Hebert, CEO and Co-founder of Nimbix.**

Nemetschek Group Brands Graphisoft and Data Design System Joining Forces to Further Expand Integrated, Multi-Disciplinary Building Design Solutions

30 July 2021

The Nemetschek Group, one of the world’s leading software providers for the AEC/O industry, today announced that its brands Graphisoft and Data Design System will merge to create a strong and customer-focused product portfolio of BIM solutions for integrated multi-disciplinary workflows. Combining the technology and know-how of Graphisoft – the global leader in Building Information Modeling (BIM) software solutions for architecture – and Data Design System (DDS) – the mechanical, electrical and plumbing (MEP) engineering design specialist – will significantly enhance the companies’ offerings to users around the world.

By integrating DDS’ MEP domain capabilities with Graphisoft’s technology platform and global go-to-market position, the merger will leverage each brand’s complementary capabilities and strengths, spurring further growth. “The merger is a key realization of the Nemetschek Group’s unique opportunity to deliver broad, integrated value propositions to the AEC/O industry. Driven by the Group’s strategic focus to leverage synergies amongst the brands, we are convinced that the merger will accelerate growth for the Nemetschek Group as a whole and strengthen our global market position,” says Viktor Várkonyi, Chief Division Officer, Planning & Design Division and Member of the Executive Board of the Nemetschek Group. “It is exciting to see how both teams are embracing the opportunities and the technology gains to deliver best-in-class solutions globally.”

Since its founding in 1982, Budapest-based Graphisoft's mission has been to empower architects and

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building professionals with the technology and know-how necessary to create great architecture. Graphisoft's industry leading technology platform Archicad – including their Building Information Modeling (BIM) software solution – is used by architects and designers around the world and has been instrumental in the design of some of the world's most iconic buildings. Graphisoft joined the Nemetschek Group in 2007.

“Merging DDS, with its best-in-class capabilities for MEP professionals, and Graphisoft, with its leading BIM and design collaboration technology platforms, will bring greater value to engineers and designers worldwide through integrated multi-disciplinary workflows,” says Huw Roberts, CEO, Graphisoft.

Founded in Norway in 1984, Data Design System (DDS) develops innovative software solutions under the brand of their Open BIM product family DDS-CAD, which provides the perfect tools for MEP experts who plan and design building services projects. DDS joined the Nemetschek family in 2013 and is a market leader in Central Europe.

“I'm convinced that strengthening our MEP capabilities with Graphisoft's technology platform and global reach will bring added value to our customers on a global scale,” adds Bjørn K. Stangeland, CEO, Data Design System.

The merger of Graphisoft and DDS in the Planning & Design Division is another strategic step in harmonizing the Nemetschek portfolio and increasing value for its customers.

Company News

HCL TECHNOLOGIES NAMES JILL KOURI AS GLOBAL CHIEF MARKETING OFFICER

28 July 2021

HCL Technologies announced Jill Kouri's addition to the executive team as Chief Marketing Officer. A top marketing executive with nearly 30 years of corporate and agency B2B services experience, Kouri will lead the company's global marketing programs to advance HCL's focus on helping companies reimagine their business for the digital age.

“As HCL continues to drive its strategy to be the digital partner of choice for global enterprises and reinforce its industry-leading ESG practices, it is imperative to strengthen our marketing leadership,” said C Vijayakumar, CEO and Managing Director, HCL Technologies. “Jill brings rich experience in areas from purpose articulation and global brand building to demand generation and sales enablement, and we are thrilled to welcome her to our leadership team.”

Kouri joins HCL Technologies most recently from JLL (NYSE: JLL), where she was Chief Marketing Officer, Americas, for seven years. Prior to that, she spent 14 years in increasingly senior marketing leadership roles at Accenture.

“While I was familiar with HCL Technologies at a high level, I was completely in awe of the organization's rich history, culture and focus on innovation and entrepreneurial mindset,” Kouri said. “HCL is at a critical point in its journey, having reached the \$10 billion revenue mark, and I am excited to lead the efforts to create more widespread brand awareness and affinity, all while driving a very strong growth agenda.”

Kouri is a very strong advocate and driver for purpose and D&I initiatives. She is a board member with FGM Architects, and is involved in several non-profit initiatives including Dress for Success, where she

is part of the Midwest Advisory Council. Kouri earned her bachelor's degree in Journalism from Bowling Green State University and has APR (Accreditation in Public Relations) certification from the Public Relations Society of America.

Simulation shows athletes face dangerous conditions at Tokyo Games as heat risks pushing runners over 39 degrees Celsius 'tipping point'

28 July 2021

Engineers at Hexagon's Manufacturing Intelligence division, whose simulation software is used by manufacturers such as Airbus, Toyota, and Samsung, simulated the effects of the hot, humid conditions on a male athlete competing in the 10,000m race (the longest stadium-based track race). Despite the race taking place after sunset, the simulations show athletes still face gruelling conditions.

The simulations show that even under average conditions of 27 degrees C (80.6 F) and 70% humidity, runners of the 10,000m could experience core temperatures of above 39 degrees C (39.07 or 102.3 F). A temperature of above 38 degrees C (100.4 F) is considered feverish and research shows that humans need to maintain their core temperature between 35 and 39 (95 and 102.2 F) for optimal functioning of biochemical reactions. People exposed to "feels like" temperatures (i.e. how the temperature feels to the individual) above 32.2 degrees C (90 F) run the risk of heatstroke, heat cramps, and heat exhaustion.

There has been growing concern over the decision to hold this year's games in Tokyo's sweltering summer, with experts warning "You should never run in this kind of heat and humidity". Tokyo's average temperatures in late July and early August are the highest for any host city going back to 1984, and the last time Tokyo hosted the games in 1964, officials moved the games to October due to similar concerns over the heat. Heatstroke is likely to be the biggest weather-related threat to participants, which is caused by prolonged exposure to high temperatures and humidity with little to no wind and can result in fainting, seizures, or general exhaustion.

To show how close athletes could come to the detrimental impact of the heat with just a few degrees' temperature change, the engineers simulated two different scenarios:

- Hotter than average conditions: negligible wind speed, 32 degrees C air temperature and 90% humidity
- Average conditions for the time of year: negligible wind speed, 27 degrees C air temperature and 70% humidity.

The simulations show the considerable impact a slight weather change can make. If the air temperature rises to just five degrees above average, the simulated core temperature increases to 39.77 degrees C (103.6 F) and skin temperature to 37 degrees C (98.6 F).

In addition, in the hotter of the two scenarios, athletes' core head temperature could reach over 40 degrees (104 F), while even in average conditions the head core temperature could be 39.2 degrees C (102.6 F). Of all organs, the brain is one of the most vulnerable to heat, which can change the delicate neural activity patterns leading to neuronal death and seizures. The thighs and pelvis (both 40.7 degrees C or 105.3 F) are other areas of the body shown to be susceptible to particularly high core temperatures if the air temperature edges above the average.

Humidity will also play an important factor in athlete performance and health. Average humidity for Tokyo in July is 70%, but if humidity rises to 90% athletes will sweat an average of 810ml (almost 1.5 pints), compared to 630ml (approximately 1.3 pints) over the duration of the approximately 30-minute race. While sweat helps the body cool down by evaporating on the skin, on humid days when the air is

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already carrying a lot of moisture, our bodies lose much of the cooling effect of evaporation, so the effect on the athletes in these conditions is exacerbated. At the same time, dehydration accelerates the rise in whole-body temperature, further exaggerating the impact.

This simulation focuses on the 10,000m as the longest track race taking place in the stadium, but the findings offer insight into the tough conditions facing all athletes at the Games, particularly those in high-endurance events, and those competing in the scorching midday temperatures which could reach above 30 degrees C (87.8 F). Climate change has been highlighted as a key factor in Tokyo's rising temperatures, with the average temperature having risen by 2.9 degrees C since 1900, more than three times faster than the global average rise.

To create these simulations, the engineers used Computational Fluid Dynamics (CFD) – the discipline of simulating thermal / fluid phenomena. Hexagon's Cradle CFD software utilises unstructured mesh to accurately represent complicated geometry. The software is commonly used to design air conditioning systems, understand driver comfort and even design more efficient tumble driers.

The simulated conditions include wind speed and humidity, the heat generated by athletes over 30 mins (approximate duration of the race), and the airflow generated by the running motion. The athlete's body comfort is analysed using the JOS-2 Joint System Thermoregulation Model (JOS model) developed by a research group at Waseda University, Japan. The JOS model can consider body size, gender and age of humans in calculations. By combining the thermoregulation model and CFD (computational fluid dynamics) the effects of changes in the surrounding environment on core temperatures and the skin throughout the body can be analysed.

Keith Hanna, VP Marketing for Design & Engineering, Hexagon's Manufacturing Intelligence division said: "There's been much discussion about the decision to hold the Games in the Tokyo summer. These simulations show the extreme conditions that athletes will be competing under. Athletes are accustomed to pushing themselves to the limits and these simulations show how racing conditions impact performance as well as the risks undertaken when the human body is pushed to extremes. What's most interesting is the small margins of change – a couple of degrees shift in temperature can have a huge impact, so it's only a matter of time to see whether we edge over that 39 degree C core temperature 'tipping point'."

Avishtech To Join Altium's Nexar Partner Ecosystem

22 July 2021

Avishtech, a leading provider of innovative EDA stack-up and 2D field solver solutions, has joined Altium's Nexar partner ecosystem. Avishtech joins a growing list of Nexar partner organizations, including Arduino, Arrow, Diotech, Keysight Technologies, Microchip, Samtec, and Ultra Librarian.

Nexar software partners are growing their businesses while transforming the electronics design, development, and manufacturing process from isolated tool chains and disconnected processes into a streamlined, next generation workflow that is connected by a comprehensive data model for printed circuit boards. Nexar software partners connect mechanical CAD, CAM, CAE, PLM, and other applications that are relevant in the design and realization of electronics to the Altium 365 cloud platform.

Avishtech plays an important role in the Nexar ecosystem. Avishtech's Gauss Stack and Gauss 2D PCB tool sets provide capability to simulate signal integrity, manufacturability and reliability behavior.

Gauss Stack enables thermomechanical simulations that can predict reliability, warpage and manufacturability issues like resin starvation and glass stop. Gauss 2D provides first-of-its-kind accurate

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loss modeling that accounts for ground plane losses and broad extraction of dielectric properties and conductor roughness parameters. Their capabilities are unique in the electronics design industry, providing a bridge between simulation and the real world, empowering greater accuracy and the Computational Prototyping of PCBs.

As Keshav Amla, Avishtech's Founder and CEO, elaborates, "We developed our Gauss offerings by looking at the pain points in the industry and working to solve them—on the signal integrity side, we honed in on the pain point of inadequate loss modeling in the existing offerings; similarly, we saw that PCB reliability and manufacturability were not aspects one could predict, but only measure, through prototypes or, even worse, by dealing with field failures so we honed in on these as well."

Expanding Existing Simulation Capabilities

In May 2021, Avishtech launched its Gauss Synthesis Online Simulation and Design Service. In addition to providing value-add services such as Dimensional Stability simulations and design-to-requirement services, this service enables those customers that don't require a full-on subscription to Avishtech's Gauss Stack and Gauss 2D PCB toolsets to take advantage of the capabilities provided within them on an as-needed, on-demand basis without having to run these simulations themselves. This serves to effectively democratize and simplify the PCB development process, and enables Avishtech to support all types and sizes of customers, be they designers, OEMs, or PCB shops.

The Gauss Synthesis innovation makes Avishtech a natural fit for Nexar. "We're interested in engaging partners who cover the entire spectrum of electronic design needs," explains Ted Pawela, Chief Ecosystem Officer at Altium. "Our partnership with Avishtech helps us further transform the electronics design industry by bringing essential simulation tools that designers need to the Altium 365 platform."

"The design process is a bit fragmented because each step involves different people and software tools. There's a good amount of data that needs to be exchanged back and forth between product development teams, resulting in multiple sets of data that have to be created, instead of being able to rely on a single data set for multiple uses. Being able to push/pull data during the design process removes that friction and helps to streamline the design and development process," Amla explains.

As a Nexar partner, Avishtech will be able to harness the power of Altium 365, the world's only cloud platform for printed circuit board design and realization, to help automate the data exchange process between Altium Designer and their simulation tools.

"Design processes should be more straightforward. Avishtech looked for what was missing in the ecosystem and built software that models reality better than anything else on the market. Nexar does the same thing for data exchanges; it's something that should have existed but didn't. Both Altium and Avishtech are working towards the same goal," Amla concludes.

Bluebeam and The BIM To Recognize the World's Most Inspiring Construction Stories With Construction Story of the Year Award

26 July 2021

Bluebeam, Inc. and The BIM announced the launch of the Construction Story of the Year award, a first of its kind for the architecture, engineering and construction (AEC) sector – to shine a spotlight on the people and projects that have made a uniquely positive impact on the industry and promoted change in the Built Environment.

The BIM, in partnership with Bluebeam, has launched a submission website and is currently accepting entries from individuals with stand-out stories about a broad spectrum of innovative approaches, from

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technological problem-solving to sustainable innovations, the use of eco-friendly materials, addressing crises like climate change and the housing shortage, or describing programs designed to improve diversity and inclusion on site.

“Behind every build project is a story: unexpected problems, clever solutions, and challenges that are overcome in the end,” Don Jacob, VP, Technology & Innovation, Build & Construct Division, Nemetschek Group, and founding team member of Bluebeam explained. “The trouble is, we rarely get to hear about them. This is a great opportunity to share those stories and show what it takes to create those transformative endeavors that shape our world.”

“The construction industry is not very good at shouting about itself,” explains The B1M Founder and Managing Director, Fred Mills. “Most people don’t really understand this important sector and what it can achieve. Engineers, architects, construction managers, urban planners, and all kinds of other people in this industry are working tirelessly to make our world a better place. These stories deserve to be celebrated.”

Since 2002, Bluebeam’s innovative technology solutions have set the standard for collaboration and workflow efficiency for architecture, engineering and construction professionals worldwide. More than 2 million builders in over 135 countries trust Bluebeam solutions to help them get more done in less time. The B1M is the world’s leading video platform for architecture and construction, with a YouTube channel boasting over 1.8 million subscribers and 18 million organic monthly views.

Entries are open from today until Friday, September 3, 2021. Finalists will be decided on by a panel of industry experts and the winner will be announced during a live event on October 27, 2021.

The winner will be featured in an extended interview and documentary with The B1M’s Fred Mills, and have their story promoted through The B1M and Bluebeam’s platforms, live speaking opportunities at The B1M events and a commemorative trophy.

HCL TECHNOLOGIES SELECTED AS A STRATEGIC LAUNCH PARTNER FOR MICROSOFT CLOUD FOR FINANCIAL SERVICES

26 July 2021

HCL Technologies (HCL), a leading global technology company, announced it was selected as a launch partner for Microsoft’s recently announced industry cloud – Microsoft Cloud for Financial Services.

Microsoft Cloud for Financial Services brings together capabilities with multilayered security and comprehensive compliance coverage to deliver differentiated customer experiences, improve employee collaboration and productivity, manage risk and modernize core systems.

“We partnered with Microsoft in this key initiative because they will enable our HCL Financial Services Ideapreneurs to incorporate their decades of domain expertise into a futuristic hyperscale foundation,” said Rahul Singh, President, HCL Financial Services. “What our clients gain is a synergistic co-innovation effect: Microsoft surfacing new capabilities and HCL building differentiating solutions with our clients and partners.”

One key solution is HCL’s PowerBanking product, built to leverage all available capabilities of the Microsoft Cloud for Financial Services. It enables comprehensive scenarios for retail bank customer engagement. Building upon offerings such as this, HCL Microsoft Ecosystem Unit (HCL MEU) works with a set of clients in private preview to use the current and future reusable components designed for retail banking in new customer scenarios.

Our strategic partners like HCL Technologies play a critical role in enabling the Microsoft Cloud for

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Financial Services and elevating the digital transformation journey for our customers,” said Bill Borden, Corporate Vice President of Worldwide Financial Services, Microsoft. “Banking customers working with HCL’s deep expertise in retail banking can take advantage of a tailored cloud solution built on Microsoft’s trusted platform with robust security and compliance to speed time to value while unlocking innovation for sustainable growth.”

“Similar to our Microsoft Cloud for Healthcare initiative, we used our long-standing relationship with Microsoft and our global Financial Services Industry capability to rally support and engage across HCL service lines,” said Kalyan Kumar, Chief Technology Officer and Head of Ecosystems for HCL Technologies. “In HCL, Microsoft has a comprehensive co-innovation technology partner that can help realize the product’s true and vision of the Microsoft Cloud for Financial Services.”

Just 10% of global businesses are front-runners in inclusion and diversity practices within their technology functions

23 July 2021

90% of global businesses struggle with inclusion and diversity practices within their technology/ IT teams according to ‘*The key to designing inclusive tech: creating diverse and inclusive tech teams*’ report released by the Capgemini Research Institute. Current inclusion and diversity practices in technology are inadequate. Recognition of a lack of inclusion from the top is a key enabler to access diverse communities. Organizations that focus on diversity and inclusion in their tech teams will benefit from innovation, revenue, and brand value opportunities, highlights the report.

Over the course of the pandemic, great pressure has been placed upon businesses to recruit tech talent from a shrinking pool. As enterprises have struggled to find the appropriate talent to fulfil their needs, the focus on good diversity and inclusion practices has slipped. A gulf has emerged between the leadership’s positive perception of inclusion in IT and tech teams and the harsh reality experienced by ethnic minority and female team members. According to the report, 85% of leadership executives believe their organizations provide equitable opportunities for career development and promotions to every employee across their organizations, but only 19% of women and ethnic minority employees agree. This misalignment adds to a perpetuating Diversity Equity and Inclusion (DE&I) problem across industries deploying technologies for end-users as leaders believe progress is being made, but tech employees on the ground remain pessimistic about the reality. The spectrum of the perception gap is vast. 75% of leadership executives believe that women and ethnic minorities feel a sense of belonging in their organizations, but only 24% of these employees in tech functions concur. 53% of women and ethnic minority employees feel comfortable sharing personal experiences with other employees and peers, whereas only 9% of them feel the same comfort level with their leadership.

Only 16% of women and ethnic-minority tech employees believe that they are well represented in tech teams. Further, in IT/tech teams, only one in five employees is female, and one in six is from an ethnic-minority community. When it comes to career opportunities, the gap between non-diverse and male employees and ethnic-minority tech employees and women tech employees is palpable; for instance, just 22% of Black tech employees feel they have an equal opportunity to grow compared to their non-diverse colleagues.

The perception gap between leadership and women and ethnic minorities in tech functions on inclusion processes and measures is narrower for organizations with an advanced inclusive culture^[1]. When asked whether women and ethnic minorities have equal access to employee resources, groups, and HR as compared to other employees from non-diverse backgrounds, the perception gap between inclusive

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organizations and the rest is significant (31% compared with 55%).

Consumers are aware of and are experiencing tech-based discrimination

Consumers are experiencing discriminatory technologies because of deficient diversity and inclusion practices in the tech teams of global businesses. In the financial services sector, for instance, 50% of ethnic minorities on average believe they were offered lower credit for certain banking products online, compared to 28% of customers who were not from ethnic minority communities. Meanwhile in healthcare, 43% of women and consumers from ethnic minority communities believe they were not shown healthcare facilities in high-end locations or those offering very specialized services.

As a result, consumers are concerned about discriminatory technology and are increasingly conscious of how their data is used and how it might impact them negatively. For example, two thirds (66%) of ethnic minority consumers say they worry that their personal data could be used to negatively impact their employment opportunities.

The report highlights that organizations with diverse and inclusive tech teams are 4 times more likely to create inclusive products.

Shobha Meera, Chief Corporate Social Responsibility Officer and Group Executive Committee Member at Capgemini, comments: *“In a world of increasing demand for tech-fueled products and services that are free of discrimination and are inclusive by design, the importance of inclusive tech workforces, cultures and practices, is more important than ever. And yet, we see a wide gap not only in the state of inclusive representation in the tech workforce of organizations, but also in the perceptions of leaders Vs women and ethnic minorities on the state of inclusion in tech. This report draws attention to the urgent need for organizations and leaders to embrace this reality and focus on improving diversity and inclusion in tech teams in a challenging talent environment.”*

Organizations need to build an effective inclusion strategy, beyond upping education and awareness at the highest levels, concludes the report. Organizations need to deploy various processes, policies and value systems that champion inclusion. This includes diversity and anti-harassment policies, and a clear inclusion mandate for technology teams. Leaders of technology teams need to ensure that women and ethnic-minority employees are given equal opportunities for career growth, progression, and input into product development, while also building the tech and data foundations for measuring, monitoring and improving inclusion outcomes. Fairness in AI systems must also be deployed while checking and correcting for algorithmic biases. Lastly, organizations must keep diverse users at the heart of their product design, development and deployment processes.

Methodology

The Capgemini Research Institute carried out extensive research with qualitative and quantitative components. Capgemini conducted executive and consumer surveys. The focus was on the experience of women and persons of ethnic-minority communities across both surveys. Capgemini also spoke to women and persons of color and ethnic-minority communities in focus-group discussions and in-depth interviews, along with other industry experts. Capgemini surveyed 500 organizations with one tech employee and one leadership respondent from each organization, a total of 1,000 executive respondents. To capture the end-user perspective, Capgemini also surveyed 5,000 consumers. Capgemini conducted 32 in-depth interviews with industry experts, academics, think tanks, start-ups, and anonymized employees from various organizations. The experts and employees were from inclusion and diversity teams; tech and AI teams; UX and UI design teams; and AI ethics and universal design experts.

Note to Editors

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Capgemini defines diversity as the presence of differences in a given environment/setting. In the context of a tech team or the workplace, it would generally refer to the presence of persons from diverse backgrounds, including (but not limited to) gender identity, ethnicity (race, religion, nationality, etc.), socioeconomic status, sexual orientation, physical or mental ability, and learning style.

Capgemini defines Inclusive culture as equal opportunity to grow in the organization; training and awareness for inclusive leadership, robust grievance-redressal mechanism for gender/race/ethnicity-based discrimination; comfort in sharing personal experiences with leadership and peers; and a sense of inclusion, belonging, and respect from their leadership and teams. Whereas inclusive design practices is defined by awareness and importance of inclusive design within the organization and throughout product development, view on whether digital products and design process are inclusive, level of end-user/consumer involvement in digital design and development process, level of checks and balances to minimize ethnicity and gender-based exclusions.

OPTITEX STRENGTHENS LEADERSHIP WITH APPOINTMENT OF NEW VP SALES AND VP FINANCE & OPERATIONS

22 July 2021

Optitex®, a global provider of integrated end-to-end 2D & 3D CAD/CAM software solutions for the fashion and apparel industry, is pleased to announce the recent leadership appointments of Richard Jessup, VP Sales, and Tom Aziel, VP Finance & Operations, who have joined the Optitex management team.

In keeping with Optitex's consistent growth strategy, the new appointments will serve to strengthen and further expand Optitex's global customer base, and its penetration into new global markets. This is best exemplified by the recent onboarding of Richard Jessup. Richard brings over two decades of rich fashion, automotive, and upholstery CAD software experience and expertise, combined with both enterprise level software and technology-based capital goods. A sales savvy industry professional, prior to joining Optitex, he held the position of Sales Director, EMEA at Gerber Technology, and earlier, at Lectra, as Sales Director, UK & Ireland, where he built, developed, and managed the regional sales team.

Tom Aziel, Optitex's recently appointed VP Finance & Operations, brings over a decade of experience in the financial sector, and is a Certified Public Accountant. Prior to joining Optitex, Tom served as the Director of Finance, and earlier, as the Controller at Vayyar Imaging, a leading semiconductor company. Earlier in his career, he held the position of Senior Associate in the Hi-Tech Assurance division at Ernst & Young.

Optitex CEO, Amir Lehr, commented, "I am confident that the nomination of both Richard and Tom, will significantly strengthen our leadership, and bring immeasurable added value to the Optitex management team, to our global operations, and to our customers."

Rockwell Automation Announces the Next Platinum Partner to its OEM Partner Program, Stolle Machinery

23 July 2021

Rockwell Automation, Inc., the world's largest company dedicated to industrial automation and digital transformation, announced the next company to be designated as a Platinum OEM Partner in the newly evolved global Original Equipment Manufacturer (OEM) Partner Program : Stolle Machinery. Stolle Machinery is the world's leading manufacturer of machinery for the production of beverage cans and

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easy-open ends. Known for their productivity and reliability, Stolle machines can be found in can plants around the world.

In late 2020, Rockwell Automation evolved its OEM Partner Program globally, establishing levels of participation based on need and output. As a Platinum OEM Partner, Stolle Machinery takes advantage of a true partnership approach with Rockwell Automation with executive-level engagements and alignment with strategic growth opportunities along with various services for digital transformation.

“Rockwell Automation is pleased to welcome Stolle Machinery as a Platinum OEM Partner to our growing OEM Partner Program,” said Johannes zu Eitz, Vice President of Global Market Access. “Not only does this Platinum designation help Rockwell Automation partner with Stolle on initiatives, it also adds diversity to our stable of partners, delivering unrivalled co-marketing opportunities, coordinated market planning with our sales force, and improved customer engagement with co-managed objectives.”

As the enhanced offering now provides increased market access opportunities, simplification, and standardized product alignment for manufacturers, enabling participants to fully leverage Rockwell Automation technology, the company expects more platinum level partners, as well as a number of gold, silver and bronze, to join the program, making it a world-class opportunity for original equipment manufacturers.

“Stolle is excited to partner with Rockwell Automation, specifically because of its deep knowledge in the food and beverage industry,” said Michael Larson, Chief Operations Officer for Stolle. “With a long history of innovation, we’ll partner with Rockwell Automation to develop new machinery and technology to make production faster and more efficient for our customers.”

Ann Fandozzi Joins Trimble's Board of Directors

26 July 2021

Trimble announced the appointment of Ann Fandozzi to its Board of Directors, effective August 16.

Fandozzi is chief executive officer (CEO) of Ritchie Bros. Auctioneers Incorporated, a leader in the on-line sale of industrial equipment. Before joining Ritchie, Fandozzi held CEO positions at vRide, an enterprise ride sharing business, and ABRA Auto Body & Glass. She has held senior operating leadership positions in the automotive and consumer industries. Fandozzi serves on the boards of directors of both Ritchie and Ghost Robotics and is a past member of Pinnacle Foods' board of directors.

"Ann brings a wealth of knowledge and experience to the Trimble board," said Rob Painter, Trimble CEO. "Her career has spanned both industrial end markets and the technologies, which transform the way those industries operate. She has been a dynamic leader in finding ways to accelerate growth in industries through transformational change. Ann is a talented engineer with an analytical mind and a strong intuition into the drivers of customer value."

"I'm excited to join the Trimble board," said Fandozzi. "Trimble's vision of transforming the way the world works—through solutions that connect the physical and digital worlds—is extremely compelling. I look forward to working with the board and management teams in making this vision a reality."

Fandozzi holds an MBA from the University of Pennsylvania's Wharton School, an MSE degree in Systems Engineering from the University of Pennsylvania and a BS in Computer Engineering from Stevens Institute of Technology.

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CNC Software Europe Reaches Milestone, Celebrates Anniversary

26 July 2021

Mastercam, headquartered in Tolland, Connecticut, is celebrating the tenth anniversary of the opening of its Swiss office. CNC Software Europe, SA was opened in April 2011 as a development office primarily to support the market for small precision turned parts. Today, the office is now 10 years old and is a part of several teams within CNC Software, Inc., contributing across the entire suite of Mastercam products.

According to Gary Hargreaves, CNC Software Chief Legal Officer, “We opened the development center in Switzerland because of our commitment to the Swiss market. Hiring the right talent in Switzerland gave us the team to successfully push forward in this growing market. The Mastercam Swiss Machining Solution is a great complement to the existing suite of Mastercam products.”

Located in Porrentruy, Switzerland, CNC Software Europe allowed the company to access the expertise available in the Jura Region of Switzerland, known as the birthplace of Swiss machining and is known for watchmaking, medical, and has many companies manufacturing products with small, precise moving parts.

According to Matthieu Saner, Manager, Software Engineering, “In addition to Swiss machining expertise, the Swiss office contributes today to many features being developed in Mastercam, as well as in post processor development.” Saner continues, “Some research projects in the field of manufacturing automation and Industry 4.0 are being completed in partnership with Swiss universities driven by the Swiss office. Our office also participates in local internship programs to provide opportunities for students to become familiar with the development of leading software in the world.”

Swiss turning machines can be highly complex with many operations happening simultaneously. The ability to accurately drive these machines requires software developed specifically for this type of machine. Mastercam’s Swiss Solution combines Mastercam Mill and Lathe with an optimized post processor to give users a reliable set of tools to program parts for their Swiss machines.

The market for Swiss type lathes has been increasing steadily. In addition to the shop that specializes in Swiss machines creating small, precision parts, the use of products like Mastercam Swiss Machining Solution has allowed the job shop to expand into this market. Many existing Mastercam customers are now buying Swiss CNC machines to produce smaller lots of parts and provide faster turnaround to their customers.

EMA Design Automation to Expand Reach into Central and South America

27 July 2021

EMA Design Automation®, a full-service provider and innovator of Electronic Design Automation (EDA) solutions, will be expanding its operations to Central and South America with the addition of Anacom to its EMA Solutions Partner Program. This announcement marks the third global expansion this year and further solidifies EMA's commitment to expand its reach to provide leading-edge technology and first-class support to the worldwide EDA market.

“We are happy to be continuing our global expansion with the addition of the Anacom team,” said Manny Marcano, President and CEO of EMA Design Automation. “We are excited for the positive impact this collaboration will have on the Central and South American engineering communities.”

This collaboration combines EMA’s commitment to quality and innovation with Anacom’s exceptional service to Latin America since 1988. Central and South American customers will benefit from the additional product offers and enhanced customer support from EMA and allow Anacom to bring the

latest products, services, and software to the local engineering communities.

“We are excited to be joining EMA, who shares our commitment to helping customers thrive,” said Carlos Lion, President of Anacom. “They are the perfect partner to grow our business and enhance our product offerings, enabling us to better serve our customers for generations to come.”

Sintecs Joins Altium’s Nexar Ecosystem

27 July 2021

For customers designing electronics, accessing the right software and tools to get the job done is paramount. Nexar, launched by Altium in April 2021, is a partner platform designed to connect printed circuit board (PCB) designers and their companies with the software, suppliers, and manufacturers who help them to turn ideas into smart and connected products.

For Sintecs, an electronics design services company located in The Netherlands, Nexar affords a unique opportunity to introduce two new simulation solutions to a large audience of electronics designers:

- **HYPERLYNX™ Connector:** For Altium Designer users whose companies already have access to the HYPERLYNX simulation suite, the HYPERLYNX Connector allows them to prepare simulation models for signal and power integrity performance verifications without leaving the Altium unified design environment. Sintecs is making the HYPERLYNX Connector available worldwide as an application inside Altium Designer, giving Altium Designer users an option to seamlessly access advanced simulation capabilities.
- **HYPERLYNX™ SI ALT:** For Altium Designer users who do not have access to the HYPERLYNX simulation suite, HYPERLYNX SI ALT offers a powerful subset of signal integrity simulation capabilities at a very attractive price. Up until now, the HYPERLYNX SI ALT solution has been available only to the European market; Sintecs will be releasing the tool to the global market shortly on the Nexar platform. The HYPERLYNX Connector also provides a seamless user experience that connects the Altium unified design environment with HYPERLYNX SI ALT.

As Hans Klos, Founder and CEO of Sintecs explains, “Nexar represents the future of electronics design, so it’s something that we want to be a part of. The Nexar platform streamlines the design process, improving collaboration and teamwork by shifting it to the cloud.”

“With Nexar, we can bring software simulation tools into the Altium environment, so our users don’t have to switch tools, import or export data. Having everything in one place eliminates all of the extra work caused by the lack of integration between design and testing tools,” Klos continues.

“Nexar software partners are growing their businesses while helping our customers to accelerate their electronics design, development, and manufacturing process,” adds Ted Pawela, Chief Ecosystem Officer at Altium. “Together, we’re evolving from isolated tool chains and disconnected processes into an integrated design to manufacturing workflow that is connected by a comprehensive data model for printed circuit boards,” adds Ted Pawela, Chief Ecosystem Officer at Altium.

T-Systems expands collaboration with Google Cloud

27 July 2021

T-Systems announced it is going to extend its collaboration with Google Cloud to jointly innovate on end-to-end solutions for customers in key industries, including public sector, healthcare, the automotive industry, and public transport. By joining forces, both partners will help companies and government

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institutions in their digitization efforts by combining Google’s leading data solutions and portfolio of industry solutions with T-Systems’ footprint, deep expertise, and understanding of customer needs in strategic focus areas.

T-Systems is now also certified by Google Cloud as a Managed Service Provider: As a result, customers will benefit from a wide range of scalable and ready-to-use solutions that accelerate their journey to the cloud and their overall digital transformation.

“The partnership with Google Cloud is an excellent fit with our strategy. Integrating the strength of Google Cloud’s leading capabilities, especially Artificial Intelligence and Machine Learning, with our industry-specific solutions and know-how will bring significant value to our clients,” explained Adel Al-Saleh, member of the Deutsche Telekom Board of Management and CEO of T-Systems. “While we’re currently focusing on the public sector, health, automotive, and public transport sectors, over time we will expand to other industries.”

We’re excited that we will combine T-Systems’ industry expertise and vast consulting experience together with our leading capabilities in AI/ML, data analytics, and more, to solve joint customers’ most critical problems.

Thomas Kurian, CEO of Google Cloud

Support for digital transformation with the help of the cloud

“Customers are seeking a partner to not just ‘lift-and-shift’ applications to the cloud, but also to help them digitally transform – and that’s what this partnership with T-Systems will bring to the industry”, said Thomas Kurian, CEO of Google Cloud.

Since announcing their partnership in 2020, Google Cloud and T-Systems have been working together to deliver solutions and managed services to help enterprise customers and public institutions digitally transform with the cloud. The certified managed service provider status will help T-Systems successfully deliver Google Cloud solutions. Moving forward, the joint focus will be on delivering customer value at scale by solving customer’s biggest challenges in their respective industries to drive business transformation through data-powered innovation.

Cadence Announces Anirudh Devgan to Become CEO in December 2021; Lip-Bu Tan to Transition to Role of Executive Chairman at That Time

26 July 2021

Cadence Design Systems, Inc. announced that its Chief Executive Officer Lip-Bu Tan will transition to the role of executive chairman on December 15, 2021, with President Anirudh Devgan assuming the role of president and CEO at that time. Devgan is joining the Cadence Board of Directors effective August 2, 2021. Chairman of the Board John Shoven has been appointed lead independent director, effective December 15, 2021. Tan and Devgan will continue their close partnership, which has delivered strong growth and consistent business results over the past four years.

Tan, 61, became CEO in January 2009 and reinvented the company, driving a fundamental cultural transformation that was rooted in leapfrog innovation and a relentless focus on delighting customers. Under his stewardship, Cadence successfully launched highly innovative products, made strategic acquisitions and forged deep and trusted partnerships with market-shaping customers and ecosystem players. On his watch, revenue grew from less than \$1 billion to almost \$3 billion, operating margins expanded to more than 35 percent, and the stock price appreciated by more than 3,200 percent.

“I am extremely proud of the Cadence team’s accomplishments and am humbled and honored by the

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confidence and trust that our customers have placed in us,” said Tan. “With its exciting growth strategy, broad leadership technology portfolio, marquee customer base and strong market position, Cadence is in the strongest position in its 33-year history. The Board and I feel that this is an opportune time to pass the baton to the next generation, and Anirudh is the right person to lead the company through its next phase of growth. Anirudh is a renowned technology leader with a distinguished track record of strategic vision, innovation, execution, customer success and business results. I’m confident that he will take Cadence to new heights. As executive chairman, I will focus on identifying new market expansion opportunities, key strategic initiatives, deepening relationships with our valued customers and on maximizing shareholder value. Anirudh and I have jointly led the company over the past few years, and we will continue to partner closely in our new roles to maximize the tremendous opportunities that lie ahead.”

“Lip-Bu drove a comprehensive company transformation that has led to delivering exceptional value for shareholders,” said John Shoven, chairman of Cadence’s Board of Directors. “He has created an enduring culture of innovation, execution and passion for customer success and built a firm foundation for sustained, long-term growth. On behalf of the Board, I would like to express our heartfelt gratitude to Lip-Bu and look forward to a seamless CEO transition as we continue executing on our rigorous succession plan. The Board is confident that Anirudh, who has driven the development and execution of the company’s exciting strategic direction, is uniquely qualified to be the next leader of the company. Lip-Bu, Anirudh and the executive management team have the Board’s full support as we work together to take Cadence to the next level.”

“I’m humbled and privileged to be appointed as the next CEO of Cadence. I thank Lip-Bu and the Board for their support and enthusiastically look forward to building upon our very strong momentum and taking the company through its next phase of growth,” said Anirudh Devgan. “Our compelling Intelligent System Design strategy, along with our broad and expanding innovative solutions portfolio, uniquely position us to capitalize on the tremendous opportunities that lay ahead as we deliver differentiated solutions to our growing customer base. Along with the more than 9,000 talented Cadence employees, Lip-Bu and I remain committed to accelerating our innovation, deepening our customer and ecosystem partnerships and continuing to delight our shareholders.”

Devgan, 51, has served as president of Cadence since 2017 and oversees all the research and development, sales and field engineering as well as corporate strategy, marketing and business development groups, including mergers and acquisitions. Devgan drove the technology and product roadmap and was the architect of several breakthrough innovations behind our current industry-leading solutions. He also spearheaded the development of our Intelligent System Design™ strategy, which leverages our computational software heritage to expand beyond the company’s core electronic design automation business into the broader systems space, thereby tripling our total addressable market to \$30 billion. Devgan joined Cadence in 2012 and held executive roles of increasing responsibility, including executive vice president and general manager of the Digital & Signoff and System & Verification Groups, making it his mission to attract and inspire the best talent in the industry. Prior to joining Cadence, Devgan held leadership positions at Magma Design Automation and IBM. Devgan received a Bachelor of Technology degree in electrical engineering from the Indian Institute of Technology, Delhi, and MS and PhD degrees in electrical and computer engineering from Carnegie Mellon University.

Event News

Build the Future: ALLPLAN Global Summit Announced

27 July 2021

From October 20 to 21, 2021, ALLPLAN, the global provider of BIM solutions for the AEC industry, will launch its first virtual conference called “Build the Future - ALLPLAN Global Summit”. Industry experts will share their insights about the latest trends and where the AEC journey is heading. Participants will learn about what to expect next in the digital transformation and gain an insight into best practices via customer projects from around the world such as from TEN Brinke, Holzner & Bertagnolli Engineering and Emch+Berger WSB. In addition, product and industry experts from ALLPLAN will present more than 30 sessions the key functionalities and latest innovations about the upcoming version, Allplan 2022. This latest release supports buildability at its best for significantly increased design quality and optimal project implementation.

The buildability aspects and implementation processes required during construction increasingly play important roles in design. This practical approach means that a structure not only looks viable in the 3D model, but the requirements for how we build are considered, therefore reducing wasted materials, time, and money. Among other things, this requires open, collaborative workflows between people throughout the project from design to build. The upcoming version Allplan 2022 supports these processes with seamless workflows across all stakeholders.

"Enabling our customers to optimize their projects for efficiency from inception to construction is the focus of our 'Design to Build' corporate strategy," explains Dr. Detlef Schneider, CEO of ALLPLAN. "At our Global Summit, we will be bringing architects, engineers, manufacturers, and general contractors together for networking opportunities and to inform them about the latest trends. This is how we are helping them to prepare for a successful future."

"At ALLPLAN, we support data-driven decision-making, as it helps the industry to make more informed decisions and deliver better building outcomes," explains Senior Vice President of Product Management Kevin Lea. "The ethos of buildability, together with the right software tools, can optimize construction methods, reduce costs, and save time," he continues.

36 Sessions in 2 days

The first day of the ALLPLAN Global Summit is all about the latest industry trends, the impact of digitalization, and why architects, engineers, manufacturers, and general contractors need ALLPLAN's solutions to deliver more successful projects today and for the future. CEO Dr. Detlef Schneider and SVP Product Management Kevin Lea will share insights about the company and product strategy of ALLPLAN and what lies ahead. Industry experts will also present trends about the state of digitalization in the construction industry. Richard Harpham will inspire with a keynote on buildability.

The second day will go behind the scenes of Allplan 2022. Product experts from more than 10 countries will present the latest tools, techniques, and features in the upcoming version – ranging from how to get started with Allplan 2022 for design to build, what's new in Allplan 2022 and Allplan Bridge 2022, and tips and tricks sessions on how to model bridges, terrain, roads, and steelwork. Also, there will be sessions dedicated to prefabrication and the benefits Planbar 2022 – the precast CAD solution – provides. Additionally, there will be a series of sessions about BIM and how to better collaborate in design and construction projects.

CGS to Present at SPESA Advancements in Manufacturing Technologies

26 July 2021

CGS, a global provider of business applications, enterprise learning and outsourcing services, today announced it will be participating a panel session titled “The Shifting Supply Chain” at the 2021 SPESA Advancements in Manufacturing Technologies Conference, taking place August 24, in Raleigh, North Carolina. Paul Magel, president, Business Applications division, CGS, will be a panelist at this session.

Title: The Shifting Supply Chain

Date/Time: Tuesday, August 24, 2021, at 9:15 a.m.

Location: Raleigh Convention Center in Raleigh, NC

Event summary: The Advancements Conference is meant for sewn products manufacturers – speakers will touch on fashion, apparel, automotive, interior design, furniture upholstery, technical textiles, and more – brands, retailers, suppliers, government officials.

The session will cover:

- How brands and retailers can ensure visibility into compliance by their suppliers regarding labor laws, sustainability and other ethical practices
- How to drive greater collaboration along the supply chain
- Current supply chain challenges
- Predictions on changes to the business in a post-Covid world

Zemax Envision Conference 2021 Agenda is Live!

28 July 2021

We are pleased announce that the Envision 2021 conference agenda is live!

The goal of this year's conference is to provide compelling and thought provoking content for optical and mechanical design professionals at any stage in their career. To achieve that goal, Envision 2021 will offer two tracks of speaker sessions, Simulation Driving Innovation and Industry Insights for Optical Product Design. Both tracks will feature curated sessions of Zemax customers and recognized leaders in their field sharing best practices. You will see innovative applications and new ways to optimize your Zemax software.

Agenda highlights include:

- Half-day conference sessions that allow the time to attend sessions AND uphold work obligations.
- Hear from customers like Microsoft.
- **Envision Americas:** sessions that highlight the growing role of metasurfaces and metalenses in optical system design, recent innovations in LiDAR for autonomous vehicles, and the increasingly important role of simulation in designing for manufacturability.
- **Envision Europe:** sessions that highlight the growing role of micro-optics, diffractive elements, and metasurfaces in optical system design, recent innovations in freeform optics for automotive and consumer electronic applications, and the increasing drive towards integrating details of the manufacturing and fabrication process into the system design.

Register Now!

This event series continues to bring our community together to share ideas and learn best practices from

each other! Think innovation, valuable insights, and hands-on learning all from the comfort and safety of your own home.

Financial News

Atos 2021: Accelerating transformation in a year of transition

27 July 2021

Atos, a global leader in digital transformation, announced its financial results for the first half of 2021.

Elie Girard, CEO, said: *“2021 is definitely a year of transition for Atos. Further to the strong Cloud acceleration post-Covid, we have decided to accelerate our transformation and focus significantly more of the Group’s resources around our key business areas: Digital, Cloud, Security & Decarbonization.*

The Spring program, aimed at implementing an Industry-led and customer-centric organization, matching the business needs of our customers, has been completed in the first semester. Hiring, training and certification programs in key areas are being strengthened. Classic Infrastructure activities are being optimized across the Group: in Germany we have reached an agreement with our social partners on a turnaround plan associated with the reduction of circa 1,300 of Infrastructure staff. A deep cultural change program called Leap has also been initiated throughout the Company.

This profound and fast transformation also requires a change of scope for the Group. We will continue to intensify our bolt-on acquisition program – 3 more announced today – and we are aiming to augment the Group’s capabilities with mid-size assets that will support our mid-term plan and growth agenda. Equally importantly, we have finalized our strategic portfolio review and decided with the Board of Directors to look for partners for several classic Infrastructure activities representing a total scope of c. 20% of Group revenue.

Last but not least, the full accounting review we decided to perform in North America has been completed. It did not reveal any material misstatement for the Group consolidated financial statements. Moreover, the statutory auditors have completed their usual limited review of the half-year condensed consolidated financial statements and an unqualified auditor’s report is in process to be issued.

With all those ongoing programs, change is on its way at Atos. I am deeply convinced that the relevance of our portfolio of offerings in the key segments, our customer relationships based on mutual trust, combined with the dedication and passion of our 105,000 employees will allow the Company to achieve its mid-term targets for the benefit of our shareholders and all our stakeholders.”

I - Full accounting review in North America satisfactorily completed

The Company, with the support of external advisors, has completed the full accounting review of the two U.S legal entities on which there was a qualified opinion in the report of the auditors for the 2020 consolidated financial statements. The work performed, which has been reviewed by the auditors as part of their half-year procedures, did not reveal any material misstatement for the Group consolidated financial statements.

Moreover, the Atos Board of Directors in its meeting held on July 27, 2021, has reviewed the Group half-year consolidated financial statements closed at June 30th, 2021. The Statutory Auditors have completed their usual limited review of the half-year condensed consolidated financial statements and **an unqualified Auditors’ report** is in process to be issued.

The remediation and prevention plan was completed and is being rolled-out. The main actions set-up in the plan covered the following topics: preventive controls, guidelines and documentation, HR review,

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skilling and organization, and awareness and training. The aim of the plan is remediation in North America and prevention in all regions.

II - H1 2021 results

H1 2021 performance by Industry

Revenue in the first semester of 2021 reached **€ 5,424 million**, **-1.0%** compared to the first semester of 2020 at constant currency, **-2.7%** organically. Revenue during the first half was impacted by Cloud acceleration on Legacy Infrastructure business as well as a stronger decrease in Unified Communications & Collaboration, with associated consequences on **operating margin**, at 5.6% compared to 7.8% in the first half of 2020.

In € million	Revenue		Evolution at constant currency	Operating margin		Operating margin %	
	H1 2021	H1 2020*		H1 2021	H1 2020*	H1 2021	H1 2020*
Manufacturing	980	1,006	-2.6%	47	13	4.7%	1.3%
Financial Services & Insurance	1,095	1,041	+5.2%	94	121	8.6%	11.7%
Public Sector & Defense	1,190	1,233	-3.5%	30	115	2.5%	9.4%
Telecom, Media & Technology	748	761	-1.7%	34	70	4.6%	9.3%
Resources & Services	778	814	-4.5%	32	42	4.1%	5.2%
Healthcare & Life Sciences	633	622	+1.9%	65	65	10.3%	10.4%

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Total	5,424	5,477	-1.0%	302	427	5.6%	7.8%
<i>* At constant currency</i>							

With 18% of the Group revenue, **Manufacturing** reported a revenue of **€ 980 million**, representing a decrease by **-2.6%**. In the second quarter, the revenue came back to stability. The Industry performance was penalized by the still challenging situation of the sectors that were heavily impacted by Covid-19, particularly in Central Europe, with significant volume reduction including Siemens in several geographies, and some non-repeatable deals realized in the first semester of 2020. Operating margin reached **€ 47 million**, representing **4.7%** of revenue. The margin increased by +340 basis points, underpinned by a comprehensive cost optimization program.

Financial Services & Insurance revenue reached **€ 1,095 million** during the first semester of 2021, representing 20% of the Group revenue. The Industry grew by **+5.2%**. The growth was mainly driven by the ramp-up of some large contracts signed last year. Operating margin reached **€ 94 million**, representing **8.6%** of revenue, a reduction of -310 basis points. The profitability was impacted by some revenue decrease in Banking and Financial Services, but also some new projects required the use of additional specific subcontractor experts to secure delivery.

Public Sector & Defense was the largest Industry of the Group with **€ 1,190 million**, representing 22% of the Group revenue. The Industry revenue decreased by **-3.5%**, mainly coming from volume reduction in North America. The High Performance Computing (HPC) deals slightly grew, led by a project with an Italian research consortium compensating non-repeatable large HPC deliveries in H1 2020 to a research institution in Germany as well as to Indian authorities. Operating margin reached **€ 30 million**, representing **2.5%** of revenue, -690 basis points at constant currency. The profitability was penalized by lower revenue combined with a less favorable business mix.

Telecom, Media & Technology represented 14% of the Group revenue with **€ 748 million** revenue, decreasing by **-1.7%**. During the second quarter, the Industry grew by +1.8% year-on-year. The contribution of a large contract with a technology company could not totally compensate Unified Communications & Collaboration business decrease. Operating margin reached **€ 34 million**, representing **4.6%** of revenue, a decrease of -470 basis points compared to last year at constant currency impacted by lower revenue in North America and Central Europe as well as a less favorable business mix.

Revenue generated by **Resources & Services** in the first semester of 2021 reached **€ 778 million**, representing 14% of the Group revenue. The Industry revenue decreased by **-4.5%**, with -2.5% in the second quarter. The Industry performance was penalized by volume reduction and the still challenging situation of Retail, Transportation, & Hospitality sectors. Operating margin reached **€ 32 million**, representing **4.1%** of revenue, -110 basis points at constant currency compared to the first semester of 2020. The reduction was mainly due to the revenue decline while cost saving programs allowed to mitigate partly this effect.

Representing 12% of the Group revenue, **Healthcare & Life Sciences** revenue was **€ 633 million**, increasing by **+1.9%** at constant currency compared to the first semester of 2020 and with a second quarter roughly stable year on year. The Industry grew in most geographies except North America,

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where the positive contribution of the ramp-up of some new contracts did not offset volume reduction with some customers. Operating margin was € 65 million, representing 10.3% of revenue and stable compared to last year. The Industry benefitted from a positive volume impact which was even augmented by strong profitability on new projects. This improvement in the project margin allowed the Industry to invest in additional commercial resources.

H1 2021 performance by Regional Business Unit

	Revenue			Operating margin		Operating margin %		
	<i>In € million</i>	H1 2021	H1 2020*	<i>Evolution at constant currency</i>	H1 2021	H1 2020*	H1 2021	H1 2020*
North America	1,170	1,240	-5.6%	138	188	11.8%	15.2%	
Northern Europe	1,402	1,359	+3.1%	91	100	6.5%	7.4%	
Central Europe	1,240	1,368	-9.4%	21	42	1.7%	3.1%	
Southern Europe	1,231	1,147	+7.3%	46	94	3.7%	8.2%	
Growing Markets	382	363	+5.3%	45	43	11.8%	11.9%	
Global structures	-	-	-	-39	-41	-0.7%	-0.7%	
Total	5,424	5,477	-1.0%	302	427	5.6%	7.8%	
* At constant								

currency

A majority of the Regions grew in the first semester of this year benefiting from the economic recovery, except North America and Central Europe. In North America, the positive contribution of the new acquisitions and the recent ramp-up of some large contracts in Digital transformation, Cloud and Cybersecurity spaces could not offset volume reduction in Legacy Infrastructure in Public Sector & Defense and project delays from some customers. Central Europe was affected by Cloud migration acceleration impacting Legacy Infrastructure and by a revenue decrease in the classic Unified Communications & Collaboration business; in addition, Manufacturing did not yet totally recover from the Covid impacts and in Public Sector & Defense some large HPC deals realized in 2020 could not be repeated this year.

Operating margin reached **€ 302 million**, representing **5.6%** of Group revenue, decreasing by -220 basis points compared to the first semester of 2020 impacted by the revenue decline in activities with a low short-term flexibility.

This affected the Regional Business Units having the most Legacy Infrastructure and to a lesser extent Unified Communications and Collaboration.

Commercial activity

During the first semester of 2021, the **Group order entry** reached **€ 5,569 million**, representing a **book to bill ratio** of **103%**, with the second quarter at 109%.

Book to Bill ratio was particularly high in Public Sector & Defense at 139% and as Geographies are concerned in Northern Europe at 119% and Growing Markets at 130%.

The main new contracts signed over Q2 included notably a large outsourcing contract in Benelux covering service integration, security, and Cloud services with the Flemish Government (Public Sector & Defense), a large contract in Telecom, Media & technology with EY to provide Next Generation Employee Experience Solution for 300,000+ employees, a large contract in Manufacturing in Central Europe with a large European manufacturer to modernize the supply chain management, an important Cloud and Edge contract in Resources & Services with a major international logistics company, and a digital transformation contract with a major hospital chain in the US to enhance the end-user experience in Healthcare & Life Sciences.

Contract renewals that took place in Q2 included large signatures with notably the Department for Work and Pensions (Health & Life Sciences) in Northern Europe, with a large European manufacturer (Manufacturing) in Central Europe, and with a leading financial services company in Central Europe (Financial Services & Insurance).

In line with the commercial activity, the **full backlog** at the end of June 2021 amounted to **€ 23.6 billion**, stable compared to end of December 2020, representing **2.1 years of revenue**. The **full qualified pipeline** was **€ 7.4 billion**, representing **7.9 months of revenue**, a decrease compared to the beginning of the year due to the evolution of the business. Indeed, there are less large, long cycle outsourcing Infrastructure deals and more short cycle Cloud and Cloud application deals on which Atos has already shown progress.

Operating income and net income

Operating income for the first half of 2021 year was **€-118 million**, resulting from the following items: **Staff reorganization** reached **€-79 million** stable compared to last year. Reorganization costs related to

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the adaptation of the workforce mainly in European countries. A specific plan in Germany was agreed with social partners and starts in July this year (see below).

Rationalization and associated costs increased from €-22 million last year to **€-42 million** this year and primarily resulted from the closure of office premises and data center consolidation, mainly in North America and France.

Integration and acquisition costs reached **€-22 million** (€-20 million last year) and mainly related to the integration costs of 2020 acquisitions as well as the cost of the associated retention schemes.

In the first half of 2021, amortization of intangible assets recognized through **Purchase Price Allocation (PPA)** reached **€-79 million** and was stable compared to last year.

The **equity-based compensation** expense amounted to **€-33 million** in the first half of 2021 compared to €-35 million in the first half of 2020.

In the first half of 2021, **other items** amounted to a net expense of **€-164 million** compared to a net gain of € 147 million in the first half of 2020 (a net expense of €-27 million excluding the effect of the Worldline transaction of February 2020), and included the impact from the unprecedented acceleration of the decline of classic Infrastructure business in a context of a much stronger post-Covid demand for Cloud migration. Those exceptional items mainly included write-off of assets of c. €-60 million in North America and Northern Europe, loss provisions for c. €-40 million mainly in North America, unusual impacts of settlements of c. €-30 million mainly in Central Europe and Growing Markets, as well as other long-term employee benefits in Central and Southern Europe.

Net financial expenses amounted to **€-3 million** for the period (compared to €-1 million for the first half of 2020) and was composed of a net cost of financial debt of €-13 million and net gain of non-operational financial items of € 10 million.

Tax charge reached **€-6 million** for the first half of the year with a loss before tax of €-121 million corresponding to Effective Tax Rate (ETR) of 18.6% compared to 18.5% for the first half of 2020 (excluding the tax effects of the Worldline transaction that occurred in 2020) and considering the impacts of the revised guidance announced on July 12, 2021 on the recoverability of the deferred tax assets.

The Group reported a **net income** of **€-129 million** for the half year ended June 30, 2021, compared to € 329 million in H1 2020. Both **basic EPS Group share** and **diluted EPS Group share** were **€-1.18** compared to € 3.02 for both in H1 2020.

The normalized net income was **€ 162 million**, representing 3.0% of Group revenue, compared to € 319 million for normalized net income in H1 2020. Both **normalized basic EPS Group share** and **normalized diluted EPS Group share** were **€ 1.48** compared to € 2.93 for both in H1 2020.

Free cash flow

Group free cash flow during the first half of 2021 was **€-369 million**, compared to €-172 million in the first half of 2020. The variation results mainly from c. €-141 million less Operating Margin before Depreciation and Amortization (OMDA) and from working capital effects mainly € 200 million lower contribution from customers' cash in advance.

OMDA was **€ 633 million** representing 11.7% of revenue, compared to 13.8% of revenue in June 2020, reflecting the impact on the operating margin.

Capital expenditures totaled **€-154 million**, representing **2.8% of revenue**, 50 bps less than the same period last year, reflecting the actions from the Group to optimize capital expenditures as well as to

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move to less capital-intensive activities.

The negative contribution from **change in working capital** was **€-394 million** (compared to €-407 million in the first half of 2020). The DSO has increased by 8 days (from 46 days at the end of December 2020 to 54 days at the end of June 2021), while the DPO has decreased by 4 days (from 80 days at the end of December 2020 to 76 days at the end of June 2021). The level of trade receivables sold with no recourse to banks with transfer of risks as defined by IFRS 9 has decreased from € 878 million at the end of December 2020 to € 820 million at the end of June 2021.

Cash out related to **taxes paid** decreased by **€ 9 million**.

Cost of net debt decreased by **€ 8 million** due to the reimbursement in April 2020 of the € 600 million bond issued in July 2015.

Reorganization, rationalization and associated costs, and integration and acquisition costs amounted to **€-147 million** in the first half of 2021 compared to €-96 million in the same period last year, due to the pay-out of programs started in 2020.

Finally, **Other changes** amounted to **€-66 million** compared to €-7 million. They included in particular the cash effect of early retirement programs in France and in Germany, settlements with customers as well as foreign exchange impacts.

Net debt evolution

Net acquisitions/disposals in H1 2021 amounted to **€-144 million** mainly originated from the acquisitions closed in the first semester.

The impact of **share buy-backs** was **€-57 million** compared to €-45 million in the first half of 2020. These share buy-back programs are related to the delivery of shares under long-term incentive plans and aim at avoiding any dilution for the shareholders.

Dividends paid by Atos SE amounted to **€ 98 million** while no dividends were paid in 2020 as a consequence of the Covid-19 economic impact.

Foreign exchange rate fluctuation determined on debt or cash exposure by country represented a decrease in net debt of **€ 9 million** mainly coming from the exchange rates of the US Dollar, Indian Rupee and British Pound against the Euro.

As a result, the **Group net debt position** as of June 30, 2021 was **€ 1,129 million**, compared to € 467 million as of December 31, 2020. As a reminder, assuming the full conversion of the Optional Exchangeable Bonds, net debt would be **€ 629 million** at June 30, 2021.

Human resources

The **total headcount** of the Group was **104,808** at the end of June 2021 compared to 104,430 at the end of December 2020. The Group welcomed 1,037 new employees from the acquired companies and 9,391 hired employees, the majority of whom in offshore and nearshore countries. During the first half of the year, 8,665 employees left the Group representing 16.6% attrition rate.

III - Strategy: Group repositioning on Digital, Cloud, Security & Decarbonization and first achievements

German turnaround plan agreed with social partners

The Group signed this month an agreement with social partners in Germany with the objective to turnaround loss making and cash negative areas in Germany on Classic Infrastructure business.

The agreement relates to the restructuring of c. 1,300 staff starting this year until the end of 2023. The cost required is c. € 180 million.

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As part of the agreement signed is the freeze of collective salary increases until the end of 2023 for employees in the scope.

As a result, the objective of the plan is a significant improvement of the operating margin in Germany representing at Group level +100bps operating margin impact mid-term.

3 new bolt-on acquisitions in Digital and Cloud

In line with its mid-term plan and transformation, the Group announces today the signature of 3 bolt-on acquisitions in Digital and Cloud:

Nimbix: a US based leading High Performance Computing (HPC) Cloud platform provider. Nimbix offers HPC-as-a-service providing engineers and scientists access to infrastructure and software to build, compute, scale, and roll-out simulation and Artificial Intelligence applications;

IDEAL GRP: a Product Lifecycle Management (PLM) integrator and partner of Siemens Digital Industry Software, based in Finland. IDEAL GRP offers consulting, integration, and maintenance services in Manufacturing and Energy sectors. It will add highly skilled team of approximately 100 experts to Atos. This transaction follows the PLM specialist Processia acquisition in June 2021;

Visual BI: a US based company specialist of Business Intelligence and Analytics in Cloud environment and an Elite Snowflake partner. With this acquisition, Atos will welcome 180 new highly skilled colleagues.

Portfolio review finalized: Decision to look for partners for c. 20% of Group revenue scope

As announced in April, the Group has been conducting a portfolio review of its assets and the Board of Directors in its meeting on July 27, 2021 decided the following strategic moves to accelerate the reprofiling of the Group towards Digital, Cloud, Security & Decarbonization:

- first, partnering on **Datacenter hosting and associated activities** to enhance customer service while improving the utilization of assets; joining forces in a consolidating market will allow these activities to develop further technical expertise and adjacent offerings while conducting required investments in classic infrastructure assets;
- second, the transformation of Atos **Unified Communications & Collaboration** puts us in the position to find the right partner with strong software and / or telecommunications expertise; combining technical and go to market capabilities will bring scale and investment that will allow our clients to accelerate their move to Unified Communications-as-a-Service (UCaaS) and Contact Center-as-a-Service (CCaaS), while benefiting from new differentiated services alongside robust private cloud solutions;
- third, partnering with best-in-class digital and specialized players on **sub-critical activities** to allow Atos to focus its efforts on its core markets while enhancing the quality of service to customers of those activities.

In total, the Group decided to move forward fast on those tracks, representing a **total scope of c. 20% of Group revenue**.

IV - 2021 adjusted objectives and Mid-term targets confirmed

Adjusted Objectives (July 12, 2021)	Initial Objectives (February 18, 2021)	Mid-term targets
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Revenue growth at constant currency	Stable	+3.5% to +4.0%	+5% to +7%
% Operating margin to revenue	c. 6.0%	9.4% to 9.8%	11% to 12%
Free Cash Flow / Cash Conversion	Positive	€550 to €600 million	> 60%

Appendix

Revenue and operating margin at constant scope and exchange rates reconciliation

<i>In € million</i>	H1 2021	H1 2020	% change
Statutory revenue	5,424	5,627	-3.6%
Exchange rates effect		-150	
Revenue at constant exchange rates	5,424	5,477	-1.0%
Scope effect		100	
Exchange rates effect on acquired/disposed perimeters		-4	
Revenue at constant scope and exchange rates	5,424	5,574	-2.7%
Statutory operating margin	302	450	-32.9%
Scope effect		6	
Exchange rates effect		-23	
Operating margin at constant scope and exchange rates	302	433	-30.3%

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as % of revenue

5.6%

7.8%

Scope effects amounted to € 97 million for revenue and € 6 million for operating margin. They are mainly related to:

- the acquisitions closed in 2020 and H1 2021 for €+118 million for the revenue and €+10 million for operating margin; and
- the disposal of some specific Unified Communications & Collaboration activities and Wivertis GmbH in 2020, amounting for a total of €-21 million for revenue and €-4 million for operating margin.

Currency exchange rates effects negatively contributed to revenue for €-150 million and to Operating margin for €-22 million. They mostly came from the depreciation of the American dollar against the Euro and, to a lesser extent, the depreciation of both the Hong Kong dollar and the Brazilian real against the Euro over the period.

Q2 2021 revenue performance by Industry

<i>In € million</i>	Q2 2021	Q2 2020*	<i>Evolution at constant currency</i>
Manufacturing	493	484	+1.8%
Financial Services & Insurance	551	535	+3.1%
Public Sector & Defense	610	634	-3.8%
Telecom, Media & Technology	375	369	+1.8%
Resources & Services	382	393	-2.5%
Health & Life Sciences	320	319	+0.3%
Total	2,733	2,734	-0.0%
<i>* At constant currency</i>			

Q2 2021 revenue performance by Regional Business Unit

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<i>In € million</i>	Q2 2021	Q2 2020*	Evolution at constant currency
North America	606	618	-1.9%
Northern Europe	671	671	-0.0%
Central Europe	630	703	-10.3%
Southern Europe	624	551	+13.1%
Growing Markets	201	191	+5.6%
Total	2,733	2,734	-0.0%
<i>* At constant currency</i>			

Conference call

The Management of Atos invites you to an international conference call on the Group first half 2021 results, on **Wednesday, July 28, 2021 at 08:15 am** (CET – Paris).

Upon registration, you will be provided with Participant Dial In Numbers, a Direct Event Passcode and a unique Registrant ID. Call reminders will also be sent via email the day prior to the event.

During the 10 minutes prior to the beginning of the call, you will need to use the conference access information provided in the email received upon registration.

After the conference, a replay of the webcast will be available on atos.net, in the Investors section.

Forthcoming events

October 21, 2021 (Before Market Opening)	Third quarter 2021 revenue
February 28, 2022 (After Market Close)	Full Year 2021 results
April 27, 2022 (Before Market Opening)	First Quarter 2022 revenue
May 18, 2022	Annual General Meeting
July 27, 2022 (Before Market Opening)	First semester 2022 results

Bechtle- Ad-hoc Announcement: Earnings and margin forecasts raised

26 July 2021

Following a very positive development in earnings during the first six months of the year, Bechtle AG is

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raising its forecast for the full year of 2021. EBT is now expected to grow very significantly (previously: significantly) with a margin above (previously: at the same level as) the previous year. The Executive Board confirms its forecast of significant growth in revenues.

Preliminary figures for Bechtle AG suggest earnings before taxes (EBT) in the second quarter of 2021 amounting to over €80 m, which translates to an increase of nearly 40% year on year (Q2/2020: €58.1 m). This includes one-time effects through the reversal of provisions and impairments. Purely operating EBT were at approximately €71 m, an increase of over 20% compared to the previous year. Revenue in the months from April to June climbed to approximately €1,430 m, some 9% above the previous year (€1,310.5 m). The EBT margin grew in line to an expected 5.7% in Q2, or a very good 5% excluding one-time effects.

Bechtle AG will publish its Interim Report on H1 and Q2 containing the finalised numbers on 12 August 2021.

Cadence Reports Second Quarter 2021 Financial Results

26 July 2021

Cadence Design Systems, Inc. announced results for the second quarter of 2021.

Cadence reported second quarter 2021 revenue of \$728 million, compared to revenue of \$638 million for the same period in 2020. On a GAAP basis, Cadence achieved operating margin of 25 percent and recognized net income of \$156 million, or \$0.56 per share on a diluted basis, in the second quarter of 2021, compared to operating margin of 24 percent and net income of \$131 million, or \$0.47 per share on a diluted basis for the same period in 2020.

Using the non-GAAP measure defined below, operating margin for the second quarter of 2021 was 39 percent and net income was \$238 million, or \$0.86 per share on a diluted basis, compared to operating margin of 35 percent and net income of \$185 million, or \$0.66 per share on a diluted basis, for the same period in 2020.

“Cadence delivered outstanding financial results for the second quarter on broad based customer demand as the Cadence team continues to execute exceedingly well.” said Lip-Bu Tan, chief executive officer. “Generational drivers are fueling strong design activity and our ISD strategy coupled with a strong innovation engine that has led to introducing eight significant new products so far this year, positions us extremely well to delight our customers and accelerate growth.”

“Cadence exceeded all of its key financial metrics for the second quarter and as a result we are raising our outlook for the year,” said John Wall, senior vice president and chief financial officer.

CFO Commentary

Commentary on the second quarter 2021 financial results by John Wall, senior vice president and chief financial officer, is available at www.cadence.com/cadence/investor_relations.

Business Outlook

For the third quarter of 2021, the company expects total revenue in the range of \$730 million to \$750 million. Third quarter GAAP operating margin is expected to be approximately 23 percent and GAAP net income per diluted share is expected to be in the range of \$0.48 to \$0.50. Using the non-GAAP measure defined below, operating margin is expected to be approximately 34 percent and net income per diluted share is expected to be in the range of \$0.74 to \$0.76.

For 2021, the company expects total revenue in the range of \$2.925 billion to \$2.965 billion. On a GAAP basis, operating margin is expected to be in the range of 24.5 percent to 25.25 percent and GAAP

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net income per diluted share for 2021 is expected to be in the range of \$2.15 to \$2.21. Using the non-GAAP measure defined below, operating margin for 2021 is expected to be in the range of 36 percent to 36.75 percent and net income per diluted share for 2021 is expected to be in the range of \$3.14 to \$3.20. Our fiscal years are 52- or 53-week periods ending on the Saturday closest to December 31. Fiscal 2021 will be a 52-week fiscal year. Fiscal 2020 was a 53-week fiscal year, with an additional week in our fourth quarter of 2020.

A schedule showing a reconciliation of the business outlook from GAAP operating margin, GAAP net income and diluted net income per share to non-GAAP operating margin and non-GAAP net income and diluted net income per share is included in this release.

Audio Webcast Scheduled

Lip-Bu Tan, chief executive officer, Anirudh Devgan, president and John Wall, senior vice president and chief financial officer, will host the second quarter 2021 financial results audio webcast today, July 26, 2021, at 2 p.m. (Pacific) / 5 p.m. (Eastern). Attendees are asked to register at the website at least 10 minutes prior to the scheduled webcast. An archive of the webcast will be available starting July 26, 2021 at 5 p.m. (Pacific) and ending September 17, 2021 at 5 p.m. (Pacific). Webcast access is available at www.cadence.com/cadence/investor_relations.

For a detailed discussion of cautionary statements related to Cadence's business, please refer to Cadence's filings with the U.S. Securities and Exchange Commission, which include Cadence's most recent reports on Form 10-K and Form 10-Q, including Cadence's future filings.

Cadence expects that its corporate representatives will meet privately during the quarter with investors, the media, investment analysts and others. At these meetings, Cadence may reiterate the business outlook published in this press release. At the same time, Cadence will keep this press release, including the business outlook, publicly available on its website.

Prior to the start of the Quiet Period (described below), the public may continue to rely on the business outlook contained herein as still being Cadence's current expectations on matters covered unless Cadence publishes a notice stating otherwise.

Beginning September 17, 2021, Cadence will observe a Quiet Period during which the business outlook as provided in this press release and the most recent Annual Report on Form 10-K and Quarterly Report on Form 10-Q no longer constitute Cadence's current expectations. During the Quiet Period, the business outlook in these documents should be considered historical, speaking as of prior to the Quiet Period only and not subject to any update by Cadence. During the Quiet Period, Cadence's representatives will not comment on Cadence's business outlook, financial results or expectations. The Quiet Period will extend until Cadence's third quarter 2021 earnings release is published, which is currently scheduled for October 25, 2021.

Capgemini raises all its financial targets for 2021 building on its strong growth momentum

28 July 2021

The Board of Directors of Capgemini SE, chaired by Paul Hermelin, convened on July 27, 2021 in Paris to review and adopt the accounts of Capgemini Group for the first half of 2021.

Aiman Ezzat, Chief Executive Officer of the Capgemini Group, said: *“Capgemini has delivered an excellent 2021 first-half performance. Organic growth accelerated significantly in Q2 reaching 12.9%, and H1 operating margin has materially improved.*

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I would like once again to pay tribute to our 290,000 team members who continuously create value for our clients, in a context that remains challenging in several regions.

These results are underpinned by two factors: a structural acceleration in client demand for technology and the relevance of our strategic direction, as outlined during our 2021 Capital Markets Day. They also exemplify our growth model based on our intimacy with strategic clients, the success of our innovative offerings, deep relationships with our technology partners and significant investments in human capital. We are developing new solutions to help our clients reduce their carbon footprint, and have just launched our first offer for sustainable IT.

In light of this excellent performance and the very solid prospects for the second half of the year, we have decided to significantly raise our growth, operating margin and free cash flow targets for 2021.”

1ST HALF KEY FIGURES

Capgemini generated revenues of €8,711 million in H1 2021. After a Q1 2021 already marked by higher than expected growth, the Group accelerated strongly in the second quarter. Organic growth* (i.e. adjusted for Group scope and exchange rate impacts) was +12.9%, compared with +1.7% in the previous quarter, with Q2 activity significantly exceeding pre-crisis levels.

For the whole of H1, Group growth reached +14.9% on a reported basis, +17.9% at constant exchange rates and +7.1% organically. Digital and Cloud services primarily underpinned this performance, accounting for around two-thirds of activity[3] and recording strong double-digit year-on-year growth at constant exchange rates in H1.

Bookings totaled €9,128 million in the first six months of 2021, a +20% increase at constant exchange rates year-on-year. The book-to-bill ratio reached 105% in H1 and 111% in Q2, demonstrating the Group's good business momentum.

The operating margin* is €1,042 million, or 12.0% of revenues, an increase of 28% or 120 basis points year-on-year.

Other operating income and expenses represent a net expense of €230 million, down €11 million year-on-year.

Capgemini's operating profit is therefore up +41% at €812 million, or 9.3% of revenues.

The net financial expense is €85 million, an increase of €21 million on H1 2020 with the acquisition of Altran.

The income tax expense is €282 million and includes exceptional tax expenses² of €56 million, compared with €26 million last year. Adjusted for these expenses, the effective tax rate is 31.0%, compared with 34.6% in H1 2020 and 33.0% in FY 2020.

Net profit (Group share) is up 42% year-on-year at €443 million for the first six months of 2021. Basic earnings per share rose by 42% year-on-year to €2.63, while normalized earnings per share* increased 28% to €3.58. Normalized earnings per share adjusted for exceptional tax expenses rose 32% to €3.91.

The Group generated organic free cash flow* of €429 million, compared with €106 million in the same period in 2020.

Return to shareholders totaled €329 million in H1 2021, corresponding to the dividend payment (€1.95 per share). Furthermore, the Group disbursed a net amount of €70 million on external growth transactions during the period.

OPERATION BY REGION

Changes in Group scope had a significant impact in Q1 2021 (+22.5 points at Group level), mainly due

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to the acquisition of Altran, consolidated from April 1, 2020.

Given the very limited impact of scope changes in Q2 (-0.5 points at Group level, due to the divestiture of Odigo on December 30, 2020), constant currency growth rates are far more representative of underlying organic trends (i.e. at constant Group scope and exchange rates).

- Q2 2021:

Organic growth across all Group regions increased significantly on Q1 2021. In particular, France recorded the fastest acceleration, reporting Q2 organic growth well above 10%. This acceleration is also visible across all Group sectors, but especially in those heavily hit by the health crisis: Consumer Goods, Services (including transportation, hospitality and catering) and Manufacturing. The latter sector made a strong recovery, returning in Q2 to an activity level comparable to the pre-crisis period, as did the Consumer Goods sector in Q1.

At constant exchange rates, the Rest of Europe (31% of Group revenues), United Kingdom and Ireland (12% of Group revenues) and Asia-Pacific and Latin America (7% of Group revenues) regions grew significantly above 10%, while France (21% of Group revenues) and North America (29% of Group revenues) reported high single-digit growth.

These regional trends were fueled by relatively global sector trends. At constant exchange rates, growth is high double-digit in Consumer Goods (13% of Group revenues), Manufacturing (25% of Group revenues and also including Life Sciences), Services (5% of Group revenues) and the Public Sector (14% of Group revenues). Financial Services (22% of Group revenues) and the TMT sector (Telecom, Media and Technology, 13% of Group revenues) came next. Only the momentum of the Energy & Utilities sector (8% of Group revenues) fell significantly short of that of the rest of the Group.

- H1 2021:

Given the magnitude of the Q2 acceleration, the activity trends detailed above also apply to the entire half-year. All Group regions reported double-digit growth rates year-on-year at constant exchange rates. This performance takes into account the impact of Altran's consolidation, which is nonetheless limited to Q1 as explained above.

Revenues in North America therefore grew by +12.3% at constant exchange rates, driven mainly by the underlying organic momentum of the Consumer Goods and Manufacturing sectors. The operating margin rate improved further to 15.7%, from 14.4% in the first half of 2020.

Momentum was even stronger in the United Kingdom and Ireland region, with activity growth of +18.5% at constant exchange rates. Public Sector and Financial Services organic growth remained buoyant in the half-year, with Consumer Goods accelerating steadily. The operating margin reached a record level of 17.6%, compared with 14.3% a year earlier.

France revenues grew by +16.2% at constant exchange rates. The Public Sector and Consumer Goods contributed the most to organic growth during the period, while the Manufacturing sector closed the period on a strong momentum. The operating margin improved by 60 basis points year-on-year to 7.5%.

The Rest of Europe region grew +23.7% at constant exchange rates. The Manufacturing, Consumer Goods and TMT sectors reported the strongest organic trend. The operating margin increased significantly to 11.5% from 10.2% one year ago.

Finally, the Asia-Pacific and Latin America region reported revenue growth of +21.3% at constant exchange rates. Organically, the Financial Services, Consumer Goods, TMT and Manufacturing sectors all reported double-digit growth. The region reported a 2-point increase in its operating margin to

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12.5%, from 10.5% in H1 2020.

OPERATIONS BY BUSINESS

- Q2 2021:

All Group business lines also showed a further increase in organic growth in total revenues* compared with Q1. In particular, organic growth was a solid double-digit in Strategy & Transformation services (8% of Group revenues) and Applications & Technology services (61% of Group revenues and Capgemini's core business), but also in Engineering services, which saw a strong return to growth and Q2 activity levels comparable with the pre-crisis period. This excellent performance, combined with strong organic growth in Infrastructure and Cloud services, as well as in Business Services (before the impact of the Odigo divestment), brought organic growth in Operations & Engineering services (31% of Group revenues) to above 10%, compared with 7.7% at constant exchange rates.

- H1 2021:

For the whole of H1 and at constant exchange rates, Strategy & Transformation consulting services reported a +27.3% rise in total revenues. Applications & Technology total revenues increased +10.1%. Finally, Operations & Engineering total revenues grew +33.6% at constant exchange rates with the Q1 impact of the consolidation of Altran, which mainly delivers Engineering services.

HEADCOUNT

At June 30, 2021, the Group's total headcount stood at 289,500, up +9.2% year-on-year, with 163,200 employees in offshore centers (56% of the total Group headcount, up 3 points on June 30, 2020).

BALANCE SHEET

Capgemini's balance sheet structure was relatively unchanged in H1 2021.

At June 30, 2021, the Group had cash and cash equivalents and cash management assets of €2.9 billion. After accounting for borrowings of nearly €7.8 billion, Capgemini net debt* stands at €4.8 billion at June 30, 2021, compared with €6.0 billion at June 30, 2020 and €4.9 billion at December 31, 2020.

OUTLOOK

Given the confirmed stronger than expected momentum, the Group is raising all its targets for the fiscal year and is now aiming in 2021 for:

- constant currency growth of +12.0% to +13.0%, instead of +7.0% to +9.0% previously;
- an operating margin of 12.5% to 12.7%, instead of 12.2% to 12.4%;
- organic free cash flow above €1,500 million, compared with €1,300 million.

The inorganic contribution to growth is anticipated at c. 5.0 points (4.5 points previously).

CONFERENCE CALL

Aiman Ezzat, Chief Executive Officer and Carole Ferrand, Chief Financial Officer, will present this press release during a conference call in English to be held today at 7.00 a.m. Paris time (CET). You can follow this conference call live via webcast. A replay will also be available for a period of one year.

PROVISIONAL CALENDAR

October 28, 2021 – Q3 2021 revenues ; February 14, 2022 – FY 2021 results ; April 28, 2022 – Q1 2022 revenues ; May 19, 2022 – Shareholders' Meeting

CIMdata PLM Industry Summary

FARO Announces Second Quarter 2021 Financial Results

28 July 2021

FARO®, a global leader of 3D measurement, imaging, and realization solutions for the 3D Metrology, AEC (Architecture, Engineering & Construction), and Public Safety Analytics markets, announced its financial results for the second quarter ended June 30, 2021.

"Second quarter demand reflected a return to seasonal growth, with broad based improvement across our served markets," stated Michael Burger, President and Chief Executive Officer. "While demand recovers, we remain focused on creating opportunities to drive topline growth such as the expansion of our Digital Twin offering through the addition of HoloBuilder's photogrammetry capabilities and our recently announced next generation Quantum Max ScanArm family of products, as well as further streamlining our operational cost structure with the recently announced shift to outsourced manufacturing."

Mr. Burger continued, "Through the combination of strategic initiatives implemented over the last two years and the investments we continue to make in our hardware, software and solution offerings to directly address our customer's workflow needs, we believe we are well positioned to drive strong operating leverage and long-term differentiation as the market grows."

Second Quarter 2021 Financial Summary

Total sales were \$82.1 million for second quarter 2021 representing an 8% sequential quarterly increase when compared to \$76.3 million in the first quarter 2021, and a 36% increase when compared with total sales of \$60.6 million for second quarter 2020. The sequential sales increase represents typical market seasonality while the year over year growth was primarily a result of pandemic related softness in the prior year period. Similarly, new order bookings of \$88.2 million increased 9% sequentially compared to \$80.6 million in the first quarter 2021 and increased 44% when compared to \$61.4 million for the second quarter 2020.

Gross margin was 55.4% for the second quarter 2021, as compared to 47.7% for the same prior year period. Non-GAAP gross margin was 55.7% for the second quarter 2021 compared to 48.4% for the second quarter 2020. The annual increase in gross margin was primarily a result of higher volume compared to the prior year period.

Operating expenses were \$46.1 million for the second quarter 2021, compared to \$40.9 million for the same prior year period. Non-GAAP operating expenses were \$41.8 million for the second quarter 2021 compared to \$37.7 million for the second quarter 2020.

Net loss was \$1.2 million, or \$0.06 per share, for the second quarter 2021, as compared to a net loss of \$8.9 million, or \$0.50 per share, for the second quarter 2020. Non-GAAP net income was \$2.2 million, or \$0.12 per share, for the second quarter 2021 compared to Non-GAAP net loss of \$6.3 million, or \$0.36 per share, for the second quarter 2020.

Adjusted EBITDA was \$6.5 million, or 7.9% of Non-GAAP total sales, for the second quarter of 2021 compared to Adjusted EBITDA of negative \$5.0 million, or 8.2% of Non-GAAP total sales, for the second quarter of 2020.

The Company's cash and short-term investments decreased \$36.6 million to \$133.3 million as of the end of the second quarter of 2021, primarily due to the \$34 million acquisition of HoloBuilder which closed in the quarter. The Company remained debt-free.

* A reconciliation of the non-GAAP financial measures to the most directly comparable GAAP financial measures is provided in the financial schedules portion at the end of this press release. An additional

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explanation of these measures is included below under the heading "Non-GAAP Financial Measures".

Conference Call

The Company will host a conference call to discuss these results on Thursday, July 29, 2021 at 8:00 a.m. ET. Interested parties can access the conference call by dialing (877) 876-9176 (U.S.) or +1 (785) 424-1669 (International) and using the passcode FARO. A live webcast will be available in the Investor Relations section of FARO's website.

A replay webcast will be available in the Investor Relations section of the company's web site approximately two hours after the conclusion of the call and will remain available for approximately 30 calendar days.

Hexagon Interim Report 1 January - 30 June 2021

27 July 2021

Second quarter 2021

- Net sales increased by 20 per cent to 1,075.6 MEUR (896.6). Using fixed exchange rates and a comparable group structure (organic growth), net sales increased by 20 per cent
- Adjusted operating earnings (EBIT1) increased by 33 per cent to 301.1 MEUR (226.5)
- Earnings before taxes, excluding adjustments, amounted to 294.3 MEUR (220.1)
- Net earnings, excluding adjustments, amounted to 241.4 MEUR (180.5)
- Earnings per share, excluding adjustments, amounted to 0.09 EUR (0.07)
- Operating cash flow increased to 275.4 MEUR (239.2)

This is information that Hexagon AB is obliged to make public pursuant to the EU Market Abuse Regulation and the Securities Markets Act. The information was submitted for publication, through the agency of the contact person set out above, at 08:00 CET on 27 July 2021.

IFS Growth Trajectory Continues With Software Revenue Growth At 20% For H1, Driven By Impressive Rise In Cloud Adoption

22 July 2021

IFS, the global cloud enterprise applications company, announced its financial results for the first half of 2021. After a strong Q1, H1 is evidence that the company is successfully executing its growth strategy and pursuing its transformation into a leading vertical asset and service centric Cloud software vendor. With more companies recognizing the benefits of deploying in the Cloud and turning to IFS to digitally transform and deliver their moments of service, all software revenue line items grew double digit, driven by a steep acceleration in cloud revenue (+79% YoY) and recurring revenue (+27% YoY).

H1 also saw some key milestones for IFS, including:

- The acquisition of Axios Systems extending IFS's service management proposition into ITSM and ITOM to create the most compelling Enterprise Service Management proposition on the market. Combined with IFS's leadership in Field Service Management, this secures IFS's ambition to cement itself as the market leader in broader the Service Cloud space.
- The launch of IFS Cloud, IFS Cloud is built using the latest technology including the industry's most modern UX, digital-twins for enhanced performance, low code/no code development, containerization and a composable architecture which are all critical to creating business agility

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and realizing value.

- The global launch of IFS's new branding together with the Moment of Service sets out IFS's clear strategy to align its value proposition to servitization to enable organisations to deliver their Moment of Service.

IFS CEO, Darren Roos, commented: "IFS is a technology led company with the single goal to make the latest technology advancements available to our customers in a way that creates value fast, has a low total cost of ownership, and is easy to consume and use. H1 is evidence that our strategy to focus on this and to build agility into our product operations, so customers can respond to the market fast is working." Roos continued: "Customers can see the difference in what IFS is doing, and that ensuring their success is why we do what we do. They also see that very few other vendors offer flexibility in deployment, depth in product and powerful technology while shaping their business around customer experience." Roos concluded: "Delivering our Moment of Service to our customers is a very real mission for IFS, and the sharp rise in cloud adoption is testimony to that."

IFS Chief Financial Officer, Constance Minc, commented: "I believe our H1 performance is evidence of a strong and successful strategy. We are delivering double digit software revenue growth at 20% and our share of software revenue and recurring revenue continue to increase, improving future performance predictability." Minc added: "The upward trend in our performance is not only present in the last six months, but over the long term as demonstrated by the double-digit growth in LTM software revenue for the past 3.5 years."

Other financial highlights include:

- H1 software revenue was **SEK 2.6bn**, an increase of **20%** Year on Year
- H1 recurring revenue was **SEK 2bn**, an increase of **27%** Year on Year and representing more than 80% of software revenue
- H1 cloud revenue increased 79% Year on Year representing more than **39%** of software revenue
- Proportion of license revenues from net new customers is **54%** of total

* Note: all figures based in Swedish Krona and reported in constant currency.

Lectra: First half 2021: strong growth in revenues and earnings

29 July 2021

First half 2021: strong growth in revenues and earnings

- Revenues: 146.7 million euros (+29%)*
- EBITDA before non-recurring items: 23.2 million euros (+80%)*
- Net income: 8.9 million euros (+101%)*
- Free cash flow before non-recurring items: 14.3 million euros

* *At actual exchange rates*

In millions of euros

April 1 – June 30

January 1 – June 30

2021

2020

2021

2020

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Revenues	80	50.5	146.7	114
<i>Change at actual exchange rates (%)</i>	+58%		+29%	
EBITDA before non-recurring items ⁽¹⁾	11.9	4.9	23.2	12.9
<i>Change at actual exchange rates (%)</i>	+140%		+80%	
EBITDA margin before non-recurring items (in % of revenues)	14.8%	9.8%	15.8%	11.3%
Net income	2.9	1.1	8.9	4.5
<i>Change at actual exchange rates (%)</i>	+175%		+101%	
Free cash flow before non-recurring items ⁽¹⁾	4.5	(2.2)	14.3	1.5
Shareholders' equity ⁽²⁾			370	192.2
Net cash (+) / Net financial debt (-) ^{(1) (2)}			(21.9)	134.6

(1) The definition of the key performance indicators is shown in the June 30, 2021 Financial Report

(2) At June 30, 2021 and December 31, 2020

Lectra's Board of Directors, chaired by Daniel Harari, reviewed the consolidated financial statements for the first half of 2021, which take into account the acquisition of the company Gerber Technology, which has been consolidated since June 1, 2021. Financial statements for the first half have been subject to a limited review by the Statutory Auditors. To facilitate analysis of the Group's second quarter and first half financial statements, the impact of Gerber Technology (the "Gerber scope") on the income statement is analyzed separately from the results of Lectra excluding the acquisition (the "Lectra 2020 scope"). For the Lectra 2020 scope, detailed comparisons between 2021 and 2020 are based on 2020 exchange rates unless otherwise stated ("like-for-like").

1. SUMMARY FOR Q2 2021

Q2 2021 revenues (80 million euros) increased by 58% at actual exchange rates. EBITDA before non-recurring items (11.9 million euros) was multiplied by 2.4 at actual exchange rates and the EBITDA margin before non-recurring items was 14.8%.

For its first month of consolidation, Gerber Technology contributed 13.5 million euros to revenues and 1.2 million euros to EBITDA before non-recurring items.

Income from operations before non-recurring items (7.7 million euros) included a 0.8-million-euro charge for amortization of intangible assets arising from the acquisition of Gerber Technology. After a

CIMdata PLM Industry Summary

non-recurring charge of 3.8 million euros, recognized in Q2 2021, for fees and other costs relating to the acquisition of Gerber Technology, income from operations amounted to 4 million euros. Net income totaled 2.9 million euros (+175% at actual exchange rates).

1.1 Lectra 2020 scope

Business activity and results in Q2 2020 had been severely affected by the COVID-19 crisis. Despite the persistent consequences of this health crisis, particularly in Europe, Q2 2021 confirmed the improvement observed at the end of 2020 and then in Q1 2021.

Orders for perpetual software licenses, equipment and accompanying software, and non-recurring services (30.6 million euros) more than doubled (+112%) compared to Q2 2020. The annual value of new software subscription orders (2 million euros) was multiplied by close to 6.

Revenues (66.5 million euros) increased by 36%.

Income from operations before non-recurring items (7.7 million euros) was multiplied by 4.5 and the operating margin before non-recurring items (11.6%) increased by 9.3 percentage points.

1.2 Acquisition of the company Neteven

On June 24, 2021, the Company announced the signature of an agreement to acquire the entire capital and voting rights of the French company Neteven (see press release issued on that date).

2. FIRST HALF 2021

H1 2021 revenues (146.7 million euros) increased by 29% at actual exchange rates. EBITDA before non-recurring items (23.2 million euros) increased by 80% at actual exchange rates and the EBITDA margin before non-recurring items was 15.8%.

Consolidated income from operations before non-recurring items amounted to 16.2 million euros. After a non-recurring charge of 4.8 million euros, recognized in H1 2021, for fees and other costs relating to the acquisition of Gerber Technology, income from operations amounted to 11.4 million euros.

Net income (8.9 million euros) increased by 101% at actual exchange rates.

Free cash flow before non-recurring items came to 14.3 million euros (1.5 million euros in H1 2020). This sharp rise is attributable mainly to the improvement in earnings. After disbursement of 2.8 million euros in H1, in respect of fees and other related expenses in connection with the acquisition of Gerber Technology, free cash-flow amounted to 11.5 million euros.

2.1 Lectra 2020 scope

With an average exchange rate of \$1.21/€1 in H1, the US dollar was down 9% compared to H1 2020 and the yuan declined by 1% against the euro. Currency changes mechanically decreased revenues by 5.1 million euros (-4%) and income from operations before non-recurring items by 3.1 million euros (-16%) at actual exchange rates, compared to like-for-like figures.

Strong growth in orders and revenues, income from operations before non-recurring items multiplied by 2.7

Revenues (133.2 million euros) increased by 21% (+17% at actual exchange rates) compared to H1 2020, which had suffered the effects of the health crisis

Orders for perpetual software licenses, equipment and accompanying software, and non-recurring services (56.6 million euros) increased by 71%.

The annual value of new software subscription orders (2.7 million euros) was multiplied by close to 3 compared to H1 2020.

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Revenues from perpetual software licenses, equipment and accompanying software, and non-recurring services (49.2 million euros) increased by 35%, those from recurring contracts by 3% and those from consumables and parts, which were affected by the acute reduction in business activity of the Group's customers due to the health crisis, by 35%.

Income from operations before non-recurring items (16.2 million euros) was multiplied by 2.7 compared to H1 2020 (multiplied by 2.3 at actual exchange rates), and the operating margin before non-recurring items (12.1%) increased by 7.8 percentage points like-for-like (+5.9 percentage points at actual exchange rates).

2.2 Balance sheet at June 30, 2021

The balance sheet at June 30, 2021 includes the effects of the acquisition of Gerber Technology. Consolidated shareholders' equity amounted to 370 million euros (192.2 million euros at December 31, 2020). This increase is explained mainly by the capital increase carried out for the purpose of the acquisition of Gerber Technology in the total amount of 165.3 million euros.

The Group took out a 140-million-euro loan to finance the cash portion of the acquisition price of Gerber Technology in the amount of 175 million euros. At June 30, 2021, the Group's net financial debt stood at 21.9 million euros, consisting in financial debt of 139.3 million euros and available cash of 117.4 million euros.

The working capital requirement at June 30, 2021 was a negative 30.8 million euros.

3. BUSINESS TRENDS AND OUTLOOK

In its 2019 Financial Report, published February 11, 2020, Lectra had reported its long-term vision and its new strategic roadmap for the 2020-2022 period. While the COVID-19 epidemic and its consequences had a very significant impact in 2020, most of the objectives of this 2020-2022 strategic roadmap remain valid, and particularly the acceleration towards Industry 4.0.

Financial objectives for 2022

Following the February 8, 2021 announcement of Lectra's proposal to acquire Gerber Technology, the Group reported on the 2022 financial objectives for the combined entity.

To provide a better indicator for measuring the results following this acquisition, the Group has decided to employ EBITDA before non-recurring items to measure its operational performance.

Lectra has set itself the 2022 objective of returning to the level of combined revenue achieved by Lectra and Gerber Technology in 2019, which came to 482 million euros, and generating an EBITDA margin before

non-recurring items in the range of 17% to 20% by adding the expected synergies to the operational performance of the two groups.

2021 outlook and financial objectives

Earlier in the year, the Group stated its 2021 objectives before taking into account the acquisition of Gerber Technology, namely, to achieve revenues in the range of 250 to 268 million euros (+9% to +17% like-for-like) and income from operations before non-recurring items in the range of 27 to 34 million euros (+27% to +60% like-for-like).

In light of the results for the first half of the year and the order backlog on June 30, the Group has raised its objectives for the Lectra 2020 scope to revenues in the range of 269 to 281 million euros (+16% to +21% like-for-like) and income from operations before non-recurring items in the range of 35 to 40 million euros (+51% to +77% like-for-like).

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After the integration of Gerber Technology, the Group has set the objectives of achieving 2021 revenues in the range of 364 to 390 million euros (+54% to +65% at actual exchange rates) and EBITDA before non-recurring items in the range of 54 to 64 million euros (+44% to +71% at actual exchange rates).

These scenarios for 2021 are based on actual exchange rates for H1, and the closing rates on June 30, 2021, particularly \$1.19/€1, for H2 2021.

Confidence in growth prospects for the short and medium-term

Bolstered by the strength of its business model, its roadmap fully geared to the demands of Industry 4.0, and the new opportunities arising from the acquisition of Gerber Technology, the Group is confident in its prospects for the short and medium-term.

Nemetschek SE continues its highly profitable growth course in Q2 and increases its forecast for the fiscal year 2021

29 July 2021

The Nemetschek Group one of the world's leading software providers for the building industry, has increased its forecast for the current financial year 2021 following a very strong second quarter with new record figures for revenues and earnings. The currency-adjusted revenue growth is now expected to be in the range of 12% to 14% while the EBITDA margin is targeted to be between 30% and 32%.

The successful business development is attributable to Nemetschek's attractive software solutions, the consistent implementation of strategic priorities as well as the high level of commitment of the organization and management. "We are currently profiting from our very strong positioning with our customers and the high demand for our digital solutions. We were consequently able to continue with our strong and highly profitable growth in the second quarter. The first half year's development therefore confirms our strategy to further internationalize our business, to reduce complexities within the Group and to acquire new customers," said Dr. Axel Kaufmann, Spokesman of the Executive Board and CFOO. "This outstanding business development has led to the increase of our targets for the financial year 2021."

Major key figures for the Group in Q2 and the first half of 2021

- In Q2, Group revenue rose by 17.2% (currency-adjusted: 21.5%) to EUR 165.9 million (Q2 2020: EUR 141.6 million). The cumulative Group revenue for the first six months increased to EUR 324.3 million, a growth of 12.5% (currency-adjusted: 16.7%) compared to the previous year's revenue of EUR 288.2 million.

- In addition to the stronger license business, which grew by 24.7% in Q2 (currency-adjusted: 30.0%) to EUR 58.2 million, recurring revenues from subscriptions and SaaS continued to be main growth drivers. Revenues from subscriptions / SaaS grew by 47.4% (currency-adjusted: 53.1%) to EUR 30.2 million. For the first six months of the year, licenses grew by 13.1% (currency-adjusted: 17.8%) to EUR 113.3 million. In addition, Nemetschek increased subscriptions / SaaS revenues by 45.7% (currency-adjusted: 51.5%) to EUR 58.5 million in H1. Consequently, the proportion of subscriptions / SaaS as a percentage of total revenues increased from 13.9% last year to 18.0% today.

- In Q2, the consolidated operating earnings before interest, tax and depreciation and amortization (EBITDA) rose over-proportionally by 38.3% (currency-adjusted: 43.3%) to EUR 56.3 million (previous year's quarter: EUR 40.7 million). As a result of the high growth and increased efficiency, the EBITDA margin expanded considerably to 34.0% (Q2 2020: 28.8%). In H1-21, the EBITDA margin increased to 32.7% (previous year: 28.7%).

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- The net income for the quarter grew by 56.9% to EUR 33.1 million (previous year: EUR 21.1 million). Consequently, the Q2 earnings per share increased to EUR 0.29 (previous year: EUR 0.18). The net income for the first half of the year rose by 47.1% to EUR 62.6 million, corresponding to earnings per share of EUR 0.54 (previous year: EUR 0.37).

Strategic focus points and segment overview

- In the second quarter, the Nemetschek Group successfully implemented its start-up strategy, with investments in two young and innovative companies. In addition to the fast-growing German company Sablono - a digital solution provider for increasing efficiency in the construction process - Nemetschek invested in the US start-up Reconstruct - an expert in the quality control of construction sites with its artificial intelligence-based solutions.

- The Design segment, which focuses mainly on Europe, was able to continue its double-digit revenue growth from the first quarter in Q2 as well, which was attributable to the increase in revenue from licenses as well as from subscriptions. The revenue for the quarter increased by 16.4% (currency-adjusted: 19.2%) to EUR 84.5 million. The EBITDA margin rose to 32.7% (Q2 2020: 31.8%).

- The Build segment, which primarily targets construction companies in the USA and the German-speaking region, also continued to profit strongly from the very favorable environment in the construction sector. Revenues in Q2 rose by 13.5% (currency-adjusted: 20.4%) to EUR 54.7 million. The EBITDA margin of 45.1% was significantly above the corresponding previous year's figure (38.0%). In the second quarter, the Bluebeam brand achieved the highest increase in new users in the company's history. Based on the current record growth in new users, Bluebeam will choose a more conservative approach for the planned transition of its business to subscription models in order to take advantage of these additional opportunities. At the same time, Bluebeam will also be able to test its new subscription solutions for a longer period with selected customers in order to gain even more valuable feedback and insights. Nemetschek is convinced that this approach will maximize the benefits for its customers, support its business development, and offer the possibility to start the transition from an even higher user base in 2022.

- In the Manage segment, which focuses on the European commercial building sector, the market has continued its recovery, even though the investment volume of building operators has not yet reached pre-crisis levels. In Q2, revenues grew by 15.6% (currency-adjusted: 15.5%) to EUR 11.1 million. The EBITDA margin reached 10.0% (previous year's period: 17.7%).

- The Media & Entertainment segment continued on its growth course and profited from the conversion to subscription models. Revenues in Q2 grew by 27.7% (currency-adjusted: 33.9%) to EUR 16.5 million. The EBITDA margin expanded to 35.7%, compared to 29.8% in the second quarter last year. The profitability also improved considerably due to the by now completed integration of the Redshift and Red Giant acquisitions.

Financial outlook 2021 raised

Based on the very good business development in the first half of the year 2021 and the continued positive outlook, the Executive Board decided to raise the outlook for the financial year 2021. The currency-adjusted revenue growth is now expected to be in a range between 12% and 14% (previously: at least high single-digit percentage growth). This is accompanied by a new EBITDA margin target range of 30% to 32% (previously: 27% to 29%).

The outlook is based on the assumption that there will be no deterioration in the economic conditions in the second half of 2021 and that the Corona pandemic will continue to be under control.

Overview of quarterly key figures (Q2)

CIMdata PLM Industry Summary

In EUR million	Q2 2021	Q2 2020	Δ in %	Δ in % FX-adj
Revenues	165.9	141.6	+17.2%	+21.5%
- thereof software licenses	58.2	46.7	+24.7%	+30.0%
- thereof recurring revenues	99.9	88.9	+12.4%	+16.4%
- Subscription (part of recurring revenues)	30.2	20.5	+47.4%	+53.1%
EBITDA	56.3	40.7	+38.3%	+43.3%
Margin	34.0%	28.8%		
EBIT	42.3	28.4	+48.8%	+53.9%
Margin	25.5%	20.1%		
Net income (Group shares)	33.1	21.1	+56.9%	
Earnings per share in EUR	0.29	0.18	+56.9%	
Net income (Group shares) before amortization of purchase price allocation (PPA)	39.2	26.1	+50.1%	
Earnings per share before PPA in EUR	0.34	0.23	+50.1%	

Overview of quarterly key figures per segment (Q2)

In EUR million	Q2 2021	Q2 2020	Δ in %	Δ in % FX-adj.
Design				
Revenues	84.5	72.6	+16.4%	+19.2%
EBITDA	27.6	23.1	+19.5%	+18.4%
EBITDA margin	32.7%	31.8%		
Build				
Revenues	54.7	48.2	+13.5%	+20.4%

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EBITDA	24.7	18.3	+35.0%	+42.2%
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EBITDA margin	45.1%	38.0%		
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Manage

Revenues	11.1	9.6	+15.6%	+15.5%
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EBITDA	1.1	1.7	-34.3%	-33.1%
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EBITDA margin	10.0%	17.7%		
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Media & Entertainment

Revenues	16.5	12.9	+27.7%	+33.9%
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EBITDA	5.9	3.8	+53.0%	+68.7%
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EBITDA margin	35.7%	29.8%		
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Overview of half-year key figures

In EUR million	H1 2021	H1 2020	Δ in %	Δ in % FX-adj
Revenues	324.3	288.2	+12.5%	+16.7%
- thereof software licenses	113.3	100.1	+13.1%	+17.8%
- thereof recurring revenues	196.1	175.0	+12.0%	+16.2%
- Subscription (part of recurring revenues)	58.5	40.1	+45.7%	+51.5%
EBITDA	105.9	82.6	+28.3%	+34.8%
Margin	32.7%	28.7%		
EBIT	81.0	57.6	+40.6%	+48.0%
Margin	25.0%	20.0%		
Net income (Group shares)	62.6	42.5	+47.1%	
Earnings per share in EUR	0.54	0.37	+47.1%	

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Net income (Group shares) before amortization of purchase price allocation (PPA)	72.5	52.4	+38.3%
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Earnings per share before PPA in EUR	0.63	0.45	+38.3%
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Overview of half-year key figures per segment

In EUR million	H1 2021	H1 2020	Δ in %	Δ in % FX-adj.
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Design

Revenues	168.4	149.8	+12.4%	+15.2%
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EBITDA	55.5	46.2	+20.0%	+22.5%
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EBITDA margin	33.0%	30.9%		
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Build

Revenues	105.7	96.8	+9.1%	+15.7%
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EBITDA	46.3	37.0	+25.2%	+33.1%
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EBITDA margin	43.8%	38.2%		
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Manage

Revenues	22.0	19.6	+12.3%	+12.3%
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EBITDA	1.9	2.7	-28.6%	-30.6%
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EBITDA margin	8.8%	13.8%		
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Media & Entertainment

Revenues	31.2	25.6	+21.9%	+27.9%
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EBITDA	10.8	6.9	+57.4%	+67.0%
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EBITDA margin	34.8%	26.9%		
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PTC Announces Fiscal Third Quarter 2021 Results

28 July 2021

PTC reported financial results for its fiscal third quarter ended June 30, 2021.

"Our performance in the third quarter and year to date reflects continued strong execution. We again delivered double-digit top line growth, leading to solid operating and free cash flow results," said James Heppelmann, President and CEO, PTC.

"This performance reflects how PTC's 'Digital Transforms Physical' strategy is resonating with customers and driving demand for our Core CAD and PLM solutions as well as our new Onshape and Arena SaaS offerings," said Heppelmann. "Our breakthrough technologies across the product portfolio are gaining mindshare as customers are realizing the value these innovative solutions can bring to their organizations."

"The SaaS delivery model is just beginning to disrupt the industrial technology market and I am excited that PTC has carved out a leadership position at the forefront of that paradigm shift," continued Heppelmann. "By delivering CAD, PLM, IOT, and AR technologies in the cloud, customers can work faster, reduce total cost of ownership, be more efficient and increase the return on their investment over the long-term."

Third quarter 2021 highlights¹

Key operating and financial highlights are set forth below. For additional details, please refer to the Q3'21 earnings presentation and financial data tables that have been posted to the Investor Relations section of our website at investor.ptc.com.

- **ARR** was \$1.42 billion in Q3'21, representing growth of 18%, or 15% in constant currency, compared to Q3'20, in line with our guidance. Organic growth was 14% in Q3'21, or 11% in constant currency, compared to Q3'20.
- **Revenue** was \$436 million in Q3'21 compared to \$352 million in Q3'20, growth of 24%, or 19% in constant currency, driven primarily by strong execution, as well as the impact of up front license revenue recognition under ASC 606, and a modest contribution from Arena.
- **Cash flow** from operations was \$88 million and free cash flow was \$85 million in Q3'21, in line with our expectations, compared to Q3'20 cash flow from operations of \$105 million and free cash flow of \$99 million.
- **Operating margin** was 17% in Q3'21, compared to 18% in Q3'20. Non-GAAP operating margin in Q3'21 was 31%, compared to 29% in Q3'20.
- **Total cash and cash equivalents** as of the end of Q3'21 was \$366 million; gross debt was \$1.5 billion. We repaid \$30 million on our revolver in Q3'21.

¹ *We include operating and non-GAAP financial measures in our operational highlights. The detailed definitions of these items and reconciliations of Non-GAAP financial measures to comparable GAAP measures are included below and in the reconciliation tables at the end of this press release.*

Fiscal 2021 Guidance

"Year to date, PTC has delivered strong ARR, Revenue, EPS, Operating Cash Flow and Free Cash Flow, consistent with our guidance throughout the year. We remain on track to deliver against our full year guidance on a constant currency basis," said Kristian Talvitie, EVP and CFO, PTC.

Our FY'21 financial guidance includes the assumptions below, which remain unchanged other than updating currency impact on ARR:

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- Our current guidance assumes a ~60 bps positive currency effect in FY'21.
- Macroeconomic conditions related to the COVID-19 crisis improve in the second-half of FY'21.
- Organic ARR growth of 10% to 12% on a constant currency basis and Arena contributes ~400 basis points of ARR growth.
- FY'21 ARR growth is inclusive of a ~2% headwind from lower-than-expected Deferred ARR exiting FY'20, primarily due to lower bookings in FY'20 reflecting the effect of the COVID-19 pandemic.
- ARR YoY growth rates, on an organic constant currency basis, are expected to be approximately linear each quarter throughout FY'21.
- Organic churn improves ~100 bps YoY.
- GAAP tax rate is expected to be ~20%, including a benefit of \$42 million related to the tax effects for Arena Solutions and an approximately \$35 million tax reserve related to a tax matter in a non-US jurisdiction. Non-GAAP tax rate is expected to be ~19%.

*In millions
except per
share amounts*

	Previous Guidance	Revised Guidance	YoY
ARR	\$1,445 - \$1,470	\$1,453 - \$1,478	14% - 16%
Cash from Operations ⁽¹⁾	~\$365		~55%
Free Cash Flow ⁽¹⁾	~\$340		~60%
Revenue	\$1,710 - \$1,740	\$1,733 - \$1,763	19% - 21%
GAAP Operating Margin ⁽²⁾	15% - 17%	17% - 19%	300 bps - 500 bps
Non-GAAP Operating Margin ⁽²⁾	31% - 32%	32% - 33%	300 bps - 400 bps
GAAP EPS ⁽²⁾	\$1.38 - \$1.59	\$1.59 - \$1.84	41% - 63%
Non-GAAP EPS ⁽²⁾	\$3.18 - \$3.39	\$3.35 - \$3.60	31% - 40%

(1) Cash from operations and free cash flow include ~\$15 million of restructuring payments, ~\$15 million of acquisition-related payments, ~\$18 million of un-forecasted payments related to the prior period tax exposure from a non-U.S. tax dispute, and ~\$5 million of incremental interest related to the Arena acquisition; free cash flow is net of capital expenditures of ~\$25 million.

(2) The FY'21 non-GAAP guidance excludes the estimated items outlined in the table below, as well as any additional tax effects and discrete tax items (which are not known or reflected). Our FY'21 non-GAAP guidance also excludes tax expense of ~\$35 million related to a non-U.S. prior period tax exposure related to foreign

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withholding taxes and a tax benefit of ~\$42 million related to Arena Solutions. Our FY'21 guidance and the table below do not reflect any anticipated gains related to our investment in Matterport, Inc.

<i>In millions</i>	FY'21
Acquisition-related charges	\$15
Intangible asset amortization expense	\$59
Stock-based compensation expense	\$180
Restructuring and other charges	\$1
Total Estimated Pre-Tax GAAP adjustments	\$255

PTC's Fiscal Third Quarter 2021 Results Conference Call

The Company will host a conference call to discuss results at 5:00 pm ET on Wednesday, July 28, 2021. To participate in the live conference call, dial (833) 670-0719 or (236) 714-2933 and provide the passcode 4499023, or log in to the webcast, available on PTC's Investor Relations website. A replay will also be available.

Rockwell Automation Reports Third Quarter Fiscal 2021 Results; Updates Fiscal 2021 Guidance

27 July 2021

Rockwell Automation, Inc. reported third quarter fiscal 2021 results.

"Rockwell delivered an outstanding quarter, with record orders and organic sales growth of 26% exceeding our expectations. These results reflect the high demand we are seeing for Rockwell's core automation and digital transformation solutions, which provide our customers with the resiliency, agility and sustainability they need to be successful for the long term," said Blake Moret, Chairman and CEO.

Fiscal 2021 Q3 Financial Results

Fiscal 2021 third quarter sales were \$1,848.2 million, up 32.6 percent from \$1,394.0 million in the third quarter of fiscal 2020. Organic sales increased 26.4 percent, currency translation increased sales by 5.1 percent, and acquisitions increased sales by 1.1 percent.

Fiscal 2021 third quarter GAAP net income attributable to Rockwell Automation was \$271.3 million or \$2.32 per share, compared to \$317.8 million or \$2.73 per share in the third quarter of fiscal 2020. The decreases in GAAP net income attributable to Rockwell Automation and Diluted EPS were primarily due to lower fair-value gains in fiscal 2021 versus fiscal 2020 in connection with our investment in PTC (the "PTC adjustments"). Fiscal 2021 third quarter Adjusted EPS was \$2.31, up 75.0 percent compared to \$1.32 in the third quarter of fiscal 2020, primarily driven by higher sales.

Pre-tax margin was 17.0 percent in the third quarter of fiscal 2021 compared to 24.0 percent in the same period last year. The decrease in pre-tax margin was primarily due to the PTC adjustments.

Total segment operating earnings were \$368.7 million in the third quarter of fiscal 2021, up 60.7 percent from \$229.4 million in the same period of fiscal 2020. Total segment operating margin was 19.9 percent compared to 16.5 percent a year ago, primarily driven by higher sales.

Cash flow provided by operating activities in the third quarter of fiscal 2021 was \$461.5 million,

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compared to \$346.2 million in the third quarter of fiscal 2020. Free cash flow in the third quarter of fiscal 2021 was \$437.0 million, compared to \$310.9 million in the same period last year, primarily due to higher Adjusted Income partially offset by higher income tax payments.

Fiscal Year 2021 Outlook

The COVID-19 pandemic and global efforts to respond to it continue to evolve. We are updating our guidance considering our performance through the first three quarters of the year, our expectation of continued orders strength, and anticipation of continued supply chain constraints.

The following table provides guidance for projected sales growth and earnings per share for fiscal 2021:

	Updated Guidance	Prior Guidance
Reported sales growth	~12%	9.0% - 12.0%
Organic sales growth	~8%	5.5% - 8.5%
Inorganic sales growth ¹	~1.5%	~1.5%
Currency translation	~2.5%	~2.0%
Diluted EPS	\$12.85 - \$13.05	\$12.53 - \$12.93
Adjusted EPS	\$9.10 - \$9.30	\$8.95 - \$9.35
Estimated impact of pending Plex acquisition ²	~\$(0.15)	—

¹Estimate for incremental sales resulting from businesses acquired in fiscal year 2020 and Oylo and Fiix acquired in the first quarter of fiscal 2021

² Assuming the acquisition of Plex Systems closes on August 31, 2021

"Our strong quarterly performance and raised outlook reflect our high level of execution and the organic and inorganic investments we continue to make to accelerate our strategy. As always, the foundation of our success lies in our talented, engaged employees around the world. Across all three business segments and in each functional area, the dedication to our customers' success sets us apart," Moret concluded.

Intelligent Devices

Intelligent Devices third quarter fiscal 2021 sales were \$882.9 million, an increase of 33.8 percent compared to \$659.9 million in the same period last year. Organic sales increased 28.8 percent and currency translation increased sales by 5.0 percent. Segment operating earnings were \$193.6 million compared to \$111.6 million in the same period last year. Segment operating margin increased to 21.9 percent from 16.9 percent a year ago, mainly due to higher sales.

Software & Control

Software & Control third quarter fiscal 2021 sales were \$509.6 million, an increase of 39.7 percent compared to \$364.7 million in the same period last year. Organic sales increased 31.5 percent, currency translation increased sales by 5.5 percent, and acquisitions increased sales by 2.7 percent. Segment operating earnings were \$128.3 million compared to \$82.1 million in the same period last year. Segment operating margin increased to 25.2 percent from 22.5 percent a year ago, driven by higher sales partially offset by higher investment spend.

Lifecycle Services

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Lifecycle Services third quarter fiscal 2021 sales were \$455.7 million, a increase of 23.4 percent compared to \$369.4 million in the same period last year. Organic sales increased 17.2 percent, currency translation increased sales by 4.6 percent, and acquisitions increased sales by 1.6 percent. Segment operating earnings were \$46.8 million compared to \$35.7 million in the same period last year. Segment operating margin increased to 10.3 percent from 9.7 percent a year ago, primarily due to higher sales, partially offset by the reinstatement of incentive compensation.

Supplemental Information

Corporate and Other - Fiscal 2021 third quarter corporate and other expense was \$29.2 million compared to \$26.4 million in the third quarter of fiscal 2020.

Purchase Accounting Depreciation and Amortization - Fiscal 2021 third quarter purchase accounting depreciation and amortization expense was \$12.9 million, up \$2.3 million from the third quarter of fiscal 2020.

Tax - On a GAAP basis, the effective tax rate in the third quarter of fiscal 2021 was 14.2 percent compared to 6.1 percent in the third quarter of fiscal 2020. The higher effective tax rate in the third quarter of fiscal 2021 was primarily due to the tax effects of the fair-value adjustments recognized in fiscal 2021 and fiscal 2020 in connection with our investment in PTC, partially offset by other discrete items. The Adjusted Effective Tax Rate for the third quarter of fiscal 2021 was 14.6 percent compared to 14.1 percent in the prior year.

Share Repurchases - During the third quarter of fiscal 2021, the Company repurchased approximately 0.2 million shares of its common stock at a cost of \$60.5 million. At June 30, 2021, \$613.5 million remained available under our existing share repurchase authorization.

ROIC - Return on invested capital was 40.4 percent for the twelve months ended June 30, 2021.

Non-GAAP Measures - Organic sales, total segment operating earnings, total segment operating margin, Adjusted Income, Adjusted EPS, Adjusted Effective Tax Rate, free cash flow, and return on invested capital are non-GAAP measures that are reconciled to GAAP measures in the attachments to this release.

Conference Call

A conference call to discuss the quarterly results will be held at 8:30 a.m. Eastern Time on July 27, 2021. The call will be an audio webcast and accessible on the Rockwell Automation website.

Presentation materials will also be available on the website prior to the call.

Interested parties can access the conference call by dialing the following numbers: (833) 714-0916 in the U.S. and Canada; (778) 560-2692 for other countries. Use the following passcode: 3676006. Please dial in 10 minutes prior to the start of the call.

Both the presentation materials and a replay of the call will be available on the Investor Relations section of the Rockwell Automation website through August 27, 2021.

Implementation Investments

Accenture Federal Services Wins \$729M U.S. Army Enterprise Resource Planning Contract

27 July 2021

Accenture Federal Services (AFS), a subsidiary of Accenture, has been awarded a \$729 million contract

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to help the U.S. Army Communications-Electronics Command (CECOM) transform multiple enterprise resource planning (ERP) systems into a single, consolidated model to improve efficiency, enhance readiness, and reduce costs.

AFS will support the Army Shared Services Center (SSC) with organizational change management, agile development, and quality assurance, among other capability support functions.

“We look forward to helping the Army move toward a unified ERP supported by innovative approaches and industry best practices,” said Vince Vlasho, senior managing director of Accenture Federal Services’ Defense portfolio. “This is an important opportunity to help the Army sustain its legacy systems yet enhance modernization through advanced technologies, such as automated enterprise services.”

AFS has supported the Army on other advanced technology initiatives, including a cloud-based payroll and accounting project known as the Army Morale, Welfare and Recreation Non-Appropriated Fund Integrated Financial Management System.

“We’re excited to partner with SSC on its transformation journey,” said retired Army Lt. Gen. Susan Lawrence, deputy director of Accenture Federal Services’ Defense portfolio. “AFS will bring proven commercial capabilities with our understanding of the unique needs of the military to define and optimize processes and achieve productivity improvements.”

The contract runs for six years.

Boticário Group Digitally Transforms the Manufacturing of 300 Million Products a Year with Dassault Systèmes

27 July 2021

Dassault Systèmes announced that Boticário Group, the world’s largest beauty franchise with over 4,000 points of sale in Brazil and more than fifteen countries, has selected the 3DEXPERIENCE platform to digitally transform the manufacturing of more than 300 million products per year sold under its consumer brands like O Boticário, Eudora, quem disse, berenice?, and Vult.

Boticário Group will use the “Perfect Production” industry solution experience based on the 3DEXPERIENCE platform to improve the shop floor management of its manufacturing operations and accelerate the manufacturing process at its two production plants in Brazil. Increased visibility and control will reduce inventory costs and defects and ensure regulatory compliance. These gains in quality and efficiency will support the company’s competitiveness.

“The first step in our growth strategy is to integrate manufacturing processes and improve operations with real-time monitoring and traceability. We saw Dassault Systèmes’ success with other companies in our industry and the broader value that the 3DEXPERIENCE platform could bring to our business as our strategy matures, and made the right choice,” said Leandro Balena, Industrial Director, Boticário Group.

“Boticário Group identified the need to better orchestrate its manufacturing know-how to create long-term value — a key element of today’s Industry Renaissance,” said Philippe Loeb, Vice President, Consumer Packaged Goods & Retail Industry, Dassault Systèmes. “The 3DEXPERIENCE platform offers a new approach for CPG and retail companies to address the manufacturing complexities that lead to costly delays in new product introductions, irregular product supply and idle inventories affecting brand integrity and the consumer shopping experience.”

Fundex Equipment to Offer Trimble Groundworks Machine Control System for Piling Rig Guidance

30 July 2021

Trimble and Fundex Equipment announced the availability of the Trimble® Groundworks Machine Control System for piling machine guidance as an option on Fundex Equipment foundation machines.

Trimble Groundworks is a 3D machine control system for piling rigs that improves efficiency and reduces downtime with stakeless navigation, monitoring productivity and quality, and managing design data from office to field. Trimble Groundworks helps optimize productivity, reduce driving time per pile for piling rigs and enables operations to work day or night and under almost any weather conditions. Part of the Trimble Connected Site® portfolio, Trimble Groundworks is a connected solution between office and field workflows.

"Trimble Groundworks increases the value of our equipment for our customers," said Anton Hectors, manager E-systems, Fundex Equipment. "Thanks to integration of the machine control system with our Fundex Equipment foundation machines, operators can drive piles more efficiently and with higher quality."

"Both Trimble and Fundex have a long history of providing innovative solutions for piling operations," said Kevin Garcia, general manager of Trimble's Civil Construction Solutions Division. "Trimble Groundworks technology on Fundex Equipment Foundation machines will enable our customers to maximize piling productivity and safety to new levels, with a reliable and accurate workflow."

3D Guidance

Trimble Groundworks provides accurate piling depth, direction and drill hole calculation, enabling operators to drill exactly to the required depth. The Auto-Stop feature eliminates over/under drilling and reduces machine wear and tear.

Safer Piling Workflows

When Groundworks is used with Trimble Business Center software, administrators can set avoidance zones in the design file. This can alert the operator of areas to reduce blind spots. In addition, Groundworks reduces the need for surveyors and support staff to be near the machine, making worksites safer.

Layout and Record As-Built Data

Groundworks allows for operators to create an in-field stakeless piling design and export layout and as-built reports. These reports meet the International Rock Excavation Data Exchange Standard (IREDES) for workflows for machine and software interoperability.

Availability: Trimble Groundworks is available now as a factory-fit option from Fundex Equipment.

Global go-live of CIM Database PLM at HUBER+SUHNER

27 July 2021

HUBER+SUHNER AG and CONTACT Software have successfully completed a challenging migration project. Since the beginning of June, CIM Database PLM has been the global development platform at one of the leading manufacturers of industrial connectivity.

Replacing a PDM system that had grown over many years but was no longer up to date, with millions of articles, documents, products, projects and more, is a challenge in its own. Corona-related restrictions and, as a result, only virtual meetings for months made the strategic PLM project of the globally active

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HUBER+SUHNER Group based in Switzerland more difficult. But this has not endangered the successful go-live of CIM Database.

Future-proof platform

Despite difficult conditions, HUBER+SUHNER pushed ahead with the switch to the CONTACT Elements platform and the new PLM applications, and in parallel trained around 1,000 employees worldwide. CONTACT Software and its partner T-Systems migrated the existing data stock to CIM Database and deeply integrated the system into the IT landscape and corporate processes.

The new solution is already widely used and will be further expanded as needed. "The open Elements platform allows us to expand our PLM system very flexibly," says Manfred Schien, who headed the IT project at HUBER+SUHNER. "This means we are always ready to act when new requirements come our way." Today, the company already has an application environment that comprehensively supports and secures the product development process.

Global collaboration

CIM Database ensures consistent data, uniform processes, better collaboration, and compliance at HUBER+SUHNER's development centers and production sites. Key applications include project management, product management, multi-CAD data management for AutoCAD, Catia, SolidWorks and two cable CAD systems, as well as the automatic synchronization of articles, eBOMs, documents and their changes via CONTACT's certified SAP interface into the global ERP system.

Another important PLM component for the company is Universal Classification. This core service of the Elements platform reduces the effort required for master data management, standardizes the description of PLM objects, and enables fast searches in the PLM database. HUBER+SUHNER will also link the classification module to its eCommerce systems.

In addition, CIM Database serves as a material database and, in conjunction with an EHS solution, ensures that material declarations comply with environmental and safety-related directives (RoHS, REACH, etc.).

Innovative training program

HUBER+SUHNER trained around 1000 employees worldwide digitally and to the point for the go-live of CIM Database. The company relied on a train-the-trainer concept in combination with a dedicated e-learning offering. Following instruction in CONTACT's e-learning platform, the project core team also created its own PLM courses tailored to the company's processes. This team first trained the key users at the various sites, who in turn trained their colleagues.

"A stable and highly motivated team over the entire duration of the project, the excellent know-how of the CONTACT employees involved, and open and trusting cooperation were the key factors for the project's success. CONTACT Software provided us with excellent support in every phase, so that the go-live went smoothly," says Manfred Schien. "And we can already see that CIM Database makes global collaboration within the company, as well as with customers and partners, more efficient and easier."

HUBER+SUHNER is a leading international manufacturer of electrical and optical connectivity in three key technologies: radio frequency, fiber optics and low frequency. The products that the Group develops and manufactures for the communication, transportation and industry segments are in demand worldwide. A global production network, combined with subsidiaries and agencies in over 80 countries, puts the company close to its customers. In the 2020 financial year, HUBER+SUHNER AG generated sales of CHF 737.9 million with 4,410 employees.

Hexagon improves Halberstadtwerke's utility network management capabilities

27 July 2021

Hexagon's Safety, Infrastructure & Geospatial division today announced Halberstadtwerke GmbH, the energy service provider for Halberstadt, Germany, and its surrounding region, has successfully deployed Hexagon's advanced utility geographic information system (GIS) solutions. The suite of network management tools enables Halberstadtwerke to maintain a definitive source of location-based information for managing its network of more than 779 km. It also delivers unprecedented capabilities to diagnose and alert the company of network problems.

Halberstadtwerke provides approximately 45,000 commercial and residential customers in 38 municipalities with electricity, natural gas, water and heating services in addition to energy consulting and building management technology. By leveraging Hexagon solutions, Halberstadtwerke has consolidated its multiple existing network systems into one definitive source of reliable, location-based information. This has delivered significant performance improvements, decreased maintenance costs and administrative burdens, strengthened quality assurance and enabled network tracking. Additionally, the new solution includes mobile GIS capabilities, giving workers in the field the information they need wherever they are.

The first-of-its-kind solution delivers superior diagnostic capabilities by evaluating and notifying the company when there is damage to the network or if action needs to be taken. Until now, this capability was only available for electricity services, but with the Hexagon solution, Halberstadtwerke has expanded the capability to all its utility services.

"At Halberstadtwerke, we strive to be the single source for our customers' utility needs," said Martin Hase, administrator of network information system (NIS) at Halberstadtwerke. "To ensure superb delivery of reliable services, we needed a network solution we could trust, and we knew Hexagon would be an excellent partner. Their utility GIS has been an effective solution for our needs and has helped us improve our network operations management and maintenance."

"Hexagon has a long history of supporting utilities across Germany and the world," said Maximilian Weber, senior vice president of EMEA for Hexagon's Safety, Infrastructure & Geospatial division. "Having a complete view of the network is key to delivering reliable services, so we are proud to expand our relationship with Halberstadtwerke and help them solve their network management needs."

Hexagon has pioneered the development and application of location-based systems for electric, communications, water and gas companies for decades. The company supports hundreds of utilities and communications customers around the world with solutions for network engineering, network operations and other business functions.

Infosys to Implement its Cobalt-powered IaaS Solution for Select Portfolio Servicing Inc. in Collaboration with Hitachi Vantara

29 July 2021

Infosys, the global leader in next-generation digital services and consulting, announced the renewal of its strategic collaboration with Select Portfolio Servicing Inc. (SPS) to implement its Cobalt-powered infrastructure as a service (IaaS) solution in collaboration with Hitachi Vantara. Through this engagement, Infosys will offer SPS next generation hybrid cloud, infrastructure services, and application services for the next five years.

As SPS' strategic partner, Infosys will leverage its Cobalt portfolio to design, build, operate, and

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automate a robust and resilient private cloud infrastructure as a service with on-demand flexibility and scalability. Furthermore, Infosys intends to implement hybrid cloud to maximize data centre flexibility underpinned by enhanced disaster recovery and security posture.

Murali S. Palanganatham, Chief Information Officer at Select Portfolio Servicing, Inc. stated, “We have forged a strong collaboration with Infosys over the years, which has enabled us to leverage a repertoire of services & capabilities encompassing Application development, IT operations, IaaS, SaaS and Security. By resorting to Infosys’ Cobalt solutions and leveraging their expertise in integrated infrastructure, applications, IT operations and services, we intend to continuously scale, increase performance, enhance flexibility of our technology ecosystem, and streamline IT operations, augmented by automation.”

Narsimha Rao Mannepalli, Executive Vice-President, Head of Cloud & Infrastructure Solutions, Infosys said, “Being future-ready is key to survive and compete in the current business environment. We are excited to extend our collaboration with SPS and explore new avenues for leveraging our Cobalt portfolio to address a range of technology needs on-demand in an efficient, timely, and agile manner.”

Mark Ablett, Chief Revenue Officer, Hitachi Vantara said, “We are thrilled to utilize our EverFlex infrastructure as-a-service offering in partnership with Infosys to design and operate a modern and resilient hybrid cloud transformation for SPS’s regulated financial workloads. The ability to deliver a flexible consumption model for new storage and data services will enable SPS to innovate at scale and quickly address the needs of their growing customer base.”

Leading Construction Teams are Increasingly Adopting Autodesk Build

27 July 2021

Autodesk, Inc. announced that Autodesk Build, the project management and field execution solution of Autodesk Construction Cloud, is now being used on over 8,000 active customer projects across the globe since being made available in February 2021. Construction teams are increasingly turning to Autodesk Build to bolster quality, safety and cost management workflows, and connect project data across the construction lifecycle in a single solution that is easy to deploy, adopt and use.

Contractors and owners adopting Autodesk Build to connect their project teams, data and workflows include:

- APTIM – an industrial construction, engineering and maintenance firm specializing in complex government, oil, gas, chemical and power projects
- Barton Malow – a general contractor building commercial, institutional and industrial projects across North America
- Boldt – a construction management firm building in the healthcare, industrial, commercial, food and beverage and renewable energy markets across the U.S.
- Burns & McDonnell – an engineering, construction and architecture firm working in the critical infrastructure sectors globally
- Polytek – a Belgian construction project management and engineering building complex projects for pharmaceutical and food sector clients
- Pond – an engineering, architecture, planning and construction firm serving defense, government, corporate and private sector clients worldwide
- Robson Communities – a residential developer creating master-planned active adult resort communities across the southwestern US region

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Autodesk Build unifies best-in-class features from BIM 360 and PlanGrid with powerful new capabilities to deliver a cloud collaboration environment where information sharing and workflows are both tightly-controlled and highly-configurable. The solution features collaborative workspaces for project, cost, quality and safety management, as well as field collaboration and project closeout, and ties them all together in a common data environment.

With the project management features available in Autodesk Build and its PlanGrid Build app, which is purpose-built for mobile field collaboration, teams can organize and connect on RFIs, submittals, meeting minutes and predictive insights, staying ahead of any issues that could result in project risks. Using the cost management toolset, teams can enhance collaboration with project owners and suppliers by bringing them into the system to review contracts, change orders and payment applications securely, with confidence that any of their sensitive information will be safeguarded.

"Managing information across various technology systems can be counterproductive, leaving our teams and data siloed and ultimately resulting in increased rework, delays and risks," said Werner Herbots, CEO of Polytek. "To deliver our projects with excellence, it's essential that we have a powerful construction management platform to stay connected and coordinated. Autodesk Build empowers us to manage all aspects of a project from one single location so our workflows for RFIs, submittals, change orders and other critical processes are all tightly connected, and the team can easily collaborate and track progress."

"Cost management in Autodesk Build creates transparency by gathering financial activities in a central location to easily track status and see how a change order is progressing and impacting budget," said Emily Rech, program manager at Pond. "With Autodesk Build, we can remove information silos and drive accountability across project teams."

Autodesk Build empowers stakeholders across construction teams to stay in sync, enhance collaboration capabilities, mitigate risks and enable data-driven decision making by focusing on:

- **Single source of truth** – Autodesk Build centralizes document management so teams can rely on a single source of truth for the latest project information and manage discussions around potential quality, safety, cost and schedule issues. Users only need one login and project administrators can control permissions for the various team members, trade partners and companies involved.
- **Connected data and teams** – Project stakeholders from multiple companies can connect in Autodesk Build for more efficient collaboration, ensuring everyone is in sync to minimize miscommunications and rework, and keep projects moving along schedule. With the ability to store all project data in one place and build integrations, teams can also connect their workflows throughout the lifecycle of a project, from design to operations.
- **Predictive analytics and insights** – Centralized data collection initiates a strong foundation for analytics across all workflows. Stakeholders can gain visibility into project- and operation-level insights that uncover risks, drive efficiencies and further boost profit margins.

"Bringing the entire project team together in Autodesk Build's common data environment keeps everyone on the same page to minimize errors and the need for anyone to wonder, 'Am I getting this right?'" said Jim Lynch, senior vice president and general manager, Autodesk Construction Solutions. "Significant adoption for Autodesk Build in the five short months since it's been available signals that teams across the industry are making strategic technology investments to maximize their ability to deliver high quality projects within budgets and timelines."

Neptune Energy Partners with TCS to Become an Insights-Driven, Cloud-First Organization

29 July 2021

Tata Consultancy Services (TCS), a leading global IT services, consulting and business solutions organization, has helped Neptune Energy successfully build a cloud-native data and analytics platform, embrace automation to transform its IT operations and accelerate its cloud transformation journey.

Neptune chose TCS as its strategic partner for its transformation journey to become an insights-driven, cloud-first organization. It looked to leverage TCS' deep contextual knowledge, expertise in the oil and gas domain and vast experience in driving digital transformations to realize these objectives.

TCS used its Machine First™ Delivery Model and expertise in advanced technologies to standardize and automate IT operations, resulting in more user-centric and agile operations, reduced mean time to resolve, and enhanced operational resilience.

Using a source-independent ingestion framework, TCS developed a robust, scalable, and secure cloud-native data and analytics platform for Neptune's oil and gas operations. The platform delivers data on demand and enables evidence-based decision making, across functions such as health and safety – helping the company measure key KPIs related to the safety of workers and mitigate risks.

Additionally, TCS is helping Neptune accelerate its adoption of cloud technologies as part of its Cloud First strategy, to further enhance business agility and scalability. It has used cloud-native integration services to enable seamless and reliable connectivity across applications and services in eight countries. The cloud transformation journey is enabling Neptune to unlock greater environmental benefits by achieving carbon reduction and supporting its environment social and governance strategy.

“The development of an ecosystem of partnerships with leading organizations that supplement and complement our capabilities is an important component of Neptune Energy's digital transformation strategy. This aims to enhance the safety and efficiency of our business and reduce environmental impacts, and we are pleased to partner with TCS on our digitalization journey,” said **Kaveh Pourteymour, CIO, Neptune Energy.**

Seema Mehra, Business Head, Energy & Resources – UK, Europe and ANZ,

TCS, said, “Progressive companies in the energy sector are embarking on multi-horizon cloud transformation journeys to enhance operational resilience, become more insights-driven and increase business agility. We are delighted to partner with Neptune Energy in building a future-proof cloud-based digital core that will serve as a foundation for accelerated innovation and differentiation in their journey towards a sustainable future.”

Stio Scales New Heights with Centric PLM

26 July 2021

Stio, the outdoor apparel brand has selected Centric Software's Product Lifecycle Management (PLM) solution for emerging enterprises, Centric SMB. 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.

Headquartered in Jackson Hole, WY at the foot of the Teton mountains, Stio connects people with the outdoors through a broad assortment of end-use products that run the gamut from technical outerwear like ski jackets, to casual lifestyle sportswear like flannel shirts and canvas pants, packs and accessories.

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Their products can be found at stio.com, in their catalogs, and the Stio Mountain Studio® retail stores in Jackson and Teton Village, Wyoming, Park City, Utah and Boulder, Colorado.

Stio already had a PLM system in place but turned to Centric instead. Says Kelly Hill, Chief Product Officer on making the switch, “There were two big factors: one, Stio is a high-growth organization—for the last five years, we’ve been growing 50% year-over-year from a revenue standpoint and see it continuing into the future. When we chose Centric, we understood at a product creation level, that we needed something scalable. Two, we wanted a solution with established best-practices in place that we could easily adopt, and Centric absolutely has that guidance for us.” Other persuasive points were the reporting capabilities/data analysis, the push/pull of data, the potential to facilitate sustainability and finally, that the Centric SMB option had the features they needed and fell within budget for Stio as an emerging brand.

The implementation was 100% remote and took 10 weeks. “During implementation we had great support from the Centric team. Two Stio subject matter experts were trained and that really facilitated discovery and covered a lot of the ‘can we’ and ‘what ifs’ that we anticipated with the new system,” says Hill. “We adapted and migrated all of our data for a fall 2021 production cycle. It is our second season so a lot of the groundwork is laid on the material side; we’re really only now implementing on the design side, which we didn’t do before. We actually expect that true efficiency, true ROI will come this fall as we annualize our in-system development.”

The users eagerly took to Centric SMB. Hill notes, “I have the benefit of getting to see everything happen in real time. Everyone is really gaining proficiency quickly and the output from the system is serving the greater need.”

Chris Groves, President and CEO of Centric Software says, “I am pleased that Stio has chosen to partner with Centric on their digital transformation journey. Their products encourage the outdoor lifestyle many of us seek to enjoy. At their current growth rate, they are well-positioned to continue providing apparel to adventurers for many years to come.”

Product News

Cadence Extends Digital Design Leadership with Revolutionary ML-based Cerebrus, Delivering Best-in-class Productivity and Quality of Results

22 July 2021

Cadence Design Systems, Inc. announced the delivery of the Cadence® Cerebrus™ Intelligent Chip Explorer, a new machine learning (ML)-based tool that automates and scales digital chip design, enabling customers to efficiently achieve demanding chip design goals. The combination of Cerebrus and the Cadence RTL-to-signoff flow offers advanced chip designers, CAD teams and IP developers the ability to improve engineering productivity by up to 10X versus a manual approach while also realizing up to a 20% better power, performance and area (PPA).

With the addition of Cerebrus to the broader digital product portfolio, Cadence offers the industry’s most advanced ML-enabled digital full flow, from synthesis through implementation and signoff. The new tool is cloud enabled and utilizes highly scalable compute resources from leading cloud providers to rapidly meet design requirements across a wide range of markets including consumer, hyperscale computing, 5G communications, automotive and mobile.

Cerebrus provides customers with the following benefits:

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- **Reinforcement ML:** Quickly finds flow solutions human engineers might not naturally try or explore, improving PPA and productivity.
- **ML model reuse:** Allows design learnings to be automatically applied to future designs, reducing the time to better results.
- **Improved productivity:** Lets a single engineer optimize the complete RTL-to-GDS flow automatically for many blocks concurrently, allowing full design teams to be more productive.
- **Massively distributed computing:** Provides scalable on-premises or cloud-based design exploration for faster flow optimization.
- **Easy-to-use interface:** Powerful user cockpit allows interactive results analytics and run management to gain valuable insights into design metrics.

“Previously, design teams didn’t have an automated way to reuse historical design knowledge, leading to excess time spent on manual re-learning with each new project and lost margins,” said Dr. Chin-Chi Teng, senior vice president and general manager in the Digital & Signoff Group at Cadence. “The delivery of Cerebrus marks an EDA industry revolution with ML-driven digital chip design where engineering teams have a greater opportunity to provide higher impact in their organizations because they can offload manual processes. As the industry continues to move to advanced nodes and design size and complexity increase, Cerebrus lets designers achieve PPA goals much more efficiently.”

Cerebrus is part of the broader Cadence digital full flow, working seamlessly with the Genus™ Synthesis Solution, Innovus™ Implementation System, Tempus™ Timing Signoff Solution, Joules™ RTL Power Solution, Voltus™ IC Power Integrity Solution and Pegasus™ Verification System to provide customers with a fast path to design closure and better predictability. The new tool and the broader flow support the company’s Intelligent System Design™ strategy, which enables pervasive intelligence for design excellence.

Customer Endorsements

“To efficiently maximize the performance of new products that use emerging process nodes, digital implementation flows used by our engineering team need to be continuously updated. Automated design flow optimization is critical for realizing product development at a much higher throughput. Cerebrus, with its innovative ML capabilities, and the Cadence RTL-to-signoff tools have provided automated flow optimization and floorplan exploration, improving design performance by more than 10%. Following this success, the new approach will be adopted in the development of our latest design projects.”

- Satoshi Shibatani, director, Digital Design Technology Department, Shared R&D EDA Division, Renesas

“As Samsung Foundry continues to deploy up-to-date process nodes, the efficiency of our Design Technology Co-Optimization (DTCO) program is very important, and we are always looking for innovative ways to exceed PPA in chip implementation. As part of our long-term partnership with Cadence, Samsung Foundry has used Cerebrus and the Cadence digital implementation flow on multiple applications. We’ve observed more than an 8% power reduction on some of our most critical blocks in just a few days versus many months of manual effort. In addition, we are using Cerebrus for automated floorplan power distribution network sizing, which has resulted in more than 50% better final design timing. Due to Cerebrus and the digital implementation flow delivering better PPA and significant productivity improvements, the solution has become a valuable addition to our DTCO program.”

- Sangyun Kim, vice president, Design Technology, Samsung Foundry

CCE expands to BIM market with Revit support in EnSuite-Cloud ReVue

27 July 2021

CCE, a leading provider of advanced CAD interoperability technology, announced a major upgrade to its flagship real-time 3D Collaboration software, EnSuite-Cloud ReVue.

Effective immediately, users can download ReVue LiveLink integrations for **Autodesk Revit®**. Users have the option to download LiveLink for Revit 2021 or 2022 versions. This new release expands CCE's support to the rapidly growing BIM (Building Information Modeling) space. This comes close on the heels of LiveLinks for **Autodesk Inventor and Solid Edge** announced last month.

“Since the release of EnSuite-Cloud ReVue earlier this year, we have been receiving several requests from users requesting us to extend support to the rapidly growing BIM space. Clearly Revit is a market leader in BIM. This release for LiveLink for Revit will be a perfect collaboration solution for people who wish to share their Revit designs with team members or customers and see results of their design modifications updated in real-time in the collaboration session. This is by far the most secure real-time collaboration solution in the marketplace today for Revit users to share their designs,” 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 glTF**, 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 useful for collaboration during conceptual design or engineering changes, where the CAD model needs to be edited and the results updated in real-time with participants in the collaboration session. This one-step access saves time and makes real-time CAD collaboration natural and easy. Users can download ReVue LiveLink for the CAD systems for free. However, an Organizer license is needed to access the LiveLink products.

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

Cloud Editions 21.3 Strengthens Information Management in the Cloud at Scale

20 July 2021

OpenText™ announced the release of OpenText™ Cloud Editions (CE) 21.3, delivering innovations in the OpenText Cloud that will enable businesses of all sizes to become more intelligent, secure and connected.

“Organizations are embracing the cloud as a key pillar in their digital transformation and growth strategies,” said Mark J. Barrenechea, CEO & CTO, OpenText. “OpenText Cloud Editions supports both by delivering information management in the cloud at scale, empowering businesses of all sizes to master modern work, power modern experiences, digitize supply chains and strengthen cyber resilience.”

CIMdata PLM Industry Summary

CE 21.3 features a number of significant new products, solutions and integrations to support Information Management in the cloud at scale, including:

- OpenText™ Experience CDP, a new customer data platform, and an essential feature of the highly integrated OpenText™ Experience Platform. Experience CDP increases prospect conversion rates by unifying customer data from first- and third-party data sources, including Google Marketing Platform, to enable better targeting and more relevant personalized and omni-channel experiences.
- OpenText™ Magellan Risk Guard, a new AI solution that helps organizations ensure compliance and mitigate risk by uncovering and remediating potentially sensitive, inappropriate, or detrimental text, images, or video content within business systems. Risk Guard is easy to deploy and includes 20 prebuilt AI models that identify risk across 50 pre-defined categories such as personally identifiable information (PII), drugs, alcohol and violence.
- An update to OpenText™ Extended ECM for Office 365, that provides deeper integrations with Microsoft Teams, further simplifying collaboration, productivity, and compliant control of information.
- As part of OpenText's commitment to deliver information management solutions as Cloud APIs, OpenText™ Developer Cloud now delivers APIs for content services, fax, notifications, capture and security. Webroot® real-time threat protection and monitoring APIs help protect sensitive data and reduce the potential risks of cyber-attacks. Additionally, the OpenText™ Business Network Cloud now offers connectors to 135 API in the SAP S/4HANA® Cloud, enabling organizations to unlock real-time data flow and minimize disruptions when migrating to the SAP S/4HANA Cloud.

“The OpenText Cloud solution is meeting our objectives to help us lower and stabilize our operational costs and provide access for our customers, improving security, monitoring and administration,” said Joris Verberckmoes, Head of Delivery and Operations at Engie Electrabel.

CE 21.3 also contains significant updates across each of the OpenText Clouds, as well as new solutions tailored to address unique industry requirements.

The **OpenText Content Cloud** empowers modern work by improving user and process productivity, and automating the management of critical business content. Further innovations beyond OpenText Extended ECM include:

- OpenText™ Core for Regulatory Plans, a SaaS solution for Life Sciences helps organizations plan, manage, and track complex regulatory submissions.
- OpenText™ Core Share for SAP solutions, available at the SAP Store, enables secure remote collaboration in the cloud within an SAP business process.
- OpenText™ Axcelerate™ delivers enhanced chat review functionality and expanded collection capabilities for Google Workspace and Microsoft Exchange.

The **OpenText Business Network Cloud** connects business to global commerce and trading networks through a unified integration platform. In addition to new API connectors, innovations include:

- OpenText™ Lens is now available in OpenText™ Trading Grid to provide near real-time visibility for B2B transactions, tailored experiences, and new reporting capabilities to enhance productivity and communication.
- OpenText™ IoT Platform simplifies the user experience and delivers APIs with operational

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features for internalization and device onboarding and provisioning.

The **OpenText Experience Cloud** provides a single platform to deliver modern engagements across the customer journey. In addition to the new customer data platform, innovations include:

- OpenText™ Media Management now integrates with Shutterstock to streamline image search and asset management.
- OpenText Media Management also introduces a new Jobs Dashboard that provides immediate visibility of all current projects, helping teams and stakeholders to optimize collaboration and meet deadlines.
- The launch of the OpenText Voyager Connect Community, an online community for digital experience and information management professionals to network and share ideas, content, and resources.

The **OpenText Security & Protection Cloud** strengthens cyber resilience by protecting and securing data to withstand and quickly recover from cyberattacks and accidental data loss. Recent innovations include:

- OpenText™ Managed Detection & Response (MDR) Service helps enterprise customers uncover hidden risks and threats to help prevent financial, legal, or reputational impact.
- OpenText™ EnCase Forensic and OpenText™ EnCase Endpoint Investigator now enable the collection of social media artifacts from cloud-based collaboration and storage applications including, Microsoft Teams, Amazon S3, Dropbox and Box.
- Webroot® Business Endpoint Evasion Shield offers better protection by identifying threats earlier in the attack chain.
- Webroot® Security for Chromebook now includes antivirus and web filtering protection.
- Webroot® Security Awareness Training delivers regionalized and localized content in additional languages for EMEA.

The **OpenText Developer Cloud** is a single source of cloud API services that helps developers quickly bring their ideas to life using powerful, developer-trusted APIs. Enhancements to the Developer Cloud include more accessible API documentation, new learning materials, and a new Developer forum. Underpinning each of the clouds are OpenText™ Advanced Technologies. In addition to Risk Guard, new innovations include:

- Support for Amazon EMR Data Lake and a text classification model for a Life Sciences taxonomy using Medical Subject headings (MeSH).
- Deeper integrations between OpenText™ Core Case Management and OpenText™ Core Content to better connect content to processes.

OpenText Industry Solutions are tailored to address the unique requirements of individual industries, bringing together information management products from across the OpenText portfolio. New solutions in CE 21.3 support the following industries:

- Utilities: Customer Experience Platform for Utilities by OpenText includes authenticated customer portals and deep integration with SAP to improve the quality of customer experience and drive loyalty and revenue.
- Life Sciences: Clinical Data Intelligence from OpenText™ accelerates regulatory approvals while ensuring governance by automating the capture, analysis and filing of clinical trial documentation for Life Sciences.

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- Government: Cloud for Government from OpenText™ empowers Federal agencies with stronger, risk-based security features, enabling deeper visibility, automation, and collaboration.
- Manufacturing: Asset Track for Manufacturing from OpenText™ tracks the location and movement of assets in real-time to eliminate manual processes and asset loss, increasing production output and reducing operating costs.

DXC Technology Launches New Multi-Tenant VMware Cloud on AWS Service

27 July 2021

DXC Technology announced the launch of a new “pay-per-use” cloud consumption service model as part of its hybrid cloud and multi-cloud offering, expanding upon its partnerships with VMware and Amazon Web Services Inc. (AWS).

The first-of-its-kind in the Asia Pacific region, this integrated, scalable and more secure platform provides customers with a bridge from their on-premises environments to the cloud with no minimum term or volume commitments. DXC’s customers from Australia and New Zealand will be able to migrate and extend their existing VMware environments to AWS while keeping their mission-critical infrastructure on premises.

“Ninety percent of businesses see cloud as central to becoming more resilient, seeking technical and commercial innovation to help them achieve business efficiencies. With this new platform, our customers will be able to modernise from the core and migrate their workloads seamlessly to the cloud, taking advantage of scalability and cost benefits,” said Seelan Nayagam, President Asia Pacific, DXC Technology.

“As our customers modernise their applications and transform to digital businesses, they are harnessing the power of the cloud to deliver a high-quality experience for their employees and customers,” said Uma Thana Balasingam, Vice President Partner and Commercial Sales, VMware APJ. “Agile collaboration with our ecosystem is key to the success of these transformations and provides opportunities for our partners to accelerate their revenue and profitability around our solutions. With DXC’s new Multi-Tenant VMware Cloud on AWS service, businesses gain the expertise and flexibility to choose how they move from their on-premises environments, and scale when needed. We look forward to working with DXC to help customers benefit from this innovation.”

VMware Cloud on AWS brings VMware’s enterprise-class Software-Defined Data Centre software to AWS and enables customers to run production applications across VMware vSphere®-based private, public, and hybrid cloud environments with optimised access to AWS services. DXC is the first VMware partner in region to offer this multi-tenant platform at scale, which will support customers on their cloud migration journey, datacentre exits, modernisation of existing applications, and disaster recovery.

“AWS is pleased to work with DXC to make VMware Cloud on AWS more accessible to tens of thousands of smaller organisations, helping them to modernise and transform faster and at a fraction of the cost. DXC has innovated on behalf of customers to offer VMware Cloud on AWS, accelerating transformation, reducing risk, cost, and disruption for the business,” said Corrie Briscoe, Director of AWS Partners & Alliances, Amazon Web Services Singapore.

“I’m incredibly excited about the launch of this unique service, which is now available to customers in Australia and New Zealand. This service expands our partnerships with VMware and AWS and combines our expertise and deep engineering capabilities to add yet another differentiator in our Enterprise Technology Stack,” added Nayagam.

Infor Launches New Interoperability Solution for Healthcare Industry

27 July 2021

Infor, the industry cloud company, announced its FHIR Server, the company's vision for helping healthcare organizations better leverage and analyze their data. Built on the latest web technologies, Infor FHIR Server is one of the most advanced, modern, and scalable FHIR servers commercially available. With this new application, organizations can extend their electronic health records (EHR) and clinical systems' Fast Healthcare Interoperability Resource (FHIR) and application programming interface (API) capabilities beyond their current limited support, streamline care coordination by providing needed information to providers and patients, and expedite their organization's digital transformation while utilizing existing clinical systems connected to an innovative FHIR-based ecosystem.

Healthcare data today is siloed in legacy systems that lack connectivity to innovative healthcare solutions. Infor's FHIR Server is built on the HL7 FHIR standard and makes data available using the modern API to store and exchange data. The new solution allows healthcare organizations to take advantage of today's digital innovations and engagement by enabling users to use FHIR the way they choose. This also includes regionalized support since HL7 FHIR is an international standard that is meant to be customized at regional levels. Individual regions can customize their own needs of FHIR through implementation guides, which include profiles and extensions. And, implementation guides, such as DaVinci and US Core, are preloaded. Infor Cloverleaf FHIR Server also has other features such as SMART on FHIR support, data provenance, audit logging, and encryption capabilities included by default.

Infor differentiates itself by continuing to build out a suite of products focused on the new FHIR standard, with FHIR Server being the latest addition. Together this suite provides comprehensive exposure of legacy data in a modern way with Infor FHIR Bridge translating legacy data to FHIR through prebuilt mappings, Infor Cloverleaf FHIR Server storing FHIR data for modern app consumption, and Infor API Gateway securing the perimeter and orchestrating app usage. Infor Healthcare solutions move beyond inflexible packaged software by leveraging new technologies, such as social networking, cloud computing and big data, to deliver connected, user-focused solutions that provide capabilities that are collaborative and intuitive for users. Specifically, the Infor Cloverleaf Integration Suite delivers a cost-effective solution for healthcare organizations to realize better healthcare delivery, care coordination, and patient engagement through digital innovation, contributing to better outcomes for the healthcare organization of the future.

"The demand for modern data exchange in healthcare, combined with government regulations in the 21st Century Cures Act, which mandates the use of the FHIR standard for many healthcare workflows moving forward, has driven the need for easy and immediate access to patient data based on HL7 FHIR. It's time sensitive that healthcare organizations comply with new regulations, and they need a FHIR infrastructure in place to practice modern data sharing while adhering to regulations," said Austin Awes, Infor vice president of interoperability. "Infor understands that our customers want to procure leading technologies and build innovative solutions internally, but they don't have a way to easily expose the data to these solutions. We created the Infor FHIR Server to make data available in a robust and modern way while maintaining compliance. We are committed to letting the industry know that we are evolving with it, keeping our solutions relevant and specialized to meet healthcare-specific needs to help organizations provide the highest level of patient outcomes."

OpenText Launches Advisory Services to Maximize Customer Value from Information Management Investments

27 July 2021

OpenText™ announced the launch of OpenText Advisory Services, a new strategic professional services offering to support organizations in achieving maximum value from their information management investments.

“Technology is just one piece of a successful digital transformation journey,” said Kristina Lengyel, Executive Vice President, Customer Solutions at OpenText. “OpenText has more than 3,000 experienced Information Management professionals ready to support our customers in executing their digital transformation. This hands-on expertise ensures that our customers’ Information Management investments create a competitive advantage and long-term business success.”

OpenText Advisory Services is a strategic consultation offering that enables customers to turn their digital transformation vision into an executable dynamic strategy. Advisory Services can be tailored to suit an organization’s unique needs and cover a range of information management disciplines, from strategy, governance, and adoption to security management, AI, and operational optimization. Working in close partnership with a team of experts led by a dedicated and experienced information architect, organizations will benefit from:

- A clear information management vision to optimize alignment with strategic business initiatives, manage risk, and identify opportunities for growth and innovation.
- A dynamic information management roadmap to establish an agile transformation strategy, accelerate adoption, and track bottom-line business contributions.
- A best-practice solution architecture to support roadmap initiatives, help ensure governance, and guide future investments.

“OpenText Professional Services plays a crucial role in supporting our engineers, architects, and managers,” said Deepak Sharma, Global IT Director, Business Solutions and Support, Agility Logistics “The approach empowered us digitally from the beginning, and we consider the relationship a true partnership.”

OpenText Advisory Services is also a renewable offering that can support customers year over year, ensuring they are on the right path forward. With more than 3,000 Information Management experts in OpenText Professional Services, OpenText brings three decades of knowledge and experience in managing information, driving business value, and building success for our customers.

PROSTEP PRESENTS OPENCLM: THE SOLUTION FOR THE DIGITAL THREAD

27 July 2021

Companies in the manufacturing industry face a double challenge when it comes to developing smart products and systems: They need to make the complexity of projects more manageable and at the same time be agile in their response to new requirements. PROSTEP provides them with a new tool for this purpose – OpenCLM, a lean, smart web application for generating digital threads. It ensures data transparency across domain boundaries and makes it possible for everyone involved to trace deliverables and decisions.

Ensuring end-to-end digitalization (digital thread) across different domains involves a considerable

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amount of effort on the part of those responsible in companies today. Data is typically distributed across a large number of data silos and has to be collated and linked manually. OpenCLM significantly reduces the amount of time and effort this involves. The software creates a directed web of relationships between the information objects in the individual domains. This makes it possible to locate information in heterogeneous system landscapes, record and analyze correlations and statuses, generate reports automatically and meet compliance requirements.

OpenCLM creates digital threads throughout the entire product lifecycle, providing support for a variety of different use cases. Looking forward, the application is used to manage project progress, monitor the quality and compliance of the project results, and communicate changes across domains. Looking backwards, it allows impact analyses, defect management and helps meet traceability requirements in the context of audits.

"OpenCLM is not a new super PDM but rather a lightweight web application that merely links the information objects in the domain systems and provides users with what they need to know in order to perform their work," states Dr. Steven Vettermann, the manager responsible at PROSTEP. "OpenCLM helps companies exploit the potential of the digital thread without having to change their IT landscapes or processes. "

PROSTEP's new digital thread application connects heterogeneous system landscapes (PDM/PLM, ERP, ALM (Application Lifecycle Management), etc.) via the proven OpenPDM integration platform and supplements them with additional integration and function modules. Its core functions include the integration of process and project management, maturity validation, the planning of milestones and deliverables (tasks), the coordination of cross-domain changes, and the generation and management of trace links and configurations.

OpenCLM makes it possible to link data and documents from different source systems instead of replicating them while at the same time giving due consideration to process requirements. The links are independent of the IT systems used and remain unchanged even when switching to a new system. The linked data objects are displayed with metadata such as status, change date, owner, etc. in a clear and concise cockpit, so that they can be easily compared with other data versions.

So-called baselines can be created for milestones, given points in time, etc. in order to record certain information. If required, they can also be exported, exchanged, or archived in standardized formats.

Reusable project and process templates ensure consistent and compliant project and product documentation, as required for certification purposes for example.

Schneider Electric unveils mySchneider: An all-in-one personalized digital experience for customers and partners

28 July 2021

Schneider Electric, the global leader in the digital transformation of energy management and automation, launches their personalized digital experience for enrolled customers and partners on se.com. The new all-in-one platform is designed to support their business growth and improve customer satisfaction.

The new experience includes enhancements and capabilities that enable customers and partners to differentiate in the marketplace and simplify their daily operations through:

- Harmonizing varied business services, tools, and trainings in one location
- Visualizing facility status of assets under management, contracts, life cycles and services

planned

- Recommending trainings and curriculums to drive their business forward
- Offering tailored access to favored and relevant business services paired with a customizable view
- Simplifying access with single sign-on and a new holistic customer profile where all information can be managed together
- Creating efficiency for quotes and orders in one view
- Providing easy access to customer support
- Streamlining multiple Schneider online platforms into one access

mySchneider is now the one destination customers can come for direct access to all the resources they need to manage their business. Taking into account their individual preferences, mySchneider delivers easy navigation for our customers to more easily find information. Every business needs the ability to keep pace with today's fast, connected world. By embracing digital through the latest web tools and resources, partners can create sustainable businesses that continue to grow with the industry. Beyond the new personalized interface, mySchneider offers access to new opportunities, training courses, special discounts and rewards.

"The launch of mySchneider is a testament to our continuous focus to innovate for our customers," said Erin Kalidindi, Vice President of Digital Customer Relationships at Schneider Electric. "This experience is designed with our customers, for our customers, and the MVP (minimum viable product) is just the beginning. The new personalized dashboard provides preferred services, resources, and business needs to drive productivity, save time and keep track of key business data insights in one place."

Through mySchneider, customers can access their personal notifications to new products, software releases, webinars, training curriculums, white papers, and updates on technical documentation. Schneider's ecosystem of over 650,000 partners now has a single gateway to all resources tailored to support their business, such as product information, quotations, orders, order tracking, financials, training, and partnership programs. Contractors can track and redeem their rewards program points, access training to keep current on the latest products and technology, and leverage product selectors to complete their jobs, facility managers can get an optimal view of their facility thanks to consolidated view of assets, contracts, life cycles and services, and distributors can check product prices and availability, order products, check order status, print invoices, and more. The user-specific home page highlights the contents they rely on daily from tools and resources to products and applications to additional services based on their profile.

Siemens extends Xcelerator portfolio with new functions for efficient electrical and automation design of industrial equipment

29 July 2021

Siemens Digital Industries Software announces the release of NX™ Automation Designer software and NX™ Industrial Electrical Design software, a new suite of solutions that provide a central design application for industrial electrical and automation design. These new tools can help manufacturers of production systems to manage design complexity, shorten development lifecycles and increase the quality of their designs. Direct integration with Teamcenter® software for product lifecycle management (PLM) and the entire NX design software portfolio provides a unified multidisciplinary design environment for production systems engineering.

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NX Automation Designer and NX Industrial Electrical Design provide new functions for efficient electrical and automation design of industrial equipment. Electrical engineers can complete their work faster with enhancements to connection handling and reporting, new OOTB symbols for IEC, ANSI and fluidics and 2D cabinet dimensioning. Automation engineers benefit from extended software generation capabilities for sequences and safety programs.

The latest release enables customers to get started in the world of functional design, by enabling them to start their electrical and automation design work without Teamcenter. This allows customers not looking for a complete PLM system to benefit from the electrical and automation design capabilities. By boosting engineering productivity with a new level of multi-disciplinary collaboration, NX Automation Designer addresses the growing demand for product variety from consumers by lowering businesses' IT costs.

"Today, in order to maintain profitability, you have to realize more projects with the same number of employees. Furthermore, you need to quickly react to different in complex customer requirements," says Karl Stieler, Owner STiMA GmbH & Co. KG. "This means we need the close interaction of mechanical design, electrical design and automation technology. We are perfectly prepared for the future and its challenges on the market with this solution by Siemens."

STiMA chose the NX platform to combine various disciplines – mechanical, electrical, and automation – into one environment to more efficiently manage projects and improve quality. With the help of NX and particularly NX Automation Designer, STiMA reduced their engineering time by 45% through consistent data across the different areas and a more efficient workflow. The scalability of NX benefits customers like STiMA by allowing them to start with a single module or combine different modules with each other. This is particularly notable given that the NX Automation Designer and NX Industrial Electrical Design applications can work natively (without Teamcenter) or in managed mode with Teamcenter in the background.

"Thanks to the integrated toolchain from Siemens, digitalization is even possible in small-medium size enterprises," says Wolfgang Schloegl, Vice President Digital Engineering at Siemens. "Through this toolchain a significant efficiency enhancement can be achieved in particular when realizing new products."

Synopsys Advances Application Security Testing for Developers with Rapid Scan

27 July 2021

Synopsys, Inc. announced the availability of new Rapid Scan capabilities within the company's Coverity static application security testing (SAST) and Black Duck software composition analysis (SCA) solutions. The Rapid Scan features provide fast, lightweight vulnerability detection for both proprietary and open source code. Rapid Scan is optimized for the early stages of development, particularly for cloud-native applications and infrastructure-as-code (IaC).

While comprehensive and thorough security testing is critical to managing risk in the later stages of the software development lifecycle (SDLC), it is often too time- and resource-intensive to perform full scans at every incremental step in the early stages of the SDLC. Rapid Scan complements conventional application security testing activities by enabling development teams to perform fast SAST and SCA scans at every code check-in or early-stage build without slowing them down. It allows developers to shift left efficiently and prevents security issues from propagating into the later stages of the SDLC.

"One of the hallmarks of modern software development is breaking down large processes into smaller, more manageable tasks that can be performed rapidly and concurrently in a distributed fashion," said Jason

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Schmitt, general manager of the Synopsys Software Integrity Group. "For organizations embracing DevSecOps, application security testing needs to follow suit. With Rapid Scan, Coverity and Black Duck users can run quick preventative scans to detect and eliminate surface-level vulnerabilities as their developers write and commit code, and they can use the same solutions to run deep scans later in the SDLC prior to deploying their applications."

The new capabilities include:

Coverity Rapid Scan. The new Rapid Scan capabilities of Coverity SAST provide fast security analysis of proprietary code at the developer's desktop and in continuous integration (CI) pipelines such as GitLab and GitHub Actions. Coverity Rapid Scan is optimized for cloud-native applications built on infrastructure-as-code frameworks such as Kubernetes, Terraform, and CloudFormation, and microservices such as GraphQL, Kafka, and Postman. Rapid Scan can quickly detect many of the most common security weaknesses, as well as problematic misconfiguration flaws and API misuses.

Black Duck Rapid Scan. The Rapid Scan capabilities of Black Duck SCA allows developers and release managers to perform fast dependency analysis to determine if any of the open source components in their application violate their organization's security and license policies prior to merging code into release branches. Black Duck Rapid Scan is optimized for speed and efficiency by providing developers with early insight into dependency risk and by deferring resource-intensive SCA activities such as multi-factor open source detection and generating a complete software bill of materials to later stages of the SDLC.

Intelligent Orchestration and Rapid Scan. The Coverity and Black Duck Rapid Scan capabilities can be used in conjunction with Synopsys' Intelligent Orchestration solution to automatically trigger fast SAST and SCA scans based on events in the continuous integration (CI) pipeline. Intelligent Orchestration, which enables DevOps teams to run the right security tests at the right time, can leverage Rapid Scan at early stages in the pipeline when speed and efficiency are critical, and it can run full Coverity and Black Duck scans at later stages in the pipeline when validating the quality and security of applications prior to deployment.

The version 2021.3 of Datakit's file conversion software is available

30 July 2021

Datakit, specialist in data transfer between CAD systems, announces the availability of version 2021.3 of its software. It adds support for the latest versions of ACIS, Inventor, Creo Parametric, Revit, STEP and NXformats, as well as new data reading capabilities for Rhino and CATIA V6 / 3DEXPERIENCE formats.

The latest update to Datakit's range of CAD format conversion software is available with many new features!

Support for new versions of 2D and 3D formats

It adds support for reading **new versions of CAD and BIM formats** for all Datakit software:

ACIS Reader

Datakit's ACIS file reader now supports .sat .asat .sab and .asab files in all versions of this format, up to **2021 1.0**.

Inventor Reader

Datakit's Inventor reader now supports reading .ipt and .iam files from **Inventor 2022**. The versions 9 to 2022 are therefore supported.

NX Reader

Siemens has released several new versions of NX in the past three months since the release of Datakit's V2021.2. V2021.3 already supports these new versions and can convert NX files up to **NX 1973**.

Revit Reader

The latest **Revit 2022** version is now supported.

So Datakit's Revit reading interface now supports files from Revit versions 2015 to 2022.

Creo Parametric Reader

Shortly after its release, Datakit is already able to offer an interface that supports reading files coming from **Creo Parametric 8.0** files. Datakit tools can now read and convert 2D and 3D files from version 2000i of ProEngineer, up to version 8.0 of Creo.

STEP Reader

Datakit converters now support **STEP AP209 files reading**.

Improvements for the full range of software

The V2020.3 also benefits from the continuous improvement of the dozens of CAD interfaces provided by Datakit. They are, in fact, **permanently maintained** in order to **improve their quality** and to **support new entities**, while **optimizing execution time**.

These improvements apply to all Datakit product lines: for **end users** using plug-ins or the CrossManager converter, as well as for **software developers** incorporating Datakit technology.

The most notable advancements in this release are **camera data** support for the CATIA 3DEXPERIENCE (.3dxml) file reading library, and **user attribute** support for the Rhino (.3dm) file reader.

Tipco Inc. launches 3D CAD product catalog powered by CADENAS with precision tooling components

22 July 2021

Digital parts library with customizable configurator provides customers with comprehensive product information & optimized online experience

Tipco Inc. has partnered with CADENAS to release an on-demand, 3D CAD model library with product configuration features. The company manufactures standard and custom precision tooling components for automotive, consumer goods and medical industries, including punches and die buttons. The new configuration tool enables Tipco's diverse customer base to download 3D CAD models 24/7 from anywhere in the world. Tipco's customizable 3D previews give customers the opportunity to educate themselves on the company's standard products before engaging with the customer service team.

3D CAD product catalog as an important resource for comprehensive product information for both customers and employees

With the new tool, Tipco will educate and inform stakeholders, including prospective and current customers. "We are constantly looking at ways to add and create value. This includes educating and informing stakeholders about the industry and our products," says Christopher Gilbert, President of Tipco Inc. "We'd like to be known as a valued resource where prospective and current customers can come to us for help and assistance. For example, Tipco's online configurator can be a valuable resource for 3D product visualization, CAD model data, PDF datasheets, and more."

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Tipco's 3D CAD product catalog is also a valuable internal resource. The tool allows Tipco team members to quickly access product information from almost anywhere, which helps engage customers, facilitate new conversations, and even streamline the purchasing process. Gilbert adds, "When a customer builds and downloads a model, they can easily send us the project for review. The model can start the conversation and helps us understand how the tooling will be used." Gilbert continues, "The simplicity of this tool is a game-changer for our stakeholders. The configurator makes it easy to visualize our products, adjust parameters to fit design specifications, and quickly download models in a wide range of formats."