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CIMdata News

Connecting the Past to Tomorrow with Mendix - a CIMdata Commentary

6 January 2022

Low-code platforms help manufacturers bridge legacy domains and modern digital processes

Key takeaways:

- While CAD, PDM, and ERP are often the core solutions in a digital thread, there can be hundreds of ancillary and legacy apps that contribute to the thread. Also, multiple data repositories can contain decades of data.
- Connecting data, processes, and people is easier said than done, and once established, keeping the data and integrations current with processes and procedures often requires error-prone manual work or “enrichment” on both sides of any integration.
- The digital twin paradigm requires implementing a robust and flexible digital thread to ensure virtual and physical instances function effectively and stay in sync as business and technology operations evolve.
- Using low-code solutions to support and complement the core solutions that create the digital threads is becoming a best practice approach.
- Modern low-code solutions have become mainstream in general business applications and Siemens’ incorporation of Mendix throughout its Xcelerator portfolio, including Teamcenter, NX, and MindSphere, brings a new approach to developing digital threads and bridging the past with the future.

Introduction

Manufacturers are under continuous pressure to evolve and improve how they develop, produce, and support their products and services. They are turning to advanced software to address the pressures that include extreme growth in complexity of all products and systems across the Information Technology (IT) and Operational Technology (OT) domains.[\[1\]](#) As with most complex systems, issues happen at the boundaries between areas, such as integration of mechanical and electrical/electronic data, and process domains, such as the handoff from development to manufacturing.[\[2\]](#)

Adding further to the challenges are various incumbent systems managing data within different functional domains. Each legacy application has varying data semantics and integration capabilities and when integration and data transformation are not effectively automated, manual data enrichment is needed which is often error-prone. Furthermore, poor integration and traversal of system boundaries makes effective search and traceability queries much more difficult.

The purpose of application and process integration is to make needed data more accessible. However, data and process semantics between legacy applications are different, requiring mapping and data transformation via integration solutions to create alignment. Silos also have complex dependencies such as the IT architecture of individual applications that can create mismatches. When integration is done properly, it creates a seamless digital thread that provides the functional environment needed to improve business performance.

Siemens Mendix

Mendix is a low-code application development platform, part of the Siemens Xcelerator portfolio, that helps companies improve business performance. Its rapid application development capabilities and

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extensive catalog of connectors reduce the effort and skill level required to develop sophisticated integrations and business-tailored applications. Already prior to Siemens' acquisition, Mendix was a well-known development platform used in hundreds of enterprises, including those that use SAP solutions. Since the acquisition, Mendix has been integrated into the Siemens Xcelerator portfolio, enabling Xcelerator solutions such as Teamcenter, NX, Opcenter, and MindSphere to participate more comprehensively in digital threads created using Mendix.

Mendix connectors expose an application's data to a company's business processes and integrate its data to any other connected solution. Connectors, available in the Mendix Marketplace, enable read and write access to data stored with an application and provide programmatic access to its functionality. Having access to an application's data and functional capabilities enables connectivity to be established between multiple business applications, thereby linking data across domain silos. Additional Mendix capabilities include AI-assisted logic bots, multiexperience development, data access, user interface creation, and algorithm development, which enable the creation of applications to solve business-specific issues and increase individual and organizational productivity.

CIMdata believes the connection to Xcelerator is a big win for Siemens' customers. Mendix will help them build comprehensive digital twins that extend beyond the scope of Siemens-only solutions. For Xcelerator users, Mendix supports all its functional domains, including MCAD, ECAD, software, simulation and analysis, service, procurement, logistic, MES/operations, etc. Supporting this broad range of domains enables end-to-end digital threads to be created and maintained.

Mendix is a modern platform that includes full DevOps capabilities. The low-code capabilities enable professional programmers, citizen developers, subject matter experts, and business analysts to create business-tailored applications using drag and drop methods while leveraging marketplace capabilities that accelerate and simplify development. DevOps manages the process of moving applications from the development environment through validation, approval, and production and global deployment via the marketplace.

CNHI Case Study

CNH Industrial (CNHI) is a leading global capital goods company that designs, manufactures, and supports on- and off-highway products. This global company has over 60,000 employees, who work across 67 plants and 56 R&D centers. CNHI has been a Mendix and Siemens customer for many years and has already made good use of Mendix to connect Xcelerator and non-Siemens solutions. CNHI wanted to share data spread across three systems including 2D drawings, 3D designs, and change and attribute data with suppliers. Accessing the data was time-consuming and error-prone.[\[3\]](#)

They chose Mendix to address a model-based design issue. CNHI developed their Design Product Data (DPD) solution using Mendix to connect Teamcenter, their legacy change management solution, and iView (for 2D drawings) to validate and package information from the three solutions within a single view making data available to all relevant users across the extended enterprise in just 11 weeks. "It would have taken not only significantly longer than 11 weeks, but [also] many more resources to accomplish it without the low-code environment from Mendix," according to Mr. Tom Grigas, IT Director of Product Design Systems. Using Mendix reduced the effort to package and validate data by 85%.

Conclusion

Application landscapes are complex and often contain many best-of-breed solutions and platforms with different technology stacks, user interfaces, data storage approaches, purposes, and vintages. The variability among the applications makes integration and interoperability difficult.

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Integration is often fragile and incomplete, since keeping it up to date with ever-changing software versions and business processes is difficult. What remains is a hybrid environment that requires manual, error-prone effort for people to get their jobs done. What a business needs are business-specific, personalized solutions that can be easily adapted to their changing processes, user devices, and work locations.

A robust low-code platform like Mendix can connect to these solutions and platforms and make developing cross application solutions that connect legacy solutions from the past with current and future solutions faster and easier. Siemens' use of Mendix across its Xcelerator portfolio is a game changer. It enables Xcelerator customers such as CNHI to connect the myriad legacy and modern applications across their enterprise landscape and build tailored applications quickly to adapt to changing business requirements.

Companies building digital threads, and especially those already using Siemens products, should consider Mendix to support their low-code integration and automation development needs and connect both their legacy and future applications. Mendix provides leading edge capabilities for both Siemens and non-Siemens solutions.

[1] See: <https://www.cimdata.com/en/resources/complimentary-reports-research/commentaries/item/17380-mendix-and-mindsphere-integrating-it-and-ot-to-deliver-business-performance-commentary>

[2] Research for this commentary was partially supported by Siemens Digital Industries Software.

[3] <https://www.mendix.com/blog/in-case-you-missed-it-enabling-supply-chain-collaboration-enterprise-model-based-definition-with-cnh-industrial/>

Free Webinar on The Case for Organizational Change in Support of Digital Transformations

4 January 2022

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces an upcoming free educational webinar, "Getting People to Care: The Case for Organizational Change to Support Digital Transformations." The webinar will occur on Thursday, 20 January 2022, at 11:00 a.m. (EST) and will last for one hour.

Change is a challenging, often scary event. Many people don't like change, and some don't trust change. When you want to change how people work, you must help the community where you are imposing the change to accept it. Gaining acceptance for new initiatives, such as digital transformation, requires active planning and ongoing support. Without user acceptance of an initiative, it will fail or, at least, not deliver the expected results and return on investment.

This webinar will present the importance of helping organizations embrace change related to a major digitalization initiative. CIMdata will share its view based on helping its clients through their digitalization journeys.

Attendees at this webinar will:

- Learn why organizational change management is critical for change.
- Learn how best to prepare for change.
- Learn about a model to help drive organizational acceptance of new initiatives such as product

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development digitalization.

- Gain a better understanding of how businesses can get the most out of digitalization and other initiatives.

According to John MacKrell, CIMdata's Chairman and the host for this webinar, "Many organizations CIMdata works with today are implementing new tools and processes to digitalize their enterprises. They often lack a clear understanding of how to maximize the potential of those initiatives."

Mr. MacKrell has 40+ years of experience applying computer-based solutions to engineering and manufacturing, with more than 20 years of those years at CIMdata. He has held senior positions in product management, marketing, research and development, and consulting.

This webinar will be helpful to attendees from every part of an organization since digitalization produces cross-functional impacts on product design, manufacturing, service, and other downstream product processes and product operations. People from multiple levels will find the information pertinent and valuable: senior and middle managers, PLM team participants, PLM users (engineers, manufacturing planners, installation and services practitioners, and others), IT, and anyone impacted by how an organization adopts new digital initiatives.

During the webinar, attendees will have the opportunity to ask questions about the topics discussed. To find out more, visit: <https://www.cimdata.com/en/education/educational-webinars/webinar-getting-people-to-care-the-case-for-organizational-change-to-support-digital-transformations>. To register for this webinar, please visit <https://register.gotowebinar.com/register/8752942008027542799>.

Acquisitions

Atos completes acquisition of Cloudreach

4 January 2022

Atos announced that it has completed the acquisition of Cloudreach, a leading multi-cloud services company specializing in public cloud application development and cloud migration, with strong partnerships with all three hyperscalers. Through this acquisition Atos welcomes over 600 highly skilled cloud professionals to further strengthen its global cloud expertise.

Cloudreach brings extensive cloud-native expertise and rich global partnerships with AWS, GCP and Azure including the recently signed AWS Strategic Collaboration Agreement and the announcement of Cloudreach as the 2021 AWS Consulting Partner of the Year for UKI. Atos will also further strengthen its cloud innovation and automation with the leading Cloud planning and assessment software Cloudamize, which brings new capabilities in cloud migration, to its **Atos OneCloud** practice. **Atos OneCloud** blends cloud advisory consulting, application transformation expertise, prebuilt cloud accelerators, and innovative talents in an end-to-end set of services to help clients navigate their cloud journey securely and with speed.

Completing this acquisition, along with those of *Syntel*, *Maven Wave*, *Edifixio* and most recently *VisualBI* and *AppCentrica*, reinforces the Group's strategic vision of cloud as the foundation of business transformation.

Axiell announces agreement to acquire Infor Library & Information Solutions business and expand global presence

4 January 2022

Axiell, the world's leading software and services provider for the cultural sector, announced an agreement to acquire Infor Library & Information Solutions, a business within Infor, the industry cloud company. The acquisition is expected to close in February.

The Infor Library & Information Solutions business delivers solutions and services to the library sector and serves more than 180 customers in Australia, Belgium, Canada, France, Greece, the Netherlands, Switzerland, the United Kingdom and the United States. The acquisition is driven by Axiell's expansion strategy, focusing and strengthening its offer in the public library and education industry. The acquisition also advances Axiell's global reach and establishes a local presence and industry-specific competence in countries where staff are located. The acquisition accelerates the availability of cloud technology to libraries and schools enabling them to, at their pace, join the community of customers, which work with Axiell's sustainable and digital-first cloud-based library services platform, Quria®.

"I am thrilled that we are bringing the in-depth knowledge and experience from Infor's staff, portfolio of solutions, and customers into Axiell's community of 3,000 library customers, which has been growing since the mid-1980s when we started in this industry," said Joel Sommerfeldt, President and CEO of Axiell Group. "Our experience from previous acquisitions, 21 of them since 2013, will be leveraged to ensure that the integration process is successful. Our focus is on continuing to build strong customer relationships and providing a leading service. The customers will be able to transition to solutions within the Axiell portfolio when they are ready. Our commitment to our customers is to provide the most modern solution for libraries that aspire to innovate and provide relevant services to their patrons."

Jean-François Piat, General Manager of Infor's Library & Information Solutions business, said, "Infor's Library & Information Solutions business will greatly complement Axiell's deep portfolio of culture and knowledge solutions and expanding global footprint. Axiell is in a strong position to grow the business and provide customers with holistic solutions to meet their needs, as they migrate to cloud environments. We also will work closely with the Axiell team to ensure that Infor employees moving to the Axiell organization have continued opportunities to thrive within its business."

Axiell's acquisition of the Infor Library & Information Solutions business establishes an innovation-based path for public libraries to speed up their digital transformation process. Throughout the Covid-19 pandemic, it has become even more apparent how important digital transformation is for public libraries. To remain relevant to modern audiences and to strengthen their position in society in a sustainable way, public libraries and other cultural institutions need to actively explore new ways of working with modern technology. Axiell's lasting commitment to the library industry has seen major developments in recent years, most notably in the cloud-based library services platform, Quria. Quria, as part of Axiell's portfolio of solutions, positions leading public libraries to grow and meet future needs.

Qurial is a cloud platform where all of the library's resources and workflows can be managed together. This includes physical collections, digital resources, library activities, events, e-media and all communication channels. Qurial provides the library with a modern structure for the metadata in its collections. The metadata structure in Qurial supports linked data and is aligned with emerging metadata standards such as FRBR, IFLA-LRM and RDA. The system simplifies staff's internal work and frees up time for initiatives like visitor outreach and reading promotion. The platform also encompasses Qurial

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Discover, for advanced search and presentation of works and events, and Quria School, for a modern and efficient way to bring library resources into the classroom.

No further information about the transaction is disclosed.

Materialise Completes Acquisition of Link3D

4 January 2022

Materialise announces the closing of its acquisition of Link3D Inc.

The closing of the transaction follows Materialise's earlier announcement confirming the exercise of its option to acquire Link3D Inc. on November 15, 2021.

Matterport Completes Acquisition of Enview to Bring Powerful Property Insights and Analytics to Millions of Digital Twins

6 January 2022

Matterport, Inc. ("Matterport"), the leading spatial data company driving the digital transformation of the built world, announced it has completed its acquisition of Enview, Inc. ("Enview"), a pioneer in the scalable, artificial intelligence (AI) for 3D spatial data.

On January 5, 2022, Matterport acquired 100% of the issued and outstanding equity interests in Enview for an aggregate purchase price of 1.59 million shares of Matterport's Class A common stock, par value \$0.0001 per share ("Common Stock") and \$35.5 million in cash. All shares of Common Stock issued in the transaction are subject to a lock-up period expiring 180 days following the closing of the transaction. Enview's 3D AI platform has been deployed at nation-scale to solve mission-critical challenges ranging from critical infrastructure protection for Fortune 500 energy companies, automating property analytics for insurance and disaster recovery applications, and logistics and mobility applications for national security customers. The acquisition of the technology and team will enable Matterport to speed the development of its next-generation spatial data analytics platform that optimizes the operations and management of any physical space, while providing powerful insights and building intelligence.

"For more than a decade Matterport has led the digital transformation of the built world," said RJ Pittman, Matterport's Chairman and Chief Executive Officer. "We turn buildings into data, and for the next decade of growth, our focus centers on unlocking the power of that data for our customers around the world. Enview's powerful spatial data analysis technology fits right into this strategy and readily complements the Matterport platform. Together, we can deliver breakthrough building analysis and data insights to our customers including automated building inspections, AI-powered space planning, and property utilization analysis to deliver operating efficiencies in a completely digital environment," he added.

Founded in San Francisco in 2015, Enview's AI-based automation platform provides a highly extensible framework for rapidly solving complex 3D challenges as part of a digital twin ecosystem. Enview's core technology combines novel AI, purpose built for 3D, with an enterprise platform that enables complex workflows to be automated for nation-scale datasets. Enview's technology performs a variety of 3D spatial operations, including object recognition, feature extraction, feature-based change detection, 2D and 3D measurement and attribution. The company's Explore product is designed to democratize and automate the previously manual task of extracting insights from complex, sensor-fused 2D and 3D data.

Public and private sector organizations currently use Enview's AI platform to virtualize the physical

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world and derive insights, including to protect people and infrastructure, and enhance national security. For example, Enview is the recipient of a Phase III Small Business Innovation Research award from the Commander of the U.S. Pacific Air Forces and a Phase II award from the U.S. Army Rapid Capabilities and Critical Technologies Office for AI-enabled 3D modeling of installations and fusion of indoor/outdoor digital twins for mission planning and facilities management.

“Matterport is the clear leader in the massive market to digitize the world’s built spaces,” said San Gunawardana, Co-Founder and Chief Executive Officer of Enview. “Joining Matterport provides a unique opportunity to pair our leading 3D AI technology with Matterport’s rich spatial data to provide new levels of datafication and insight to customers around the world. We could not have asked for a better company to partner with to extend our work and build a world-class analytics platform for customers to increase the value of every one of the world’s 4 billion buildings.”

Sandvik acquires quality management software provider Dimensional Control Systems

29 December 2021

Sandvik has acquired US-based Dimensional Control Systems (DCS) – a leading global provider of dimensional quality management software and on-site engineering services. DCS’s offering will complement and enhance Sandvik’s existing portfolio within metrology. The company will be reported in the Industrial Metrology division, within business area Sandvik Manufacturing and Machining Solutions.

“This acquisition is in line with our strategic focus to grow in the digital manufacturing space, with special attention on industrial software close to component manufacturing. Dimensional Control System’s offering, in combination with our extensive manufacturing know-how, will enhance Sandvik’s overall digital offering – and specifically our industrial metrology solutions,” says Stefan Widing, President and CEO of Sandvik.

DCS’s software solutions include CAD simulation tools, enabling customers to improve and validate their component design and metrology measurement plan – resulting in reduced scrap, rework, downtime and non-conformance issues. The company is a trusted partner of many major OEM’s and other manufacturers world-wide. It has more than 400 software customers in automotive, aerospace, high-tech electronics, medical devices and industrial machinery manufacturing – with 10,000 licenses in total. Software revenues represent 65% of total sales, of which 40% are recurring revenues.

“Dimensional Control Systems’ software suites have strong underlying growth and will further strengthen our end-to-end metrology solutions by adding three-dimensional analysis and quality assurance capabilities, as well as deep Geometric Dimensioning and Tolerancing expertise. This will significantly improve quality and productivity for our customers, enabling more sustainable manufacturing. I would like to welcome the DCS team to Sandvik,” says Christophe Sut, President of Sandvik Manufacturing Solutions.

Dimensional Control Systems is headquartered in Troy, Michigan, USA, and has a global network of distributors and resellers. In 2020, the company had about 70 employees, revenues of approximately SEK 92 million (USD 10 million) and an EBITA margin neutral to Sandvik Manufacturing and Machining Solutions. DCS’s software business has had a historical annual growth rate of approximately 10 percent – and is expected to grow at similar pace going forward. Impact on Sandvik’s earnings per share will initially be neutral. The parties have agreed not to disclose the purchase price.

Company News

Altair Names CaeTek Channel Partner for the Nordic and Baltic Regions

3 January 2022

Altair, the global leader converging simulation, HPC, and AI, announced that CaeTek has joined Altair's growing channel partner network. CaeTek will offer its customers in the Nordic and Baltic regions all of Altair's simulation, data analytics, and HPC solutions. With a strong focus on simulation, CaeTek covers the entire range of physics, including structures, multiphysics, thermal and fluid simulation, and more, and provides the best solutions to simulate any physical phenomena that a product design process may require.

CaeTek's mission is to empower all engineering companies to design, innovate, and optimize products and processes. In addition to software solutions, the company will also provide local support and training for Altair simulation solutions, so customers receive the best value for their investment.

"We are very happy that CaeTek has joined our growing network of resellers as we scale accessibility of our solutions around the globe," said Peter Dobszai, managing director Nordics, Altair. "Despite its youth, the CaeTek team has more than 35 years of experience in product development and, with its local presence in Finland and Denmark, will deliver best in class knowledge and support for customers in the Nordic and Baltic regions."

"We look forward to a long and successful partnership with Altair. Our customers now have access to high fidelity technology solutions that provide unmatched insights to make faster and more informed decisions," said Mika Ketola, account manager, CaeTek Oy. "With our dedicated team, we will collaborate closer with our mutual customers and ensure optimal conditions for their business every single day."

Altair works with a global network of channel and technology partners.

Altair Signs Comprehensive Multi-Year Agreement with Hewlett Packard Enterprise

6 January 2022

Altair, the global leader converging simulation, HPC, and AI, signed a multi-year agreement with Hewlett Packard Enterprise (HPE) to offer Altair's HPC solution suite for job scheduling and management with HPE's HPC systems to support next-generation supercomputing. The solution suite includes Altair PBS Professional, a fast and powerful workload manager that provides users with robust, scalable technology, capable of handling the most intense jobs while improving productivity, optimizing utilization and efficiency, and simplifying administration for supercomputers of any size.

"Altair and HPE have a strong, nearly 20-year relationship anchored in our shared desire to offer customers top-of-the-line solutions that will drive the future of supercomputing," said Sam Mahalingam, chief technology officer, Altair. "By providing PBS Professional and our other solutions, users will have the ability to tackle the world's most daunting on-premises and cloud challenges without the typical hassle."

With the advent of the exascale era and powerful, specialized HPC systems requiring best-in-class software tools, HPE will offer users access to a complete set of Altair solutions with its next-generation HPC systems to support increasingly complex HPC requirements such as modeling, simulation, machine learning, deep learning, and multiphysics. Additionally, Altair's trusted, global technical expertise and support services will be available to HPE's customers who access the following solutions through the

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Altair and HPE partnership:

- Altair PBS Professional – A world-class job scheduling solution, which meets the needs of any project, from small-throughput tasks to cutting-edge exascale systems such as the Aurora supercomputer at the Argonne Leadership Computing Facility.
- Altair Access – Provides a simple, powerful, and consistent interface for submitting and monitoring jobs on remote clusters, clouds, and other resources, allowing engineers and researchers to focus on core activities and spend less time learning how to run applications and moving data around.
- Altair Grid Engine – A leading distributed resource management system for optimizing workloads and resources in thousands of data centers, improving performance, and boosting productivity and efficiency.
- Altair Control – An easy-to-use web application to monitor and manage cluster configuration and reporting in an HPC environment.

“HPE offers the world’s most comprehensive HPC and AI solutions to solve any data problem, at any scale, with options to adopt our solutions as a cloud service through the HPE GreenLake edge-to-cloud platform,” said Bill Mannel, vice president and general manager, HPC, at HPE. “By continuing our strong and long-standing collaboration with Altair, we are equipping our customers with tools to optimize their resources and focus on unlocking value from their data quickly and efficiently.”

Autodesk Names Rebecca Pearce Chief People Officer

6 January 2022

Autodesk, Inc. announced Rebecca Pearce has been named chief people officer, effective immediately. Pearce will lead all of Autodesk’s human resources functions including strategy, learning and organizational development, talent acquisition, diversity and belonging, employee relations and company culture. In addition, Pearce will be responsible for overseeing Autodesk’s corporate real estate, travel, safety, and security efforts.

Pearce brings more than 20 years of human resources experience and is a proven leader with a global-first mindset, having worked in technology leadership roles in Asia, Europe and North America.

"I'm thrilled to welcome Rebecca to Autodesk's high-performing, dynamic leadership team," said Andrew Anagnost, president and CEO of Autodesk. "She's been an integral part of our leadership team in a year where we made a lot of progress and tackled a lot of change. I'm certain she will continue to play a critical role in driving better business outcomes by empowering our people to achieve the new possible."

"I'm excited to continue my journey at Autodesk and lead the ever-evolving people and places functions," said Rebecca Pearce, chief people officer at Autodesk. "From managing through pandemic-related changes to transforming the employee experience in a tough job market, I'm thrilled to continue to build a community of inspired, diverse talent who have everything they need to thrive and realize their potential."

Pearce holds a Bachelor of Arts in Organizational Behavior and Human Resource Management from Lancaster University and a Master's in Strategic Human Resources Management from the Manchester Metropolitan University. She is also a fellow of the Chartered Institute of Personnel and Development.

Dassault Systèmes and “TEXMiN Foundation” Technology Innovation Hub of IIT (ISM) Dhanbad, collaborate to set up Mining Technology Excellence Centre in India for Sustainable Mining

5 January 2022

Dassault Systèmes has partnered with the “TEXMiN (Technology Innovation in Exploration & Mining) Foundation” –Technology Innovation Hub of IIT (ISM) Dhanbad to set up a world class Centre of Excellence in India which will provide radical technology support and prepare workforce of the future, specific to the mining and allied industries. As a technology and solution partner, Dassault Systèmes will provide experiential learning through its 3DEXPERIENCE platform to support the industrial and startup ecosystem with complete pit-to-port optimization — from geological modelling and mine engineering, to workforce and production scheduling, supply chain optimization, portfolio optimization and plant design.

Today, sustainability, traceability, and safety are paramount for mining organizations. This can only be achieved by accelerating their digital transformation journey and integrating the entire value chain from the mine, to the plant, to the port. This partnership will empower students and professionals with unique learning opportunities, preparing them for this fast-paced industry. The courses and curricula will be designed by combining virtual worlds on the 3DEXPERIENCE® platform which delivers a single source of truth to unlock the capabilities of complete digital transformation and experience the new reality of sustainable mining and metals.

“We are excited to collaborate with Dassault Systèmes for setting up the Mining Technology Excellence Centre and giving our students the opportunity to experience on the job learning environment via virtual simulations. We are committed to train the new generation of innovators, startups, and professionals with future-ready innovation technologies,” said Naresh Soni, CEO of TexMin, and IIT (ISM) Dhanbad. *“We believe that this will be an important milestone for the mining industry in India.”*

“Today, mining companies need to adapt to greater economic uncertainty, climate change, and resource depletion, and are expected to be more sustainable, efficient, safe, and resilient. We are proud to partner with a premier mining institute like IIT (ISM) Dhanbad to bring the technologies of the future to the students, startups and the ecosystem,” shared Deepak NG, Managing Director, India, Dassault Systèmes. *“The mining industry has a critical role to play in supporting mining communities to develop the skills needed to fully participate in the digital economy of the future. Academia and industry collaboration like this will help Indian mining and metal companies in their current reskilling and upskilling programs on Digital Transformation and build the workforce for the future.”*

EON Reality and Senegal’s ITECH Afrique Announce Partnership for Knowledge Metaverse Rollout

4 January 2022

EON Reality, the global leader in Augmented and Virtual Reality-based knowledge and skills transfer for industry and education, announces a new partnership with ITECH Afrique to launch an EON-XR rollout across Senegal.

ITECH Afrique’s mission to bring technology and upskilling to nations like Senegal aligns flawlessly

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with EON Reality's vision of spreading the knowledge metaverse and delivering XR solutions to those who need them most. The partnership will specifically look to create a new knowledge metaverse hub within Senegal while assisting with workforce development and training.

"Local partners like ITECH Afrique are an important part of EON Reality's global network, as they have the reach and connections among populations that we might otherwise struggle to reach," said Dan Lejerskar, Founder of EON Reality. "This partnership is truly an opportunity that can benefit all parties involved and most of all the Senegalese people. It is through alliances like this one that I can see the knowledge metaverse making a major difference in the world and improving the quality of life in nearly every nation."

ITECH Afrique is EON Reality's latest stop in its expansion of the knowledge metaverse throughout the EMEA region. The California-based XR company has seen a massive expansion following the large-scale adoption of remote learning and training that swept the globe during the COVID-19 pandemic. For those able to use their solutions through this partnership, that means an opportunity for "hands-on" experience regardless of location or other logistical restraints — regardless of COVID barriers.

Honeywell Names Chief Operating Officer For Safety And Productivity Solutions Segment

5 January 2022

Honeywell announced that George Koutsaftes, an executive with over 13 years of leadership experience within its Performance Materials and Technologies (PMT) segment, has been named as Chief Operating Officer within its Safety and Productivity Solutions (SPS) segment. Koutsaftes, 52, will become President and Chief Executive Officer of SPS and a Honeywell Executive Officer on April 1. He will succeed John Waldron, who will be appointed to another senior leadership role within Honeywell at that time. Waldron and Koutsaftes will work together closely on the transition over the next three months.

"Since its inception 5½ years ago, Honeywell Safety and Productivity Solutions (SPS) has demonstrated its ability to achieve robust global growth and expansion into new spaces such as warehouse automation and connected worker technologies," said Honeywell Chairman and Chief Executive Officer **Darius Adamczyk**. "John has done a tremendous job in turning SPS into a leading growth engine for our company. Since 2017, SPS has achieved a sales compound annual growth rate of 9%, increasing from about **\$5.6 billion** to about **\$8 billion**. In order for us to continue to develop John as a senior leader, he will be given a key role within the company where customers and other stakeholders will benefit from his leadership. George has a very strong track record of driving growth, margin expansion, and free cash flow, and he will play an essential role in continuing our momentum within SPS."

For the past four years, Koutsaftes has led Advanced Materials, a \$3 billion business unit within Honeywell PMT that provides solutions to the automotive, construction, life science, and semiconductor industries. During his tenure, Advanced Materials substantially expanded its operating margin and free cash flow, and increased revenue from new products by over 50%. Koutsaftes also served for the second half of 2019 as interim Business Development / M&A leader for Honeywell.

Prior to joining Honeywell in 2008, Koutsaftes was a senior-level M&A advisor who was a key player in transactions with over \$7 billion in aggregate value. He worked for Young and Partners LLC, Eureka Capital Markets LLC, and Arthur Andersen Corporate Finance LLP. He joined PMT in 2008 as Director, Mergers and Acquisitions, and was instrumental in the acquisition of Thomas Russell Co., a leading provider of natural gas processing and treating technology and equipment solutions. He also led Procurement and Trade Compliance for PMT before leading the Fluorine Products global business

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enterprise, followed by Advanced Materials. He earned a B.S. in accounting from Marist College and an M.B.A. in finance from Fordham University.

Honeywell SPS provides products, software, and connected solutions that improve productivity, workplace safety, and asset performance for customers around the world. In response to the COVID-19 pandemic, Honeywell SPS rapidly established eight new greenfield production sites worldwide for personal protective equipment, enabling the addition of more than 1 billion units of mask capacity in 2020 to help front-line medical workers battle the virus. At the same time, Honeywell SPS rapidly increased production of sensors and switches used in critical medical equipment, including ventilators and oxygenators.

Procore Appoints Microsoft Executive Erin Chapple to Board of Directors

22 December 2021

Procore Technologies, Inc., a leading provider of construction management software, announced the appointment of Erin Chapple to its Board of Directors.

Chapple serves at Microsoft as the Corporate Vice President of Azure Core, a public cloud computing platform. She has held this position since March 2021 and has been with Microsoft for more than two decades. In her current role, Chapple delivers globally available compute, storage, networking and management services that power the world's workloads from traditional to cloud-native applications.

"We are thrilled to welcome Erin Chapple to Procore's Board of Directors as we continue to strengthen our construction platform and deliver against our strategic roadmap," said Tooey Courtemanche, Procore Founder, President and CEO. "Erin is a strong technology leader with extensive experience in delivering leading-edge solutions that power the world. Her unique insights will be crucial as we continue to enhance our architecture and product strategy, to ultimately connect everyone in construction on our global platform."

"Procore is leading the transformation of construction, one of the oldest, largest, and least digitized industries in the world, through modern product offerings designed to better manage risk and accelerate growth," said Chapple. "I look forward to helping Procore tackle the construction industry's challenges, and contributing to an innovative platform that enables better collaboration."

Prior to serving in her current role, Chapple was the Corporate Vice President of the Operating Systems team that is responsible for the technology at the foundation of all Windows-based products. She joined Microsoft in 1998 as a Program Manager on the Small Business Server, and since then, has contributed to more than 15 operating system releases in various leadership positions. Chapple is also one of the Executive Sponsors of the Microsoft Women's Employee Resource Group, and is known for her advocacy and support of women in technology.

Revolution in Simulation Welcomes Cadence as its Newest Sponsor

6 January 2022

The global simulation industry collaboration and technology alliance *Revolution in Simulation* ("Rev-Sim" at www.rev-sim.org), created to accelerate innovation through the democratization of engineering simulation, announces Cadence Design Systems, Inc. (Nasdaq: CDNS) as its newest participating sponsor and collaborator.

Cadence is a pivotal leader in electronic design, building upon more than 30 years of computational software expertise and decades of computational fluid dynamics (CFD) expertise. With an industry-

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leading meshing approach and a robust host of solver and post-processing capabilities, Cadence CFD provides a comprehensive workflow for applications including propulsion, aerodynamics, hydrodynamics, and combustion.

“The proven business value of engineering simulation, whether it be electromagnetics, solid mechanics, or fluid dynamics, will be fully realized when it’s available at anytime, anywhere, to anyone who has a need for it” said Cadence Sr Group Director, John Chawner. “However, the current state of the art requires a level of expertise to ensure results of the required accuracy. And even for experts, the software can be challenging to use. What’s needed, in a word, is democratization. Because while engineering simulation can be complex, it need not be complicated. Revolution in Simulation has taken up that banner and assembled like-minded organizations to amplify that message and drive a path forward.”

Cadence adds its name to a steadily increasing list of participating sponsors that now includes Aras, ASSESS, BETA CAE, Dassault SolidWorks, EASA, EnginSoft, ESRD, Front End Analytics, Future Facilities, Hexagon/MSC, Kinetic Vision, Maya HTT, Modelon, NAFEMS, nTopology, Ohio Supercomputer Center, OnScale, PASS Suite, Phoenix Integration, PTC, Siemens, SimScale, UberCloud and VCollab.

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

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

Rodolphe Belmer takes office as new Chief Executive Officer of Atos

3 January 2022

Atos is pleased to announce that effective January 1st, 2022, Rodolphe Belmer has assumed office as the Group’s new Chief Executive Officer.

Last October Mr Belmer was coopted as Board Member and nominated by the Atos Board of Directors to lead the Group’s transformation. With a wealth of experience and a solid international network, he is a recognized business leader in Europe, the United States and Asia and can capitalize on a proven track record in transforming and spearheading the rebound of companies disrupted by technology.

Bertrand Meunier, Chairman of the Board of Directors of Atos SE, Chairman of the Nomination and Governance Committee, said: "*On behalf of the Atos Board and all its employees, I am very happy to welcome Rodolphe Belmer and look forward to working closely with him as he leads our Group forward, accelerating our transformation and enabling the return to growth.*"

Rodolphe Belmer, 52 years old, was formerly Chief Executive Officer of satellite operator Eutelsat Communications, a position he held for six years, following a 14-year career at Paris-based television giant Canal Plus where he was appointed CEO in 2003 and served as Group Managing Director from 2012 to 2015. Mr Belmer is also a board member of the world’s leading streaming entertainment service Netflix.

Event News

TRACE SOFTWARE TO SHOWCASE ARCHELIOS™ SUITE AT INTERSOLUTION 2022 – GHENT, BELGIUM.

4 January 2022

Trace Software International will participate to the 10th edition of InterSolution, the international trade fair for solar energy in the Benelux. The exhibition will be held Flanders Expo in Ghent, Belgium, **from 19th to 20th January 2022.**

Photovoltaic energy is booming in the Benelux and companies are increasingly turning to solar solutions. InterSolution 2022 will allow professionals in the solar industry to discuss **the future of the sector with the latest innovations** in solar panels, energy storage, PV design software solutions, ...

For European suppliers, this international B2B forum is **a must in the solar industry** to meet the new trends of the energy sector. It is also a must for Trace Software International, which has more than 30 years of expertise in **electrical and photovoltaic design software for the building and energy sectors.**

Trace Software will be welcoming visitors at the stand 8422

archelios™ Suite PV software: responding to the new trends of solar energy in the Benelux.

With archelios™ Suite, Trace Software offers a unique software solution for professionals who design and maintain photovoltaic installations of all types: **on roofs, ground-mounted plants, connected to the grid or in isolated sites, in self-consumption with or without energy storage.**

The software suite is composed of:

- **archelios™ PRO:** feasibility, design and sizing
- **archelios™ CALC:** calculation, verification and compliance to international standards

archelios™ Suite helps you design the entire photovoltaic installation project, from feasibility study, bankability, 3D design, compliance and calculation notes, to installation. The Suite **is the most complete software solution for photovoltaic design.**

Financial News

Bentley Systems to Announce Fourth Quarter and Full Year 2021 Operating Results and 2022 Financial Outlook

5 January 2022

Bentley Systems, Incorporated, the *infrastructure engineering software* company announced that it will release its fourth quarter and full year 2021 operating results, as well as discuss its 2022 outlook, on March 1, 2022.

In the meantime, the new year has effectuated the previously announced promotions of Nicholas Cumins to Chief Operating Officer, and of Werner Andre to Chief Financial Officer, as David Hollister transitions to Chief Investment Officer.

BSY CEO Greg Bentley said: “We at BSY are excited to have Nicholas, Werner, and David assuming their new leadership roles at this particular environment of accelerated opportunities. The Infrastructure Investment and Jobs Act in the U.S. is representative of burgeoning momentum for infrastructure engineering globally, to advance economic and environmental resilience. Our users, accounts, and

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prospects across the world palpably share our enthusiasm for *going digital*, to better meet these sustained priorities.”

Q4 and Full Year 2021 Operating Results and 2022 Financial Outlook Webcast Details

A live Zoom video webinar of the event can be accessed at 8:15 a.m. EST on March 1, 2022 from the Events & Presentations page on Bentley Systems’ Investor Relations website. A replay and transcript will be available after the conclusion of the live event on Bentley Systems’ Investor Relations website.

Invitation - presentation of Sandvik’s report of the fourth quarter 2021

5 January 2022

Sandvik will publish its fourth quarter results on Thursday, January 20, 2022 at approximately 08:00 AM CET.

A combined webcast and conference call for investors, analysts and financial media will be held at 10:00 AM CET.

The report will be presented in a webcast and conference call by Stefan Widing, President and CEO as well as by Cecilia Felton, acting CFO.

The presentation will be broadcasted live on our website home.sandvik

Dial-in details for the conference call:

SE: +46 8 505 583 57

UK: +44 333 300 9030

US: +1 646 722 4957

From about 09:30 AM CET presentation slides will be available on our website home.sandvik

Implementation Investments

AHAVA Selects Centric PLM™ as Digital Foundation for New Product Introduction

6 January 2022

AHAVA, a leading Israel-based global cosmetics brand has selected Centric Software’s Product Lifecycle Management (PLM) solution to help them flawlessly execute new product introductions, speed time to market and navigate change. 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.

For more than 30 years, AHAVA has been conducting scientific research to transform Dead Sea wonders into skincare. AHAVA is the only company that develops sustainable, high quality, vegan beauty and therapeutic products using the mud and mineral-based compounds from the Dead Sea. They have 14 locations in Israel, a worldwide distribution channel, three branches in the U.S. Germany and China, online sales and are prominent in Duty Free stores around the world.

With a relentless commitment to innovation and quality, AHAVA’s CEO identified opportunities to improve new product introductions, modernize communication and workflow as well as improve data quality to be more agile and competitive in the cosmetics landscape. After carefully examining business processes and legacy systems, AHAVA knew they needed a digital transformation solution.

CIMdata PLM Industry Summary

Asaf Hen, VP IT and Information Systems at AHAVA explains, “Having an out of the box solution was important to us because we wanted to avoid time-consuming customization. Centric PLM is highly configurable and will enable us to structure our skincare product development processes as a fast-growing brand while reducing our time to market.”

Hen was also impressed with the option to run Centric PLM on the cloud or in house and with the sales process. “When we spoke to major cosmetic brands using Centric PLM, like Kiko Milano, we realized that we could learn from others, and we want to do that. This is exactly why we went with Centric Software.”

With 1,300 SKUs to manage, AHAVA will rely on Centric PLM to make product changes at a much faster rate. Changing skincare formulation, adapting to regulations, and adjusting packaging will thus be streamlined with PLM.

“Centric PLM will help us gain full visibility into all product-related data to easily track and implement compliance changes, identify affected products and make quick decisions to comply with regulations.”

AHAVA’s marketing, product development, project management, regulation, packaging, and studio teams will be part of the first phase of the PLM implementation. The response to Centric PLM across the company has been phenomenal. Hen shares, “The management team saw it and they were very impressed. Later on, I started to give private presentations to departments to show them what PLM could deliver, and they were amazed!”

Chris Groves, President and CEO of Centric Software says, “We are thrilled that AHAVA has chosen us as a partner in their digital transformation journey. We are proud to partner with a leader in the cosmetics industry.”

Ansys and Innoviz Technologies Enable Autonomous Driving Revolution with Next-Gen LiDAR Design

4 January 2022

Innoviz Technologies is using Ansys simulation solutions to successfully drive the technology behind their unique automotive-grade LiDAR sensor and achieve autonomy for their customers—while reducing development time and costs. Ansys enables Innoviz Technologies to meet their customers’ objectives for durability, reliability, and affordability in a LiDAR design that is seamlessly integrable into Level 3-5 autonomous vehicles.

A study from the U.S. Department of Transportation’s National Highway Traffic Safety Administration found the majority of serious crashes are caused by human error, a statistic that is incentivizing autonomous vehicle development to improve safety on the road. Autonomous vehicles depend on the sensing capability of various components, including LiDARs, radars and cameras. LiDAR delivers the high-resolution, long-range 3D image perception needed to safely guide vehicle movement. The challenge for automotive manufacturers is that available LiDARs are not close to meeting industry standards for performance, size, reliability, and cost perception. Packaging these very complex optical sensor technologies tied to numerous systems presents challenges in both their production and operation.

The success of the team depended on simulation and testing of various aspects of LiDAR design and optics. Drawing on the power of Ansys multiphysics capabilities, Innoviz relied on Ansys® Mechanical™, Ansys® Fluent®, Zemax and Ansys® Maxwell® simulation software, working seamlessly together to successfully address LiDAR system complexity. Through extensive simulation and testing, an extreme integration of components into a single chip was accomplished requiring

minimal design iterations and enabling a more compact LiDAR system. This high-performance, reliable LiDAR solution meets the necessary automotive performance characteristics and size requirements manufacturers are looking for at a much lower price point.

“We use many types of simulations in the Ansys ecosystem across the entire design chain of our product,” said Oren Buskila, chief R&D officer and co-founder at Innoviz. “We rely on Ansys capabilities to run structural analysis to understand the stresses and temperature variations of our chips. We also use Ansys for dynamic simulation to understand vibration characteristics, and thermal simulation to see if we can dissipate the amount of power from the main components inside, like the laser. Ansys provides excellent simulation software and we value their experience in the automotive space to help us solve our biggest design challenges.”

“Our vast simulation and growing multiphysics capabilities support exploration and discovery in advanced autonomous technologies,” said Shane Emswiler, senior vice president of products at Ansys. “More complex optical applications like LiDARs require a higher degree of predictive accuracy in their execution. Our tools interface well, both inside and outside our product portfolio, to help our customers quickly move through design cycles with confidence. Simulation software is a game changer in the development of a new generation of more complex LiDAR systems that will accelerate autonomous vehicle adoption.”

Ansys Helps Drive Electric Autonomous Vehicle Safety for EasyMile

5 January 2022

EasyMile, an all-electric autonomous technology supplier headquartered in Toulouse, France looked to Ansys software for a single-source, turnkey solution to demonstrate the safety of their driverless vehicles. With CADFEM France, Ansys enabled engineers to work from a single model for all safety activities across platforms—significantly shortening development cycles, speeding time to market and reducing operational costs for the company’s driverless shuttle and tow tractor solutions.

Both electric vehicles (EVs) operate at level 4 (L4)—meaning they are fully autonomous until a system failure is detected. EasyMile deployed Ansys software to conduct functional safety analysis of infrastructure and connected architecture for both vehicles.

Autonomous vehicle (AV) function depends on a high level of information to operate safely. The real-time data-processing supporting AV functionality is driven by input from a complex system of lidars, radars, cameras, internet of things (IoT) sensors, GPS and navigation software, all working together to give a 360-degree perspective of vehicle surroundings. To demonstrate safety at this level is difficult and requires clearly defined methods and tools for managing the complex architecture of these nonclassical systems.

Using Ansys software, EasyMile identified a single solution with all the tools needed to analyze their very complex AV system architecture. With Ansys’ help, EasyMile established clear guidelines for safety analysis, along with the unique templates and supporting documentation needed to successfully demonstrate the safety of their AV solutions for customers and various government regulatory bodies.

“It has been difficult in the past to demonstrate the safety of our products to clients,” says Romain Dupont, R&D for EasyMile. “Ansys medini analyze really helps us to streamline the process and bring it all together in a way that our clients can understand. Together with Ansys’ support, we’re helping shape future standards for autonomous vehicle safety.”

medini analyze is a software toolset supporting safety analysis for electronically-controlled safety related functions. It allows for the consistent and efficient application of industry guidelines specific to

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autonomous vehicle applications, helping to eliminate inconsistencies during analysis to accelerate certification.

“Autonomous vehicle technology is developing at a lightning-fast pace,” says Shane Emswiler, senior vice president of products at Ansys. “This challenges manufacturers and OEMs to reliably test and demonstrate the viability of these incredibly complex systems. We’re continuously evolving medini analyze to meet ever-changing safety criteria in support of successful customer deployments.”

Clark County, Nevada Partners with NTT to Implement Smart Park Initiatives

6 January 2022

Clark County, Nevada and NTT (NTT Corporation, NTT Ltd., NTT DATA Services) have agreed to deploy NTT Smart Solutions for smart park initiatives.

The agreement will start with a pilot project at Sunset Park where two specific use cases will be implemented: park occupancy and notification, and vehicle counting. By leveraging optical sensors, NTT Smart Solutions will help count and predict utilization of the park and its facilities, and vehicle volume in and out of specific roads within the park and near parking lots.

A web-based management dashboard will present real-time visualizations and predictive analysis in a singular pane of view to optimize and improve operational awareness and responsiveness within the park premises.

NTT Smart Solutions are designed to calibrate and curate data to reveal trends, discover powerful insights and generate predictive analytics. By deploying NTT Smart Solutions in this smart park occupancy pilot, Clark County will be able to derive actionable insights for key stakeholders to drive better decisions and outcomes and set forth a foundation for future smart park initiatives.

Clark County Commission Vice Chairman Jim Gibson, whose district includes the park, said: “Sunset Park is one our largest and most popular parks in the Las Vegas Valley. The data from this project will help us to better understand how the park is utilized so that we can respond with solutions as necessary -- not only at Sunset Park but at other recreational facilities across the County where we may deploy this technology.”

Bob Leek, Deputy Chief Information Officer, Clark County said: “We are always on the lookout for innovative technologies able to increase the safety and security of our citizens while also improving our internal operations. We believe NTT Smart Solutions will deliver results in both these areas.”

NTT Smart Solutions were initially conceived to enhance public safety and improve urban mobility in 2018. The solutions were introduced in Southern Nevada and NTT’s continued expansion in this region is a cornerstone to the growth of these solutions.

Akira Shimada, Senior Executive Vice President, NTT said, “This is a very important milestone for NTT. At the end of 2018, NTT reached an agreement to advance and accelerate smart technologies across Southern Nevada. Today, we are pleased to demonstrate that we continue our partnership and our efforts to support Clark County and the region of Southern Nevada to become leaders for smart project in the country.”

Since 2018, NTT Smart Solutions have also been implemented by other clients in several industries. This includes the University of California, Berkeley for curb management, INDYCAR for improved fan experience, Chicago's Navy Pier for increased situational awareness, transit agencies for passenger safety and NZCIS for improved training experience.

Globally, NTT is planning to continue to move forward in developing its Smart Solutions capabilities

and address new challenges facing organizations worldwide while also contributing to local economic development.

EON Reality and AMTRON Develop Partnership for Knowledge Metaverse Hub

6 January 2022

EON Reality, the global leader in Augmented and Virtual Reality-based knowledge and skills transfer for industry and education, announces a new development in its partnership with AMTRON in India to bring a massive EON-XR delivery and knowledge metaverse hub to the area.

After initially announcing the partnership in March of 2020, the latest update sees EON Reality and AMTRON bring the first knowledge metaverse hub — along with a huge EON-XR rollout targeting 200 schools and 40,000 students — to India. This new collaboration will allow users to learn, train, perform and share using cutting-edge XR technology, while also providing digital transformation opportunities for local, regional and national governments. Through these tools, EON Reality and AMTRON will be able to upskill workers, improve academic performance, and increase the quality of life for those in the Indian state of Assam and beyond.

The Assam Electronics Development Corporation Ltd. — better known as AMTRON — is a key bridge between the government and industrial sectors in Assam and a major piece of India's technological initiative known as Digital India. By introducing EON-XR and the knowledge metaverse, AMTRON will be able to immediately raise the region's standings on an international stage, join more than 70 other nations within EON Reality's global network, and become a promising contributor to the knowledge metaverse.

“Partnering with AMTRON has been a great experience so far, and I'm looking forward to seeing how the knowledge metaverse and EON-XR can help the good people of India,” said Dan Lejerskar, Founder of EON Reality. “I believe this is the type of collaboration that can make a huge impact on a large number of lives, and that is exactly what the knowledge metaverse is all about. I'm very excited to further develop our relationship with AMTRON to benefit all of India and our global network.”

In addition to the typical workforce training and academic learning provided by EON-XR, the new knowledge metaverse hub will provide numerous possibilities for the area that didn't previously exist. That means creating and distributing digital territory and assets via NFT technology, assisting local startups and entrepreneurs, improving the health, safety, security, and daily lives of as many citizens as possible, and strengthening the regional culture and community through digitization.

As EON Reality's first partner of this size in India, AMTRON and its partners will not only be important users of EON-XR, but also valuable contributors to EON Reality's global network and the knowledge metaverse. In recent months, EON Reality has seen over 70 academic institutions, governments, and private companies become creators and curators for the growing knowledge metaverse — each creating and sharing experiences based on their own areas of expertise. The long-term hope is that teachers, students, entrepreneurs, and other citizens within Assam will provide their own additions once they've adapted to the technology.

“We are delighted to launch the metaverse academy along with delivering experiential learning for nearly 200 schools in the state of Assam,” said Mr. MK Yadav, Managing Director of AMTRON. “The state-of-the-art facility located at Tech City will create high-skill jobs across North East India. The Digital India initiative will also be incorporated in this partnership with EON Reality. It will empower the youth to develop quality XR experiences for the world with the use of EON-XR.”

The Tech City location mentioned by Yadav is being developed as a one-of-a-kind IT and technology

hub in India, drawing interest from many national and global entrepreneurs who are keen to set up various manufacturing facilities and educational and training opportunities. It is expected to boost the IT industry of the state of Assam and bring in employment opportunities for the area's youth.

Gémo Gears Up for Business Transformation with Centric PLM™

4 January 2022

Gémo, the French clothing, footwear and accessories brand for the whole family, has selected Centric Software®'s Product Lifecycle Management (PLM) solution to support their business transformation. Centric Software provides the most innovative enterprise solutions to plan, design, develop, source and sell products such as apparel, footwear, sporting goods, furniture, home décor, cosmetics, food & beverage and luxury to achieve strategic and operational digital transformation goals.

Founded in 1991, the Gémo brand is part of the Eram Group, created by the Biotteau family and still anchored in their original home of Maine-et-Loire. Xavier Biotteau, President of the Eram Group and creator of Gémo, is the third generation of the family to operate the business. As Gémo embarks on its thirtieth year, the business has launched a group strategy of "Prêt-à-Vivre" (Ready to live) affirming their ethos of simplifying everyday life for families by offering a wide range of quality shoes, clothing and accessories under the same roof at affordable prices. With a turnover of approximately 840 million euros, Gémo has a network of 440 stores and a team of 4,000 employees. Their suppliers are mainly located in South-East Asia, India and China, with a smaller number located in France and near the Mediterranean Basin. In 2021, Gémo ranked 7th on the Human Equipment Market for textiles, footwear and accessories.

Gémo intends to maintain their position as a leader in this sector, with a goal of opening 100 stores internationally by 2025 and continue their growth in Sub-Saharan Africa.

To achieve their international ambitions, expand omnichannel distribution and further develop B2B collaboration, Gémo launched an ambitious digital transformation strategy focused on upgrading their technology solutions in 2019.

The adoption of Centric PLM is at the heart of this strategy, which also includes the deployment of an integrated ERP (enterprise resource management) system. Gémo expects Centric PLM to simplify and accelerate product design, increase the control and monitoring of quality and factory audits, and equip suppliers and field offices. Centric PLM will also allow the replacement of an in-house legacy PDM system.

"In 2019, we committed to a transformation plan for Gémo's core systems including sales management, collection construction, product development, inventory management and more," explains Joanne Moisan, Business Project Manager with Gémo. "We invested in replacing aging systems, which have reached the end of their lifecycle. Unlike other solutions, Centric PLM covers an extremely broad spectrum of functionality, from product development to quality management and supplier communication. By sharing the same platform, the objective is to speak the same language with our partners and our purchasing offices."

"We are pleased to announce that Gémo has selected Centric as a partner," says Chris Groves, President and CEO of Centric Software. "Gémo is an essential brand in the clothing and footwear sector and we are honored to support their business transformation with Centric PLM."

Portwest Dresses for Success with Infor

5 January 2022

Infor, the industry cloud company, announced that workwear manufacturer and distributor Portwest has deployed Infor CloudSuite Fashion in a multi-tenant cloud deployment, running on Amazon Web Services. This upgrade will help Portwest create standardised processes throughout facilities in the United Kingdom, USA, Ireland, Poland, Dubai, Australia, Myanmar, China, Bangladesh, Italy, and Albania.

Portwest has grown consistently at 24% per annum over the past two years and currently manufactures and distributes more than 1,800 products and 35,000 SKUs. The upgrade is the latest stage in an ongoing standardisation programme to help sustain that growth.

This programme most recently saw Portwest deploy the workflow and electronic data interchange (EDI) integration capabilities of Infor CloudSuite to improve collaboration with suppliers and customers. Portwest has also taken advantage of the Infor CloudSuite capabilities for documents such as pick sheets, invoices, order confirmation, statements, and dispatch notes. This has enabled Portwest to retire inefficient, legacy document management technologies.

The enhanced application will now enable Portwest to use internal invoicing to track the movement of goods more accurately and efficiently within the group, as well as form a template for the rapid integration of acquisitions.

Plans for 2022 include integrating factories in Bangladesh and Myanmar, plus onboarding an Albanian facility that is part of a recent Italian acquisition. Once a standard template is in place across these facilities, Portwest plans to deploy integrated business intelligence and analytics and begin the full automation of a UK warehouse.

“Our use of Infor has evolved as we have grown, from Infor M3 ERP on-premises through to M3 single-tenant cloud, and now the multi-tenant Infor CloudSuite because it has been a path of ever-increasing returns,” explained Paul Forry, head of information technology at Portwest. “This move to multi-tenant Infor CloudSuite also helps us address issues in the movement of our stock and forms a foundation for plans in the coming months to ensure standardized processes in our acquisition targets. We have aggressive plans to become a £1 billion company by 2025, and acquisitions and increasing our salesforce are going to be the main engines of that growth. We are also undertaking a deep examination of our customer profiles and looking at how we can diversify to sustain our double-digit growth. Infor CloudSuite will be at the heart of all of these initiatives.”

“Portwest is a textbook example of how moving from ERP to multi-tenant Infor CloudSuite can enable, accelerate and sustain substantial growth,” said Anwen Robinson, Infor general manager and senior vice-president for UK & Ireland. “From establishing improved processes to reducing costs by retiring legacy technology, and accelerating the onboarding of acquisitions, Portwest has demonstrated repeatedly why it is not only beneficial to harness the power of cloud technology, but that to drive growth, it is a necessity.”

PurCotton Implements Digital Transformation “Three-Step Strategy” with Centric PLM™

28 December 2021

PurCotton, the cotton products company, has successfully implemented Centric Software’s Product Lifecycle Management (PLM) solution, and Centric is celebrating with the release of a success story.

CIMdata PLM Industry Summary

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.

Having inherited 30 years of expertise in the medical field from parent company Winner Medical, PurCotton is involved in the innovative research and development of cotton products across seven categories, including cleaning care, pregnancy care, feminine care, clothing and home and living.

In 2019, PurCotton launched a “three-step strategy” for digital transformation, starting with central commodity operations and integrating with front-end product development management and back-end supply chain management. Seeking a market-oriented, collaborative, efficient and open product development management platform, PurCotton thoroughly researched Centric’s reputation, professionalism and product quality before implementing Centric PLM.

“Our R&D must maintain close ties with consumers so as to shorten our market response and product launch cycle,” says Mr. Li Jianquan, General Manager of PurCotton. “PLM is a vital tool to shorten the distance between concept and consumer.”

“The PLM project is an upgrade and optimization of PurCotton’s textile business, enabling us to review the entire process of product research and development, as well as achieve five process reforms and data aggregation from eight product databases,” he continues. “Through the active use of PLM, I believe that launch cycles of new products will be further shortened in the near future, and we will be better equipped to meet the needs of consumers.”

Today, teams at PurCotton are no longer tied down by cumbersome document management. In the future, they will spend more time and energy responding to market demand and working on product innovation.

As Ms. Zheng Lin from the Commodity Planning Department of PurCotton concludes, “The implementation of Centric PLM saves us time and material costs, and allows us to continuously amass experience, thus realizing data aggregation throughout the value chain to form PurCotton’s brand DNA.”

“We are delighted that PurCotton has boosted collaboration, efficiency and innovation with Centric PLM,” says Chris Groves, President and CEO of Centric Software. “Centric is proud to provide a strong foundation for PurCotton’s digital transformation strategy and future business growth.”

Seven Feathers Casino Resort Partners with Infor Hospitality

6 January 2022

Infor, the industry cloud company, announced that Seven Feathers Casino Resort has selected Infor Hospitality Management Solution (HMS) for its property management system (PMS) and Infor Sales & Catering, a fully integrated, event-management software solution in the cloud. Seven Feathers, one of the fastest-growing destination resorts in the Pacific Northwest region, has decided to standardize its technology approach to help streamline operations and enhance the overall guest experience at the property.

After a thorough search of HMS vendors, Infor was selected because of its customer support, industry-specific advanced functionality, and intuitive, innovative, and user-friendly platform. “As our property continues to grow and evolve, we knew it was necessary to reevaluate the systems we currently had in place and make changes to help support future growth and deliver an even better guest experience,” said Rod Debban, director of hotel operations, Seven Feathers Casino Resort in Canyonville, Oregon.

“Travel and leisure is growing at a rapid pace, and we knew that this was a critical time to partner with Infor to modernize operations with innovative, scalable technology that can help support our future growth.”

Infor HMS is a fully integrated property management system with flexibility, security, efficiency and mobile capabilities designed to help organizations like Seven Feathers Casino Resort deliver a great guest experience. The solution utilizes mobile applications for guest check-in and housekeeping, automated and customizable reporting capabilities, and optional offerings related to revenue management, point-of-sale (POS) and business intelligence (BI) tools to help support a range of unique needs for hospitality organizations. In addition, Infor Sales & Catering offers cloud-based event catering and event management software that can automate the entire booking process from initial inquiry to the final invoice and is designed around the lifecycle stages of an event.

“The hospitality industry is making a strong comeback right now, and having a modern technology system in place is going to be the key to a brand’s success in the coming months and years,” said Jason Floyd, general manager, Infor Hospitality. “Infor’s new partnership with Seven Feathers Casino Resort can help provide the functionality, integration, and customer support needed to deliver more memorable services for today’s modern guest.”

Product News

BETA CAE Systems announces the release of the v22.1.0 of its software suite

27 December 2021

About this release

Following the introduction of v22.x.x series, v22.1.0 comes as a culmination of our efforts to constantly provide you with new tools and features that will accelerate your processes, while same time, eliminate error-prone factors throughout your simulation workflows.

Loyal to our commitment to fulfill your requests and requirements, the new version brings forward brand new solutions to long-awaited problems, and enhances capabilities, execution speed, and performance.

Do not miss:

- The major repackaging and upgrade of KOMVOS, as a direct DM-process executor, embedding SPDRM-driven related actions.
- The evident boost in the Graphics performance of ANSA & META.
- The extended VR & AR capabilities of our software, towards a more collaborative perspective.
- The accelerated solution time in EPILYSIS.
- The plethora of new toolbars in META, in areas such as NVH and Crash & Safety

Release Highlights

Evolutionary upgrade with KOMVOS

KOMVOS has undergone a major repackaging of its feature list, as well as licensing offer, packing as standard functionality the 'Subsystem Build' and 'Load Case Composer' processes (formerly offered as scripting extensions) .

As for its general features, a revamped main toolbar and database workspace, offers access to primary workspaces and facilitating data browsing. These, together with a data tree focus, provide a handy

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alternative to filters for the isolation of particular simulation data.

Regarding results viewing, following the META concept, users can now directly connect to ASAM ODS-compliant test result servers to browse and view measurement data.

Moreover, a main assets of the new KOMVOS v22.1.0, is the direct connection to SPDRM. This offers the ability to browse and execute SPDRM Process Templates and monitor the progress of all processes, providing more SPDRM data views in the info tabs in combination with SPDRM Generic and DM Item-specific script actions.

Closing with Machine Learning in KOMVOS, noteworthy enhancements have taken place in 2D and 3D results training and prediction, as well as in incremental learning, where Design Variable based predictors with 3D results can be updated using innovative incremental learning methods.

Elevating User Experience in ANSA

The core of model build has been enriched with numerous handy implementations. In specific, transformed, and renumbered Base Modules are re-used across Simulation Models and Loadcases and a new build action allows Loadcase Headers to generate their FE-representation before output. On top of that, following the unification concept of DM BETA products, users can now start building a Next Iteration directly through the DM Browser in META or KOMVOS.

Isogeometric Analysis (IGA) has undergone several enhancements. Not only surfaces can be morphed though Ortho Boxes and IGA workflows have been uplifted, thanks to the support of smooth splines using Bezier extraction.

In the Crash & Safety area, apart from the continuous support of EuroNCAP protocols (v9.0, for instance, in current version), Seatbelt Tool has been upgraded with effortless seatbelt passing through 3D slipping ring and buckle.

New tools and features have been introduced in the NVH area as well. As representative highlights, the new connector type Hydro Mount minimizes complexity of Hydro Mount modeling, whereas the introduction of Gauge Optimization from within NVH Console allows the creation of a ready-to-run SOL200 solver file through a simplified interface.

Speaking of Optimization, new options in this field, in compliance with the new DOE algorithms, elevate optimization experience in the new version.

Virtual Reality is constantly gaining ground in ANSA, embedding Collaboration aspects as well. Some highlights of the latest implementations are the introduction of sliding of morph boxes, as well as the real time perception and interpretation of a scene with physical objects in AR.

Accelerated Performance in EPILYSIS

Apart from a significantly decreased solution time thanks to the support of Message Passing Interface (MPI), a noteworthy speed-up has also taken place in the output of large HDF5 files, as well as in the Data recovery of ESE, EKE and DISPLACEMENT results for a large number of modes.

Empowering META with a plethora of new features

Model handling and animation have been further accelerated in various cases such as for models with a combination of shells, solids and line elements, where a performance increase of up to x6.8 times can be experienced while keeping the GPU memory consumption low (NVIDIA GPUs).

Similarly to ANSA, a combination of VR and AR developments, are now complied with Collaboration implementations in areas such as Acoustic Analysis, where the user can actually hear the noise in a vehicle cabin based on CAE calculated results or test results.

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Brand new toolbars have been added, such as for Grid/Panel/Modal Participation Analysis, to run What-If scenarios and spot candidate areas for a CAE-driven design improvement. In conjunction with new entries in the NVH field, such as the Hydro Mount connector in FRF Assembly or the Stress / Strain results in Transient Response, these toolbars elevate NVH capabilities in META.

Body stiffness evaluation can benefit a lot by the new methodology "Opening Distortion Fingerprint" which can be seamlessly applied through the respective new toolbar, using data deriving either from measurements or from dynamic FE simulations, as well as from Multi-Body Dynamics simulations.

Toolbars are always a highlight in the Crash & Safety area as well in this version:

The Deployable Bonnet Systems Assessment toolbar is a new tool for the automatic assessment of Deployable Bonnet Systems for Pedestrian protection according to Euro NCAP, whereas the FMVSS 226 Toolbar allows the evaluation and reporting of FMVSS 226 Ejection Mitigation results.

New Documentation

New Documentation in ANSA

Tutorials

- Topo Mesh: Map Block
- Decks: ANSA - META for TAITherm

New Documentation in META

User Guides

- Toolbar User Guides: Opening Distortion Fingerprint
- Crash – Safety: FMVSS-226 Toolbar
- Crash – Safety: Deployable Bonnet Systems Assessment
- NVH: Participation Analysis

Compatibility and Supported Platforms

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

META Project files saved from version 22.1.0 are compatible and can be opened by META version 16.0.0 or later.

Support for Mac OS has been discontinued.

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

Mastercam Multiaxis Machining Improves Productivity

4 January 2022

Multiaxis machining can dramatically increase a shop's competitiveness. Mastercam Multiaxis is an add-on for Mastercam Mill 3D, Router 3D, Mill-Turn, and Mastercam for SOLIDWORKS®. It improves productivity with simultaneous 4- and 5-axis machining capability for Mastercam. Mastercam Multiaxis offers a wide range of multiaxis machining strategies, both basic and advanced. These toolpaths are also useful for advanced control of 3-axis machines.

The new **Multiaxis Unified toolpath** allows you to select multiple pieces of input geometry to generate the toolpath pattern. Using those geometry choices, the toolpath picks the best algorithm to calculate the path. This single toolpath gives you access to all the surface-based toolpaths, as well as the geodesic

toolpath options, in a single interface.

New **Deburr toolpath** enhancements include a new option, *Number of cuts along edges*, which allows users to add multiple cuts to the Deburr toolpath, rounding or flattening edges, to create a quality edge on deburred parts. Additionally, the new *Tilt Range* options allow you to limit tilt when machining type is set to 5-axis (simultaneous) or 3+2 axis.

Maintaining climb and conventional machining is critical for surface finish and tool life. **Controlling Climb and Conventional Cutting** now provides control of climb or conventional cutting while working with surfaces that may require using both sides of a tool. It was previously impossible to maintain this while cutting a curved shape that would require the use of both sides of the tool.

Swarf Milling toolpath enhancements include the *Drop tool to floor* option which controls whether Mastercam will drop the toolpath down to a floor or retract to the bottom of swarf surfaces. The new *Sorting Spiral Multi Cuts* option allows multiple slices to be output as a spiral instead of single slices, providing a better finish across the part.

Rotary Advanced toolpath enhancements include the *Axis offset* option which allows you to shift the tool off-center to maintain a better contact point, which extends tool life and improves the machining quality. The new *Smoothing* options round sharp corners using a percent of the stepover.

Mastercam continues to expand the critical machine simulation needed for optimal multiaxis programming with **Mastercam Simulator** which includes the new *Smart Measure* feature that allows you to measure distances quickly and accurately in the graphics window during simulation. Simulator now processes standard 3-axis and 5-axis operations faster when backplotting, verifying, or simulating, and now lists all collisions, proximity alerts, and axis overruns in the new Report pane.

- Additional enhancements to Mastercam Multiaxis include:
- Maintaining a single tool axis orientation with Accelerated Finishing tools, providing optimal tool axis control to minimize or eliminate extra multiaxis movement.
- The new *Point tool to rotary axis* option allows you to rotate a toolpath around an offset point instead of the toolpath being fixed to the axis itself, which leads to a better tool contact point.
- The new Automatic arc lead-in type creates automatic arcs in locations where it can be difficult to determine the correct arc to fit and makes it easier to add arcs to linking moves.
- New *Apply filtering for conversion* generates a more efficient toolpath by filtering incoming toolpaths to reduce size and noise.

Quality Management Software Solutions: What's New in Teamcenter Quality 6.0

4 January 2021

On January 4, Alessandro Cereseto of Siemens Digital Industries Software posted to the Teamcenter blog about the newest update to Teamcenter Quality. To learn about the changes to FMEA, Quality Processes, Collaboration, and other aspects of the software please check out the full blog post.

<https://blogs.sw.siemens.com/teamcenter/quality-management-software-solutions-whats-new-in-teamcenter-quality-6-0/>

What's New in OpenBOM December, 24th 2021 Update

30 December 2021

Oleg Shilovitsky posted the final update of 2021 for OpenBOM on the OpenBOM blog. The update includes updates to Change Management and Change Order, Item Change Requests, Performance, the Solidworks Add-in, and the beta OpenBOM Drive Document Dashboard. To learn about these new features please go to the OpenBOM blog. <https://www.openbom.com/blog/whats-new-in-openbom-december-24th-2021-update>

Xometry Integrates Big Blue Saw's Software, Data For Laser & Waterjet Sheet Cutting

6 January 2022

Xometry announced that it has fully integrated Big Blue Saw's proprietary software and data into its online marketplace, which connects enterprise buyers with manufacturing capacity worldwide. The data from Big Blue Saw enables Xometry to deliver instant quotes with competitive prices and short lead times for laser- and waterjet sheet-cutting services.

Xometry acquired Big Blue Saw in November and began the process of integrating tens of millions of data points. The data enhances Xometry's existing machine learning and AI capabilities, allowing Xometry to deliver significantly expanded offerings. Big Blue Saw has amassed nearly two decades of experience developing automation and algorithms for instant quotes for laser- and waterjet sheet-cutting.

"Our cutting-edge AI-driven marketplace now includes Big Blue Saw's massive dataset and technical expertise, which allows us to offer these enhanced services," said Randy Altschuler, CEO of Xometry. "Our engine gets smarter with each interaction, giving enterprise buyers the confidence to order custom complex parts so they can create truly transformational products that benefit nearly every conceivable industry."

Xometry's sheet cutting capabilities include hundreds of materials including metals, plastics, composites, foams, paneling, rubber and wood.

Xometry is committed to accelerating the digital transformation of the manufacturing industry. The company's rapidly growing digital marketplace connects enterprise buyers across industries such as aerospace, autonomous and electric vehicles, clean energy, consumer products, defense, industrial, robotics and more with sellers of custom-manufactured parts worldwide.

Xometry's marketplace delivers real-time access to global manufacturing capacity and demand, providing industry-leading CNC machining, 3D printing, injection molding and now laser- and waterjet sheet-cutting services.

ZWCAD 2022 SP2 Takes Speed, Friendliness, and Your Design to the Next Level

5 January 2022

ZWSOFT, a reliable provider of all-in-one CAx solutions, announced the availability of ZWCAD 2022 SP2. As the latest version of its flagship 2D CAD solution, its speed and friendliness have been elevated to the next level.

Efficient Without Compromising Stability

In this SP2 version, the cursor hovers over the entities so smoothly that you will not experience unexpected pauses while designing. Besides, with high-quality output guaranteed, geometric hidden

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shade plotting in ZWCAD 2022 SP2 costs 87% of the time needed in other CAD software on average, and only 38% at its best.

While being faster, ZWCAD 2022 SP2 is more stable, especially in terms of typical operations such as zooming in, switching between layouts, and copying all entities.

Plotting Is Even Smarter

In addition to helping you plot drawings in batches, Smart Plot is enhanced with two major new functions. One allows you to customize output file names with one or multiple variables of a specified field. This means you can efficiently set up all file names before plotting, instead of manually changing them one by one afterwards.

The other enables automatic paper size recognition for both virtual and physical printers. By matching the block name with the paper size setting, you can plot different sizes of paper correspondingly at once.

New Data Types for Tables

There are 4 new data types (“Currency”, “Date”, “Percentage”, and “Point”) for you to quickly specify table cells. You can easily set the table cell format via the toolbar, Properties panel, right-click menu, etc.

Moreover, data format recognition and conversion are not only automatic, but also feasible for tables created by DATALINK or DATAEXTRACTION.

More Accurate Display of Maps with the ArcGIS Module

The new ArcGIS module comes in handy when you need to minimize map distortions and get a more accurate display for particular tasks. You are now able to insert a map based on a self-assigned projected coordinate system in three ways (Assign Coordinate System, Add Data, and Add Data by URL), check and manage feature layers, and convert coordinate systems.

Together with the abovementioned new features, there are many widely anticipated enhancements that make ZWCAD 2022 SP2 faster and friendlier. You may convert voice messages generated by Smart Voice to texts, execute a command temporarily while another is running under dynamic input, explode joint splines, get better display and plot effects of hidden objects, etc.

As a platform CAD solution, ZWCAD focuses on the enhancement of its core capabilities, such as Smart Plot, Smart Voice, Associative Array, as well as the support of more industrial applications like adding the ArcGIS Module, IFC Import, and Flatshot.