

Contents

<i>CIMdata News</i>	2
Agenda Topics Announced for PLM Road Map & PDT 2020	2
CIMdata Publishes eBook: “Simple is Hard—But When You Get It Right, You Can Change the World”	3
CIMdata to Present at the Life Sciences PLM Innovation Forum Virtual Experience	3
<i>Acquisitions</i>	4
Accenture Makes Strategic Investment in InCountry	4
Infosys to Acquire Product Design and Development firm, Kaleidoscope Innovation	5
<i>Company News</i>	6
Altair Extends Strategic OEM Agreement with Hewlett Packard Enterprise (HPE) to Optimize High Performance Computing	6
Altium Empowering the New Generation of Electronics Designers	6
Ansys Honored as Gold Stevie® Award Winner in 2020 Stevie Awards for Great Employers	7
Atos helps researchers and students to experiment with quantum algorithms by offering free, universal access to myQLM	8
Bentley Institute Press Announces Availability of Infrastructure Digital Twins: A Leadership Short Course – Volume 1: Getting to Know iTwins	9
CONTACT Software expands its partner network in North America and India	10
HCL CAMWORKS Announces Partnership With CIMTECHNOLOGY	11
Mentor achieves certifications for TSMC leading-edge 3nm process technology	11
SAP Boosts Industry-Wide Innovation with Startup Partnerships	12
Siemens and eQ Technologic deliver Data-as-a-Service across Xcelerator Portfolio	13
Wipro Study Finds 95% Business Leaders Consider AI Critical, Yet Only 17% Leverage it Across the Organization	14
<i>Events</i>	15
Altair to Virtually Present at the Deutsche Bank Technology Conference	15
Fujitsu to Reimagine the Future at Fujitsu ActivateNow 2020 Global Digital Experience	16
<i>Financial News</i>	16
Capgemini: First half performance reflects the Group’s resilience	16
<i>Implementation Investments</i>	17
ABB Information Systems selects TCS for Hosting Infrastructure and Cloud Service Management	17
Heide Refinery Accelerates its Digital Journey with Aspen Technology Software	17
Hexagon selected for Innovate UK rail infrastructure artificial intelligence project	18
HOPESHOW Fuses Creativity and Business With Centric PLM	19
Kneron Boosts On-Device Edge AI Computing Performance with Cadence Tensilica IP	19
Posti Takes to the Cloud with Infor	20
Sporting Goods Retailer SCHEELS Scores with Oracle Cloud	21
With SAP Ariba Solutions, ERG Digitalizes Procurement and Upholds Commitment to Sustainability	21
<i>Product News</i>	22
Aras Accelerates Digital Transformation with Latest Open Release of Enterprise Low-Code Platform	22
Aspen Technology Begins Journey toward the Self-Optimizing Plant for the Refining Industry with Aspen Unified	24
AVEVA Prioritizes Cloud Strategy in Order to Respond to the Demands of The New Normal	25

CIMdata PLM Late-Breaking News

Centric Software® Pioneers 3D PLM for Long-term Market Recovery	26
DP Technology Announces New AI Capabilities on Flagship Product	27
InfiPoints Supports CAD Modeling with Automatic Feature Extraction from Point-Cloud Data Scanned with UAVs and MMS	29
Siemens Leverages Mendix to make Industrial Data accessible and actionable	30
Synopsys and Elektrobit Announce Availability of EB tresos Classic AUTOSAR Software for ARC	
Functional Safety Processor IP	31
ZWCAD 2021: Faster and Smoother	32

CIMdata News

Agenda Topics Announced for PLM Road Map & PDT 2020

03 September 2020

CIMdata and Eurostep are pleased to announce the agenda topics for PLM Road Map™ & PDT 2020, which will take place this year as a virtual-live event in November. The theme for this year's event is "Digital Thread—the PLM Professionals' Path to Delivering Innovation, Efficiency, and Quality." The event will take place between 9:00 AM – 12:30 PM (EST) / 15:00 – 18:30 (CET) on November 17-19.

PLM Road Map & PDT will bring together the perspectives of leading thinkers from aerospace & defense, maritime, and other industries who are working to remediate the pain points that inhibit the Digital Thread. The agenda will also include presentations from program managers responsible for Digital Thread strategies and implementations within their companies.

Presentations over the three days will cover the following topics:

Digital Twin, It Requires a Digital Thread

Multiple-View Bill of Materials Solution Evaluation Benchmarks

5G for Digital Twins & Shadows

Delivering Through Life: Digital Innovation in Maritime

Digital Thread: Be Careful What you Wish For, It Just Might Come True

Global Collaboration - Defining a Baseline for Data Exchange Processes and Standards

Looking Outside the Core of PLM to Deliver Value With PLM

Model-Based Definition

Model-Based Systems Engineering: The State of the Industry

What does it Take to Create the Digital Thread in Complex Systems Development?

Digital Thread—the PLM Professionals' Path to Delivering Innovation, Efficiency, and Quality

"The agenda topics are of high interest to any PLM professional, and the line-up of speakers is great, matching previous PDT Europe and PLM Road Map events," says Mr. Håkan Kårdén, Eurostep's Director of Marketing. "In times like these, everything is challenged, but the way to respond is not by standing still but by accelerating efforts and investments to help us meet the future. This year has demonstrated that we need to design PLM to be an agile, resilient, and systems-wide life cycle as well as supply chain. We are looking forward to delivering another must-attend event, this time on-line," added Mr. Kårdén.

According to Ms. Cheryl Peck, CIMdata's Director of Marketing, "For over 25-years, we have

demonstrated a commitment to delivering high client value through our face-to-face PLM conferences. This year's virtual event will be no different. The agenda topics we have put together look to future state requirements, roadmaps, and transformational implementations that encompass people, process, and technology.”

PLM Road Map & PDT is a highly relevant event for PLM industry leaders and PLM practitioners globally, providing independent education where ideas, trends, experiences, and relationships critical to the industry germinate and take root.

For more detail on the agenda, please visit <https://www.cimdata.com/en/education/plm-conferences/plmrm-pdt-fall-2020>

 [Click here to return to Contents](#)

CIMdata Publishes eBook: “Simple is Hard—But When You Get It Right, You Can Change the World”

01 September 2020

CIMdata, Inc., the leading global PLM strategic consulting and research firm, announces the release of a new eBook, Simple is Hard—But When You Get It Right, You Can Change the World. The eBook describes Upchain's guiding principle and vision for PLM—one where PLM acts like an operating system that is always on, always there, never to be worried about, and never in the way of getting the work done.

PLM is an enterprise strategy that must be enabled for all participants throughout an extended enterprise, not just those in engineering. What Upchain has done is to use the cloud and modern tools to build an end-to-end PLM solution that delivers a new user-centric approach that supports an extended set of PLM use cases while avoiding historic PLM pitfalls.

According to Mr. Peter Bilello, CIMdata's President & CEO, “For years, the industry has added complexity to PLM. In reality, complex solutions are hard to take advantage of. The need to customize to get what you want no longer holds, and in 2020, PLM does not need to be hard anymore. PLM solution providers, like Upchain, are making the complex simple so that industrial companies can focus on their business, rather than their technical data and process management infrastructure.”

Research for this eBook was sponsored by Upchain, a company based in Canada that has developed a cloud-based PLM solution that makes PLM simpler without sacrificing functionality.

To learn more, please download and read the complete eBook at www.CIMdata.com.

 [Click here to return to Contents](#)

CIMdata to Present at the Life Sciences PLM Innovation Forum Virtual Experience

03 September 2020

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces that it will be participating in the upcoming Life Sciences PLM Innovation Forum Virtual Experience. The event takes place on 10 September.

CIMdata President & CEO, Peter Bilello will make an on-demand presentation on “PLM in Medical Devices.” The presentation will focus on the typical challenges associated with PLM in medical device companies and how to overcome them.

CIMdata is also sponsoring the Life Sciences PLM Innovation Forum Virtual Experience, and members

of the CIMdata team will be on hand to meet with attendees. To arrange a meeting with the CIMdata team, contact info@CIMdata.com or [click here](#), or stop by the CIMdata booth.

For more information about the event, please visit <https://www.cimdata.com/en/events/cimdata-supported-events/event/558-the-life-sciences-plm-innovation-forum-2020>.

[!\[\]\(dfbd6b3763a6d1d9afaa974f64e2e4b5_img.jpg\) Click here to return to Contents](#)

Acquisitions

Accenture Makes Strategic Investment in InCountry

02 September 2020

Accenture has made a strategic investment, through Accenture Ventures, in InCountry, a data residency-as-a-service platform provider.

As enterprises continue to move large workloads to the cloud, increasingly stringent data protection regulations make handling data appropriately — for each jurisdiction in which they store, process and share information — a critical challenge. InCountry’s data residency-as-a-service platform allows enterprises and software-as-a-service companies to ensure their company and customer data is used in compliance with the data residency regulations of 90+ countries.

“With rapidly growing and evolving data protection regulations, data sovereignty has become an urgent imperative for our enterprise clients,” said David Treat, senior managing director and lead of Accenture’s Technology Incubation group and Blockchain practice. “InCountry offers a truly global data compliance solution that we believe addresses a burning need for businesses, providing a better security and compliance posture and removing obstacles for pushing further into the cloud to outmaneuver uncertainty.”

Peter Yared, CEO and founder of InCountry, said, “InCountry’s platform empowers organizations to comply with local data regulations and unlock global expansion – capabilities that are needed now more than ever. This investment not only supports our mission to enable global data compliance for international businesses by helping us further grow our platform, but Accenture Ventures also provides us with valuable connections across the ecosystem.”

Accenture plans to leverage the InCountry solution within its myNav cloud platform, as part of its sovereign cloud module.

Tom Lounibos, managing director, Accenture Ventures, added, “Our investment in InCountry aligns directly with Accenture Ventures’ mission to discover and grow the next generation of emerging technologies. InCountry’s solution sits at the intersection of the cloud, security and compliance priorities of our clients and can have a significant impact on how they operate in the cloud.”

InCountry is the latest addition to the investment portfolio of Accenture Ventures, which invests in companies that create or apply disruptive technology innovations that accelerate business value for Accenture clients world-wide.

 [Click here to return to Contents](#)

Infosys to Acquire Product Design and Development firm, Kaleidoscope Innovation

04 September 2020

Infosys announced a definitive agreement to acquire Kaleidoscope Innovation, a full-spectrum product design, development and insights firm innovating across medical, consumer and industrial markets, bolstering capabilities in the design of smart products. This acquisition demonstrates Infosys' commitment to innovate for its clients, and make a meaningful impact on human lives by combining cutting-edge technologies and experiences to revolutionize patient care, treatment, diagnostics and consumer health across the world.

Kaleidoscope Innovation brings to Infosys a diverse talent pool with extensive knowledge of design and engineering. The company leverages a deep understanding of clinical environments, strong product development capabilities across domains, and a consultancy-style approach addressing human factors, product design, UI/UX design, research & insight, development and visualization. It serves a marquee and diversified customer base with state of the art, in-house labs, 3D design environments and customer experience centers. Kaleidoscope designs microsurgical instruments, devices used in minimally invasive surgery, drug delivery devices for ophthalmic therapies and user-centric wearables. It also offers usability testing in support of regulatory submissions, including the delivery mechanism for aortic stents.

Ravi Kumar, President, Infosys, said, "This acquisition further strengthens our digital offerings at the intersection of new software technologies and medical devices - a sector that is expected to witness significant investments and consumerization in the post-COVID era. Our clients will benefit from the combination of Kaleidoscope's strong upstream offerings of product innovation and design, and Infosys' stack of product engineering, validation and commercialisation services at a global scale. We are excited to welcome Kaleidoscope Innovation and its leadership team into the Infosys family, as part of Infosys Engineering Services portfolio."

Nitesh Bansal, SVP & Global Head of Engineering, Infosys, said, "Device engineering for both the consumer and medical industries has been a critical success parameter for our clients. The addition of upstream concept design and human factors engineering, through this acquisition not only provides us end to end capability, but also creates an engagement engine dedicated towards innovation and growth in this sector."

Matt Kornau, CEO & Co-Founder, Kaleidoscope Innovation said, "We are enthusiastic about our exciting new partnership with Infosys. It allows us to scale quickly and bring expanded offerings in AI, Analytics, and Digital Infrastructure to our clients. Kaleidoscope has always valued the ability to enhance people's lives and their outcomes through innovation. We feel Infosys shares these same values and will open new avenues for our client partners, and our staff, to pursue larger opportunities together. We will remain dedicated to serving as good partners to other companies, large and small, as we continue to meet our mission."

Bill Taylor, Co-Founder, Kaleidoscope Innovation added, "Infosys provides an exciting platform for us to extend our relationship with our Business Partners to address the productization of solutions they have been asking us to deliver. Having the technical prowess and bandwidth to offer solutions that address manufacturability and lifecycle management will benefit all parties. We can now offer them the scale needed for both front end innovation and back end implementation and sustainability".

 [Click here to return to Contents](#)

Company News

Altair Extends Strategic OEM Agreement with Hewlett Packard Enterprise (HPE) to Optimize High Performance Computing

03 September 2020

Altair extended its multi-year OEM agreement with Hewlett Packard Enterprise (HPE) to offer the newly enhanced version of Altair® PBS Professional® workload manager and job scheduler across HPE's industry-leading HPC systems, including HPE Apollo Systems and new line of HPE Cray supercomputers. HPE Pointnext Technology Services, which provides advisory and professional services to design and deploy solutions, will also be used to offer support for Altair's latest software offering.

“Altair and HPE have forged a strong relationship that delivers compelling value for users of the world's most popular HPC systems,” said Sam Mahalingam, chief technology officer at Altair. “This new agreement and the latest release of PBS Professional demonstrate our determination to keep developing and deploying solutions that meet the industry's need to massively scale and continually update its HPC capabilities and resources.”

Key enhancements include massive improvements in throughput, support for both high performance and high-throughput workloads, effortless access to on-demand cloud resources, and new freedom to control and optimize budgets throughout an organization.

“We look forward to continuing our long-standing collaboration with Altair to offer our customers advanced options to target HPC and AI workloads,” said Pankaj Goyal, vice president of HPC and AI Product Management at HPE. “By offering the new release of Altair PBS Professional with our secure, high-performing and versatile HPC systems, we are enabling customers to optimize utilization, and improve productivity and efficiency for their most challenging workloads.”

Altair first signed an OEM agreement with HPE, a world leader in HPC and AI infrastructure solutions, in 2017. Previously, Altair had multi-year agreements in place with organizations acquired by HPE including SGI beginning in 2012 and Cray beginning in 2015. The decision of HPE and Altair to renew their commitment to strategic collaboration will ensure that HPC users can immediately benefit from the added functionality, flexibility, and efficiency of the latest iteration of PBS Professional.

 [Click here to return to Contents](#)

Altium Empowering the New Generation of Electronics Designers

02 September 2020

Altium LLC, believes that students should have access to professional tools today to prepare them for innovative careers in the future. In support of this mission, Altium has developed the Upverter Education distance learning program based on Upverter, a free, web-based printed circuit board (PCB) design tool that is easy to learn and use.

The collaborative and remote learning features of Upverter fit perfectly with the needs of STEM educators for guiding students through the electronics design process and their exploration of technology and engineering.

Tweet this

The collaborative and remote learning features of Upverter fit perfectly with the needs of STEM educators for guiding students through the electronics design process and their exploration of technology and engineering.

“It is truly a joy to provide our tools freely to students and to help prepare educators for the challenges they face with distance learning this year,” Dr. W. Gordon Kruberg, Head of Modular Hardware, at Altium, shares. “We look forward to seeing how Upverter can lift the level of understanding of students nationally and abroad. We are participating because we believe this rising tide will lift all boats.”

In addition to empowering educators and students all across the globe, Upverter will also be supporting the international FIRST Robotics competition launching this November. Several high school robotics teams are already using Upverter.

"Our students are super excited about robotics but are also new to the printed circuit board design and electronics learning. Having online access to the Upverter design tool and the learning resources will propel our learning curve, whether in class, or learning from home," reports Ryan Griggs, Lead Mentor, WAR Lords and WOW, Francis Parker School, San Diego, California.

The Upverter Education Program is a free resource and features:

Upverter, an easy to use, web-based tool for editing schematic diagrams and PCB layouts

Electrical engineering courses for students of all skill levels, including those with no prior exposure to circuit board design

A library of completed designs for inspiration and teaching

Responsive support from Upverter Forums for technical questions

An Upverter YouTube channel with detailed navigation videos

 [Click here to return to Contents](#)

Ansys Honored as Gold Stevie® Award Winner in 2020 Stevie Awards for Great Employers

28 August 2020

Ansys has been named the winner of a Gold Stevie® Award in the Achievement in Extended Enterprise Learning Programs category in the fifth annual Stevie Awards for Great Employers. The award recognizes Ansys' Simulation World, the world's largest virtual event for research and development leaders and engineering simulation thought leaders and users across industries.

The Stevie Awards for Great Employers recognize the world's best employers and the human resources professionals, teams, achievements and HR-related products and suppliers who help to create and drive great places to work. More than 700 nominations from organizations of all sizes were submitted this year for consideration in a wide range of HR-related categories.

As one of the judges for the Stevie Awards noted, "Ansys' effort to orchestrate such a complicated, technically difficult and logistically challenging event was very impressive... but more impressive was the fact they were able to successfully execute the event. Given the time pressure, COVID-19 and the fact that so many clients, peers and industry leaders would be participating, this is quite an impressive accomplishment. Well done!"

"When the COVID-19 pandemic prevented us from connecting at physical conferences, our team brought together executives, designers and analysts from leading-edge Fortune 500 companies, startups and academic institutions to virtually inspire each other with examples of product development agility and innovation," said Lynn Ledwith, vice president of marketing for Ansys. "I am proud of the more than 200 speakers, 65 sponsors and 800 Ansys employees who collaborated to make our virtual event such a success."

More than 90 professionals worldwide participated in the judging process to select this year's Stevie Award winners.

"In the fifth edition of the Stevie Awards for Great Employers, the judges were impressed by the Stevie winners who - during the crises we've confronted this year - continue to dedicate each day to making the lives of their employees and teams better through training, software, work-from-home plans, and more. We are pleased to celebrate them in 2020 and look forward to what they will accomplish in 2021," said Maggie Gallagher, president of the Stevie Awards.

 [Click here to return to Contents](#)

Atos helps researchers and students to experiment with quantum algorithms by offering free, universal access to myQLM

03 September 2020

Atos now provides free, universal access to myQLM, its program providing researchers, students and developers with quantum programming tools. Launched in 2019 and initially reserved to Atos Quantum Learning Machine (Atos QLM) users, myQLM aims to democratize access to quantum simulation and encourage innovation in quantum computing. By allowing all researchers, students and developers worldwide to download and use myQLM, Atos moves one step further forward in its commitment to empower the quantum computing community.

Quantum computing has the potential to change the world as we know it by spurring breakthroughs in healthcare, environmental sustainability, industrial processes or finance. The current race to develop a commercially viable quantum computer has been instrumental in increasing awareness of the field worldwide but the quantum revolution requires more than just hardware. Training of students, professors, engineers and researchers needs to be boosted to pave the way for the emergence of the new programming languages, algorithms and tools – all essentials in harnessing the true power of quantum computing.

Using myQLM, anyone can explore the capabilities of quantum computing, from experimenting with quantum programming to launching simulations of up to 20 qubits directly on their own computer or even larger simulations on the Atos QLM.

"The shortage of skilled experts is one of the next greatest challenges to the development of quantum technologies. By opening up the access to our quantum programming environment myQLM, we hope to help train the next generation of computer scientists and researchers and foster an active community that will shape the future of quantum computing. We invite everyone to download myQLM today and join us in this life-changing adventure", said Agnès Boudot, Senior Vice President, Head of HPC & Quantum at Atos.

myQLM comes with a complete set of tools:

A comprehensive user-guide and tutorials to learn more about the tool and about quantum programming.

A discussion forum where users can ask questions, get the latest news about myQLM and its

community, start threads about specific fields or topics, get support from the community or download training material.

A project on GitHub, including a myqlm-contrib repository in which users can push and promote their contributions. The project also includes source codes of the interoperability modules of myQLM – with Qiskit, Rigetti Forest, Cirq, ProjectQ – as well as the pyLinalg simulator.

Atos, a pioneer in quantum solutions

Atos' ambitious program to anticipate the future of quantum computing – the 'Atos Quantum' program – was launched in November 2016. As a result of this initiative, Atos was the first organization to offer a quantum noisy simulation module within its Atos QLM offer. Launched in 2017, Atos QLM is being used in numerous countries worldwide including Austria, Finland, France, Germany, India, Italy, Japan, the Netherlands, Senegal, UK and the United States, empowering major research programs in various sectors like industry or energy. Recently, Atos extended its portfolio of quantum solutions with Atos QLM Enhanced (Atos QLM E), a new GPU-accelerated range of Atos QLM.

 [Click here to return to Contents](#)

Bentley Institute Press Announces Availability of Infrastructure Digital Twins: A Leadership Short Course – Volume 1: Getting to Know iTwins

01 September 2020

Bentley Institute Press, publisher of cutting-edge textbooks and professional reference works for the advancement of the engineering, architectural, construction, operations, geospatial, and educational communities, has announced the availability of a new publication titled Infrastructure Digital Twins: A Leadership Short Course – Volume 1: Getting to Know iTwins, now available in print at www.bentley.com/Books, and as an e-book at www.bentley.com/Books, Amazon Kindle, and Apple Books.

Vinayak Trivedi, vice president and global head of Bentley Institute, said, “We are pleased to offer this first publication on infrastructure digital twins from Bentley Institute Press authored by Dan Raker, veteran CAD industry visionary and author/publisher of many titles including INSIDE MicroStation and MicroStation Manager Magazine. This slim, power-packed publication is a part of a broader digital-twin curriculum, which the Bentley Institute team is developing to help you get started with your infrastructure digital twins. Like all titles in the Bentley Institute Press portfolio, this publication aims to deliver continuous learning to practitioners in infrastructure professions to upgrade their technical skills and support their going digital initiatives.”

Infrastructure Digital Twins: A Leadership Short Course delivers an executive overview for leaders to understand and master the fundamental concepts necessary to drive their organizations' digital transformation.

Volume 1: Getting to Know iTwins: explains key definitions while establishing the confluence of tools compelling technical, organizational, and personnel adaptation disrupting the AECO industry.

Volume 2: iTwins in Action (Available in Quarter 4 of 2020) reveals use cases yielding huge cost savings and additional business opportunities through iTwin application of data analytics, artificial intelligence, virtual and augmented reality, and digital transformation of infrastructure construction and operations.

Both volumes educate leaders with an easily readable mix of powerful business language with the technical jargon enabling subject mastery for leadership direction.

The use of digital twins in infrastructure is giving weight to the idea that data is the new infrastructure. New and veteran infrastructure professionals understand the importance of bringing the built environment to life. With the marriage of design intent with ongoing infrastructure operations, digital twins enable executive-level insight, improved asset performance, and more sustainable environmental outcomes.

Author Dan Raker said, "As the world faces unprecedented need for new and refreshed infrastructure, implementing digital twins offers the greatest single impact for improving infrastructure's responsiveness while radically cutting environmental impact and cost. This book explains how and puts leaders in the driver's seat to steer their organization's digital twin transformation."

 [Click here to return to Contents](#)

CONTACT Software expands its partner network in North America and India

03 September 2020

FLEXUR Systems is a new Channel Partner of the CONTACT Global Ecosystem. The international solution provider in the field of PLM and IoT now offers companies with CONTACT Elements a powerful technology platform to successfully realize future requirements.

FLEXUR Systems is a global business group specialized in consulting, services and training in PLM, IoT and software development. Its customers include discrete manufacturing companies from the aerospace, automotive and engineering industries. The trend towards customized products poses great challenges for manufacturers in the alignment of their organization and production. Increasing product complexity and variant diversity, combined with ever shorter product cycles, require innovative solutions.

CONTACT reacts to the increasing demand of companies by expanding its worldwide partner network. "Many discrete manufacturers are increasingly looking for powerful product development platforms to successfully anchor their digitization strategies," says Michael S. Murgai, Director Strategy & Operations at CONTACT. "And CONTACT Elements provides the technological basis for this".

FLEXUR Systems has sites in Toronto (Canada), Indianapolis (USA) and Pune (India). Thus CONTACT increases the availability of its leading technology of digital lifecycle management solutions through the new sales partnership both in the most industrialized region of North America and in one of the high-tech centers in the Asia-Pacific region.

"We offer our customers worldwide the technology and know-how of a global market leader to enable them to fully exploit their potential through standards and best practices," says Sanjay Talekar, Managing Director at FLEXUR Systems. FLEXUR's experts have completed an intensive training program and offer their extensive services from distributed competence centers.

"With FLEXUR Systems we have a strong partner with great domain capabilities in the world's largest industrial markets," emphasizes Murgai. "Together we can significantly support the companies on their way to digital transformation".

 [Click here to return to Contents](#)

HCL CAMWORKS Announces Partnership With CIMTECHNOLOGY

04 September 2020

HCL Technologies announced a CAMWorks partnership with CIMTechnology LLC, a leading provider of Wire EDM (Electrical Discharge Machining) software. As part of the agreement, CIMTechnology's Wire EDM programming software will be exclusive to CAMWorks. This will provide CAMWorks users access to more advanced Wire EDM programming functionality for precise and intricate part cutting.

The partnership between CAMWorks and CIMTechnology will allow customers of both companies access to a culmination of technology and a wider range of CNC programming options for automated control of machining tools (such as drills, boring tools, lathes) and 3D printers.

CIMTechnology have specialized in Wire EDM for more than 30 years. Their Wire EDM technology was previously sold through OEM partners as stand-alone systems or as technology added to current programming systems. In the 1990s, CIMTechnology established their business by writing and selling the Impact CAD/CAM System for Wire EDM through Sodick, as well as developing Brother's PC-based conversational programming system for their drilling and tapping centers.

CAMWorks products include a range of milling and lathe (machining) solutions, in addition to Wire EDM. Technologies such as feature-based programming, knowledge-based machining and TechDB allow users to automate their CAD/CAM functions. CAMWorks is also fully integrated with SOLIDWORKS®, which means that users can work within the familiar user interface of SOLIDWORKS as they program the CNC code for their parts.

 [Click here to return to Contents](#)

Mentor achieves certifications for TSMC leading-edge 3nm process technology

04 September 2020

Mentor, a Siemens business, announced that TSMC has certified multiple Mentor product lines and tools for the foundry's recently announced 3nm (N3) process technology.

“Mentor's recent certifications for our advanced N3 process underscore the value that the company provides for our shared customers and the broader TSMC ecosystem,” said Suk Lee, Senior Director of Design Infrastructure Management Division at TSMC. “We are pleased to see the ongoing certification of a wide range of leading Mentor platforms to help our customers achieve silicon success benefiting from the significant power and performance boost of our most advanced process technologies.”

The Mentor offerings now certified for TSMC's N3 process include the Analog FastSPICE™ Platform, which provides leading-edge circuit verification for nanometer analog, radio frequency (RF), mixed-signal, memory and custom digital circuits.

Mentor has also expanded its support for TSMC's 2.5/3D offering with Mentor's Xpedition™ software, including Xpedition Substrate Integrator for design planning and netlisting and Xpedition Package Designer for layout, now enhanced to meet TSMC's requirements for InFO-R. In addition, Mentor's Calibre® platform 3DStack technology has expanded its support of inter-die LVS for TSMC offerings with support for CoWoS®-S.

Mentor's Calibre nmPlatform, which is the global IC verification industry leader, has added further certifications across multiple products for TSMC's N3 and N5 processes including:

The Calibre nmDRC™ and Calibre nmLVST™ tool suites, which are for IC physical and circuit verification sign-off. Calibre continues to deliver new advancements and functionality at each new process node, while delivering industry-leading accuracy, scalability and turnaround time.

The Calibre PERC™ reliability platform, which employs a unique, integrated analysis of both the physical layout and the netlist to automate complex reliability verification checks. Mentor has worked with TSMC to provide a comprehensive capability for ESD (Electrostatic Discharge) and Latch-Up verification.

The Calibre xACT™ parasitic extraction solution, which offers the high accuracy required for three dimensional FinFET structures and gives Mentor and TSMC customers the ability to fully leverage the inherent performance benefits of TSMC's 3nm offering.

“Mentor and TSMC continue to build on our long track record of delivering world-class solutions for our shared customers,” said Joe Sawicki, executive vice president, Mentor IC EDA. “TSMC's 3nm process technology is truly state-of-the-art, delivering performance and power efficiency for our worldwide base of mutual customers, and once again proving that Moore's Law is not dead.”

 [Click here to return to Contents](#)

SAP Boosts Industry-Wide Innovation with Startup Partnerships

03 September 2020

The COVID-19 pandemic is an extreme test in business agility, particularly across some of the hardest hit industries like healthcare, supermarkets, and manufacturing. Iristrace, a European-based startup, has developed a cloud-based platform that one hospital in Spain is testing to provide better patient care regardless of unpredictable demands.

Healthcare providers can use the COVID Patient Record Management mobile app to monitor real-time data about everything from hospital bed capacity by room to what equipment each patient is being treated with, and their vital signs.

“The algorithm helps simplify decisions for more informed and effective conversations about next steps,” said André Kingham, chairman of Iristrace. “Like most organizations, hospitals can't easily rework IT systems to add new protocols. Our cloud-based solution allows the hospital to quickly evolve protocols and cascade compliance into patient care without IT expertise.”

Save Time, Reduce Mistakes, and Improve Patient Care

Physicians, nurses, and other healthcare practitioners on the front lines can rely on the mobile app for continuity of daily patient care. Whether they are at the patient's bedside or behind the scenes with testing and research, providers can use the app to reliably capture and analyze relevant information. This can speed up hospital admissions and patient transfers for surgery and support safer handovers during shift changes along with better release decisions.

“Instead of making time-consuming telephone calls and consulting paper-based planning sheets at separate stations, providers can immediately see where beds are available and act faster,” Kingham said. “With multiple people involved in the patient's care, everyone is inputting data, which is captured in SAP Data Warehouse Cloud and analyzed in SAP Analytics Cloud. Eventually, this data can support forecasting and other research imperatives.”

Tech Eases Change Management

Agility will be critical in every industry as organizations slowly reopen and adjust to shifting mandates and restrictions. Kingham said the Iristrace solution can help organizations keep employees and customers safe while meeting quality assurance standards. The startup serves organizations in many industries including manufacturing, retail, food production, and energy.

“Typically, it takes time – communication and repetition – for people to change their mindset and incorporate new processes into the way they work,” Kingham explained. “The closer you can get to the employees who are servicing customers or managing machines that produce goods and services, the quicker you can bridge that gap for more agile business to mitigate risk.”

While some Iristrace customers were initially dismayed to discover high rates of non-compliance throughout operations, Kingham said they valued the feedback, which helped drive results such as improved customer experiences. Customers also appreciated the ability to manage audit compliance with fewer resources. Foodbox, a restaurant chain based in Spain, has relied on Iristrace to support daily compliance processes over the past three years.

“Working with Iristrace is part of our data-centric strategy that allows us to better anticipate customer preferences and provide them with an outstanding experience,” said Salvador Olmedilla, director of Operations at Foodbox Group. “In the post-COVID deconfinement period, the platform allowed us to quickly respond to the applicable regulations throughout our establishments to keep our employees and customers safe.”

Faster Innovation with Flexible Startup Partnerships

Iristrace was among the startups that participated in the accelerator program at SAP.iO Foundry Berlin last year. According to Thomas Saueressig, member of the Executive Board of SAP SE, Product Engineering, Iristrace is a great example of how SAP speeds up digital transformation for customers.

“Combining the power and scale of SAP with the agility of startups like Iristrace allows us to accelerate innovation, which is especially critical during the pandemic and long after,” Saueressig said. “Our open innovation strategy with an ecosystem of startups is emblematic of SAP’s modern ERP cloud, SAP S/4HANA. We’re building in integration from the start, while making it easy for partners to extend innovation on our cloud platform, helping customers become intelligent enterprises and realize the experience management vision.”

The Iristrace cloud-based platform is integrated with SAP governance, risk, and compliance (GRC) solutions.

Plans to Support Economic Recovery

Kingham sees expanded opportunities for Iristrace in numerous industries as supermarkets, hotels, and other businesses begin to reopen. Indeed, SAP is piloting the Iristrace app in select hygiene stations at its headquarters in Walldorf, Germany. Facilities management plans to rely on the algorithm to maintain office standards for cleanliness and safety, including proactively monitoring soap levels based on real-time usage data.

Kingham also said that governments in various regions have expressed interest in the solution to support citizens during the pandemic crisis and beyond.

 [Click here to return to Contents](#)

Siemens and eQ Technologic deliver Data-as-a-Service across Xcelerator Portfolio

02 September 2020

Siemens Digital Industries Software can now deliver more seamless integration and data and process orchestration across the Xcelerator™ portfolio through an expanded strategic partnership with eQ Technologic (eQ). Building on the long relationship between Siemens and eQ, Siemens’ customers can now access the eQube® Data as a Service platform to create digital threads connecting systems including Product Lifecycle Management (PLM), Enterprise Resource Planning (ERP), Application

CIMdata PLM Late-Breaking News

Lifecycle Management (ALM), Internet of Things (IoT), and other Information Technology (IT), Engineering Technology (ET) and Operational Technology (OT) solutions. eQube extends the Mendix™ Data Hub, a key component of the expanded Mendix low-code platform, and can help enable industrial data and system integrations with a rich set of over 60 smart connectors developed from domain-specific knowledge drawn from over 20 years of experience.

“Siemens and eQ have leveraged eQ’s proven technology for many years to successfully help customers in multiple industries to integrate and federate data and processes across systems,” said Tony Hemmelgarn, President and CEO at Siemens Digital Industries Software. “Expanding our partnership can help us build on this success and expand globally across all the industries we serve.”

Many companies have data distributed across multiple systems and generated by a variety of applications. As digital transformation is embraced as a core business strategy, these organizations are under immense pressure to gain collective insight into this distributed data and connect it virtually without replication. The eQube DaaS platform establishes a connected network of integrated data, applications and devices that puts the power of analytics in the hands of end users leading to actionable insight. This partnership can help Siemens customers improve their ability to harness information from multiple systems by establishing an integrated data environment for their digital threads, multi-application integrations, orchestration and virtualization through for-purpose industrial integrations to address specific business problems.

As a first step in the expanded partnership, Siemens will begin offering the eQube DaaS platform with over 60 smart connectors, including PLM, ERP, Asset Management, ALM, IoT, Program & Portfolio and Databases and leverage the eQ team for pre-sales, services and field support. Leveraging the eQube DaaS platform in conjunction with the Mendix low-code application development platform, users can easily access data from across systems to automate new workflows and create new deeply integrated applications and experiences. With better understanding through traceability and actionable insights of cross-system data, Siemens’ customers can reduce required resources and accelerate their transformation into digital enterprises.

“As a long-time Siemens partner, we understand the importance and challenge of connecting data and processes across the digital enterprise, including a wide range of PLM products such as Teamcenter from Siemens, ERP, ALM, MES, Asset Management, other enterprise software products and IoT,” said Dinesh Khaladkar, President and CEO, at eQ Technologic. “Extending this partnership can further help Siemens’ customers accelerate digital transformation by connecting and integrating their systems. eQube solves complex integration problems, simply, helping organizations gain actionable insights and improve collaboration.”

 [Click here to return to Contents](#)

Wipro Study Finds 95% Business Leaders Consider AI Critical, Yet Only 17% Leverage it Across the Organization

02 September 2020

Wipro Limited launched the ‘State of Intelligent Enterprises’ report. The study emphasizes that

enterprises of the future will be built on a foundation of Artificial Intelligence (AI), Analytics, Machine Learning, Deep Learning and Automation, that are central to solving business problems and driving innovation. Most businesses consider AI to be critical to improve operational efficiency, reduce employee time on manual tasks, and enhance the employee and customer experience.

The 'State of Intelligent Enterprises' report examines the current landscape and shows the challenges and the driving factors for businesses to become truly Intelligent Enterprises. Wipro surveyed 300 respondents in UK and US across key industry sectors like financial services, healthcare, technology, manufacturing, retail and consumer goods. The report highlights that while collecting data is critical, the ability to combine this with a host of technologies to leverage insights creates an Intelligent Enterprise. Organizations that fast-track adoption of intelligent processes and technologies stand to gain an immediate competitive advantage over their counterparts.

Some of the key findings from the report are:

While 80% of organizations recognize the importance of being intelligent, only 17% would classify their organizations as an Intelligent Enterprise.

98% of those surveyed believe that being an Intelligent Enterprise yields benefits to organizations. The most important ones being improved customer experience, faster business decisions and increased organizational agility.

91% of organizations feel there are data barriers towards being an Intelligent Enterprise, with security, quality and seamless integration being of utmost concern.

95% of business leaders surveyed see AI as critical to being Intelligent Enterprises, yet, currently, only 17% can leverage AI across the entire organization.

74% of organizations consider investment in technology as the most likely enabler for an Intelligent Enterprise, however 42% of them think that this must be complemented with efforts to re-skill workforce.

Jayant Prabhu, Vice President & Head - Data, Analytics & AI, Wipro Limited said, "Organisations now need new capabilities to navigate the current challenges. The report amplifies the opportunity to gain a first-mover advantage to being Intelligent. The ability to take productive decisions depends on an organization's ability to generate accurate, fast and actionable intelligence. Successful organisations are those that quickly adapt to the new technology landscape to transform into an Intelligent Enterprise."

 [Click here to return to Contents](#)

Events

Altair to Virtually Present at the Deutsche Bank Technology Conference

01 September 2020

Altair announced that Howard Morof, chief financial officer, and David Simon, chief administrative officer, will virtually present at the Deutsche Bank Technology Conference on Monday, September 14, 2020 at 10:05 a.m. ET.

A live webcast, as well as a replay, of the presentation will be available on the company's investor relations website at <http://investor.altair.com>.

 [Click here to return to Contents](#)

Fujitsu to Reimagine the Future at Fujitsu ActivateNow 2020 Global Digital Experience

01 September 2020

Fujitsu ActivateNow, the company's new flagship event delivered as a digital experience, takes place on October 14 and 15, 2020. Fujitsu ActivateNow has a new format to deliver the high-quality speakers and content for which Fujitsu events are renowned. The program is designed to meet businesses' evolving needs and expectations for digital transformation and innovation.

Fujitsu believes that society's collective recovery from the COVID-19 pandemic will be driven by human-centric innovation, digital transformation and trust. Accordingly, the overarching theme of Fujitsu ActivateNow is 'Trust'.

Designed to enable businesses to explore how they can reimagine how they operate, the Fujitsu ActivateNow conference program is intended as a catalyst for businesses to take the next step on their digital transformation journeys. While this year has generated widespread uncertainty across business and society, Fujitsu believes there is a unique opportunity to build trust in a collective future.

Building on the popularity of the bi-annual Fujitsu Forum events in Tokyo, Japan, and Munich, Germany, the format of Fujitsu ActivateNow is refreshed to reflect changing demographics and diverse interests of Fujitsu's customer base. ActivateNow will continue to share information, insights and best practice from Fujitsu's senior leaders, technology experts, customers, partners and high-profile thought leaders. The virtual conference will also feature Fujitsu's trusted technologies, methodologies and expertise that will provide the building blocks for customers' new futures.

[!\[\]\(de95854c7ee024cfadc48187bbb781b2_img.jpg\) Click here to return to Contents](#)

Financial News

Capgemini: First half performance reflects the Group's resilience

03 September 2020

Revenues of €7,581 million, up +8.2% with the acquisition of Altran

H1 constant currency growth of +7.9% and organic growth* of -3.4%

Q2 constant currency growth of +13.4% and organic growth* of -7.7%

Operating margin* up +3% in value and down a limited -0.6 points to 10.8% of revenues

Normalized earnings per share* down -4% and Net profit (Group share) down -20%

Organic free cash flow* up €16 million to €106 million

The Board of Directors of Capgemini SE, chaired by Paul Hermelin, convened on September 2, 2020 to review the accounts of Capgemini Group for the first half of 2020.

Aiman Ezzat, Chief Executive Officer of Capgemini Group, said: “We achieved a robust performance in the first half. The Group ensured the continuity of our clients’ service while maintaining a strong momentum in bookings. I would like to thank all Capgemini employees for their outstanding commitment throughout this period. These results are not only a reflection of our strong responsiveness to the crisis but also the work carried out over the past decade to improve our operating model, diversify our activities and develop our digital and cloud services.

Today, we set objectives for 2020 that illustrate the resilience of our revenues, profitability and organic free cash flow.

This first half was also marked by the completion of the acquisition of Altran, which brings a new dimension to our Group and a leadership position in the dynamic “Intelligent Industry” market. The integration is progressing rapidly in particular thanks to the quality of the collaboration between the teams.

Finally, I would like to highlight our commitment to tackling climate change, which I have placed at the heart of the Group’s priorities, with our new target of “net zero emissions” by 2030.”

 [Click here to return to Contents](#)

Implementation Investments

ABB Information Systems selects TCS for Hosting Infrastructure and Cloud Service Management

04 September 2020

Tata Consultancy Services has been selected by ABB Information Systems for transforming its hosting infrastructure and cloud service management. The Swiss-headquartered technology leader identified TCS as its service partner as a part of the organization’ endeavor to Rationalizing IT Operations (code named: Program RIO) and intends to increase the flexibility, scalability and resilience of the hosting services delivered to the business.

TCS will function as ABB’ managed service partner with an end-to-end responsibility in Hosting Infrastructure and Cloud Service Management. TCS will transition from ABB’ incumbent and steer the transformation journey in a structured approach along with ABB. Through the transformation TCS will optimize, simplify and improve the quality assurance of services via automation and consolidation of services housed in ABB’s strategic datacenters and remote sites, with a cloud-first approach. This will be done in-line with ABB’s new Operating Model.

“Our strategic investments coupled with unmatched industry expertise and deep contextual knowledge have made us the preferred transformation partner for progressive manufacturing organizations across the world.”

– Susheel Vasudevan, Business Group Head, Manufacturing & Utilities, TCS

TCS’ cognitive automation software, Ignio™, will be used to harness the power of AI, machine learning, and advanced software engineering to autonomously resolve issues and make the infrastructure stack self-healing and resilient. TCS Cloud Exponence™ platform provides frictionless, rapid on-boarding, and standardized delivery experience in a hybrid cloud environment. TCS will deploy its Machine First Delivery Model™ to reduce operating risk, boost velocity and enhance resilience. TCS Intelligent Cloud Migration Continuum (iCMC™) solution will be used to create an optimized transformation roadmap that lays out the migration sequence tailored to meet the business needs.

 [Click here to return to Contents](#)

Heide Refinery Accelerates its Digital Journey with Aspen Technology Software

03 September 2020

Aspen Technology, Inc. announced that Heide Refinery, one of the most complex refineries in Europe,

has licensed Aspen Generic Dynamic Optimization Technology (GDOT™) software to achieve production levels more closely aligned to plan.

The solution will be deployed to help improve refinery margins with real-time, closed-loop, dynamic optimization increasing the flexibility of operations. GDOT will maximize against operational constraints across the refinery and help to reduce finished product quality giveaway, improving business results.

Juergen Wollschlaeger, CEO at Heide Refinery said: “AspenTech’s GDOT will improve agility in our response to changes in market conditions, such as those we are experiencing right now. It will optimize our production by continuously adjusting targets in the individual controllers within the Advanced Process Control layer so that they align with the economic objectives from planning and scheduling. Ultimately GDOT will optimize profits by minimizing finished product quality giveaway and maximizing production of the most valuable products.”

Matt Holland, vice president of sales for EURA, Aspen Technology added: “The global energy industry is facing a number of unforeseen challenges today. Operational flexibility for refineries is more crucial than ever in this environment. Our GDOT technology will give Heide Refinery the increased agility and flexibility in its operations that this unpredictable landscape demands.”

 [Click here to return to Contents](#)

Hexagon selected for Innovate UK rail infrastructure artificial intelligence project

02 September 2020

Innovate UK, the country’s innovation agency, has selected Hexagon’s Geospatial division to conduct a research project that will result in faster and higher-precision mapping of railway infrastructure through the use of artificial intelligence. The project is funded by Network Rail, the owner and operator of Great Britain’s railway infrastructure, under its R&D portfolio and delivered by Innovate UK through the SBRI competition, Innovation in Automated Survey Processing for Railway Structure Gauging, Phase One. A small group of teams was selected for this effort.

The project will enable Network Rail to automatically identify and measure railway structures from LiDAR data, saving valuable time and resources, while also improving planning and operations across the rail network. The current, manual process takes analysts months or even years due to the size of the data and the labor-intensive tasks involved.

“The combination of cross-sectional area, shape, length and speed all place a space requirement on today’s railway,” said James Sweeney, Senior Engineer at Network Rail. “We anticipate this project will offer us a more efficient way to capture, analyse and measure railway features along 20,000 miles of track, which is important to railway safety and the growth and capacity of our network.”

Network Rail collects detailed information about its track and the surrounding features, such as bridges and tunnels. The data is then analyzed to assess clearances between trains and the infrastructure around them, which is key to safety. The new project aims to automate the extraction and calculation of railway features from sensor data, leveraging AI to automatically analyse point cloud data, identify different structure types and perform measurements on the structures. The data will be collected from reality capture solutions from Hexagon’s Geosystems division.

“Network Rail, supported by Innovate UK, is leading the way in the use of AI to automate rail structure

identification and measurement,” said Mladen Stojic, president of Hexagon’s Geospatial division. “We are excited to be part of a project that can help transform the gauging process for UK railways.”

[!\[\]\(2e897e890e69d81eae4503a8342c36b0_img.jpg\) Click here to return to Contents](#)

HOPESHOW Fuses Creativity and Business With Centric PLM

04 September 2020

HOPESHOW, a leading Chinese womenswear brand, has successfully implemented Centric Software’s Product Lifecycle Management (PLM) solution, and Centric is celebrating with the release of a success story. Centric Software provides the most innovative enterprise solutions to fashion, retail, footwear, outdoor, luxury, consumer goods and home décor companies to achieve strategic and operational digital transformation goals.

Founded in 1995, HOPESHOW is a brand targeting urban women aged 25-40 that belongs to the Hangzhou-headquartered Hongjin Fashion Group. The group has a national sales network of 1,600+ outlets, employs 4,000+ people and makes in excess of 10 million garments every year.

Seeking to organize product data and optimize decision-making, HOPESHOW decided to implement a PLM solution. Centric Fashion PLM was selected for its real-time online operations, visual interface and synergy with other enterprise solutions.

Ms. Liu Hua, Founder and Chairperson of HOPESHOW, explains, “We could not rise to market challenges with our basic R&D model. Fashion brands need a digital R&D model to help design and R&D teams maximize their expertise, optimize business processes and improve work efficiency, while maintaining a balance of creativity and newness combined with the voice of the customer.”

With Centric PLM, teams can make rational decisions using detailed, organized, up-to-date product data. Preparing for a buying session used to take seven days, but now takes seconds.

“Centric Fashion PLM allows all teams to track the entire development process of each style,” explains Ms. Wang Xiulan, Product Director of HOPESHOW. “At any stage, delays or problems can be handled right away. It also gives us complete transparency on the detailed prices of fabric and trims. That helps us accurately estimate costs at the initial stage of development and ensure profit margins.”

Centric PLM has since been adopted by H’S, another brand in the group, and HOPESHOW intends to implement advanced applications for planning, 3D design and more.

“We’re delighted that HOPESHOW is experiencing great results,” says Chris Groves, President and CEO of Centric Software. “HOPESHOW is a future-focused brand that is using Centric PLM to power strategic decision-making and better meet consumer demand.”

[!\[\]\(0fb13ad0bfa3d86868cdd3883e5665b3_img.jpg\) Click here to return to Contents](#)

Kneron Boosts On-Device Edge AI Computing Performance with Cadence Tensilica IP

03 September 2020

Cadence Design Systems, Inc. announced that Kneron, a leading provider of on-device edge AI solutions, has integrated the Cadence® Tensilica® Vision P6 DSP in its next-generation KL720, a 1.4TOPS AI system-on-chip (SoC) targeted for AI of things (AIoT), smart home, smart surveillance, security, robotics and industrial control applications. Demonstrating its continued leadership in the low-power, high-performance vision DSP market, the Tensilica Vision P6 DSP provides Kneron with up to 2X faster performance for computer vision and neural network processing compared to its prior-

generation SoC, while delivering the power efficiency crucial for edge AI. For more information on the Tensilica Vision P6 DSP, please visit www.cadence.com/go/kneronp6.

In designing the KL720, Kneron prioritized design flexibility and configurability for its customers, promoting seamless AI development and deployment when using the new platform. Through its scalable Xtensa® architecture and the Xtensa Neural Network Compiler (XNNC), the Tensilica Vision P6 DSP provided Kneron with the flexibility and compute efficiency to easily adapt to the demands of the latest algorithms on the edge.

“Removing hurdles and making AI algorithm deployment on our platform easy is key for us and our customers’ success as our mission is to enable AI everywhere, for everyone,” said Albert Liu, founder and CEO of Kneron. “The Tensilica Vision P6 DSP packs a lot of compute capacity to tackle the latest AI challenges. Additionally, Cadence’s electronic design automation full flow along with on-site support helped tremendously to speed up IP integration and reduce time to market.”

Part of the broader Tensilica AI IP offering at Cadence, the Tensilica Vision P6 DSP has been adopted by a number of leading companies in the mobile, AR/VR, AIoT, surveillance and automotive markets. It supports the company’s Intelligent System Design™ strategy, delivering pervasive intelligence.

 [Click here to return to Contents](#)

Posti Takes to the Cloud with Infor

02 September 2020

Infor announced that Finnish postal and logistics leader [Posti](#) has begun its migration to [Infor CloudSuite WFM \(Workforce Management\)](#). Driven by a need to address key business process improvements, the cloud-based application will cover more than 22,000 employees in Finland.

Infor CloudSuite WFM will simplify the shift planning process and offer an improved user experience, including mobile access, while decreasing running costs and enabling seamless upgrades.

The existing on-premises Infor WFM application handles the scheduling and fully automated time-and-attendance related to operations such as sorting, transportation and delivery of mail and parcels. In addition, the application handles complex, Posti-specific pay rules and more than 20 collective and local agreements. Infor CloudSuite WFM will continue to support all this existing functionality.

Additional capabilities of Infor CloudSuite WFM include mobile-based, employee self-service including shift timings, leave requests and shift swapping; new management capabilities to improve staff coverage during holiday seasons and geo-fencing. CloudSuite WFM will cover five new employee groups and enable integration with other Posti systems. These new capabilities built on a cloud deployment will provide employees with the flexibility they need to quickly adapt in today's environment.

"Posti's business includes postal services, parcels, freight and logistics solutions. We have the widest network coverage in Finland, and we visit about 3 million households and companies every weekday. The complexity and scale of the manpower behind this operation demands world-class management processes and tools," said Marja Leena Hirvonen, Posti digital HR lead for WFM. "We must ensure not only correct payment and full compliance with Finland's complex employee and holiday entitlement program and union rules, but also empower our staff to take control of their working practices. This necessitates a cloud-based technology platform in which we have already got a great deal of confidence – and that is what we have found in Infor CloudSuite WFM."

"Migration to the cloud is no longer just a financially-driven decision," said Johan Made, Infor executive vice president and GM of Nordics. "This evolution within Posti demonstrates not only cost-savings but

also huge leaps forward in terms of functionality and process improvements. This is a clear validation of the decision to move to the cloud, and Posti joins the growing list of companies moving business-critical systems to the cloud with Infor, with confidence."

 [Click here to return to Contents](#)

Sporting Goods Retailer SCHEELS Scores with Oracle Cloud

01 September 2020

An employee-owned company, SCHEELS prides itself on delivering a memorable and immersive shopping experience. In addition to a wide variety of sporting goods, SCHEELS 28 stores feature entertainment activities including aquariums, cafes, ferris wheels and other large-scale attractions. By moving to the Oracle Cloud POS system, associates are now free to move about the store to help customers wherever their passion lies. Oracle PartnerNetwork member BTM Global completed the first implementation of Oracle Retail Xstore and Oracle Retail Xstore Office Cloud Service in just five months.

"As a long standing customer of Oracle and BTM Global, we were happy to work on such a unique cloud project," said Byron Snider, information services leader, SCHEELS. "The SCHEELS leadership team believes that modern technology is critical to enhancing the experience for our associates, customers, and business partners. BTM pushed us to think critically about the solutions, driving the implementation, and providing strategic guidance on what's best for our business needs as we move towards a checkout model that captures demand at the point of interest."

By adopting the latest Oracle Xstore release, SCHEELS associates are no longer tethered to a central register. Associates can move across departments to guide the customer to more relevant offers and compelling merchandise. And by moving to the cloud, SCHEELS gains access to continuous innovation, reduces IT cost long-term, and modernizes infrastructure to keep pace with the changing retail landscape.

"Together with BTM Global, Oracle offers customers, like SCHEELS, a thoughtful and quick implementation approach," said Mike Webster, senior vice president, and general manager, Oracle Retail. "Our goal is to enable retailers to focus their core resources on igniting the passion of their customers, supporting new consumer journeys and empowering their operations while we focus on delivering continued innovation."

"The key to this cloud implementation was the tight relationship between Scheels, BTM, and Oracle Retail," said Tom Schoen, CEO of BTM Global. "A clear plan and good communication between all parties were essential for meeting the strategic objectives. We were thrilled to partner with Scheels on another project that will shape their future success."

SCHEELS is a long standing customer of Oracle Retail. SCHEELS began their implementation of Oracle Retail Xstore and Oracle Retail Xstore Office Cloud Service in September 2019.

 [Click here to return to Contents](#)

With SAP Ariba Solutions, ERG Digitalizes Procurement and Upholds Commitment to Sustainability

01 September 2020

SAP SE announced that ERG, a leading European independent power producer in the renewables sector, has implemented SAP Ariba solutions to digitalize and unify its procurement operations.

Having been in business for more than 80 years, ERG shifted from oil to green energy in 2008 by

producing electricity from renewable sources such as wind, solar, hydroelectric and high-efficiency, low-environmental-impact cogenerative thermoelectric power plants.

Digital Procurement to Support ERG's Cloud Transformation Objectives

ERG is adopting cloud-based technologies for a more flexible infrastructure with greater integration, better process efficiency, faster updating and lower management costs. ERG chose SAP Ariba solutions as part of a strategy to consolidate purchasing on a single platform, bringing the needs of various business functions together to share universal and timely information.

“After careful evaluation of available solutions, we selected SAP Ariba solutions for ease of integration with our existing SAP systems, and to offer our suppliers a single interface to connect and collaborate with our organization and our partners,” said Anna Campi, ERG’s head of procurement planning control and vendor management. “Since adopting the SAP Ariba solutions, we have seen significant savings over the previous solution. We have also improved our supplier qualification structure by product sector with SAP Ariba solutions providing a much more accurate and reliable vendor list.”

The SAP Ariba Sourcing and SAP Ariba Supplier Lifecycle and Performance solutions will enable ERG to collaborate with suppliers to help ensure alignment with its organizational principles and code of conduct. In particular, it will help ERG with its regular compliance assessments of strategic suppliers, which represent about 80 percent of the company’s purchases. By collaborating in real time, ERG can work to improve operating margins and reward strategic suppliers for compliance.

“Collaboration with suppliers could not be more important than it is right now, as companies focus on business continuity,” said Chad Crook, senior vice president and global head of Customer Engagement and Adoption, SAP Procurement Solutions. “With SAP Ariba solutions, ERG has a digitalized and simplified process for end-to-end spend management on a single platform and the ability to more effectively connect and collaborate with suppliers to achieve compliance and maintain a smooth flow of operations among its trading partners.”

ERG's Commitment to Renewable Energy and Sustainability

ERG has been engaged in a continuous process of sustainability improvement. For the second consecutive year, it ranked among the top 50 most sustainable companies in the world, according to the Corporate Knights Global 100 Index, and is listed on the Milan Stock Exchange. This initiative, and ERG’s objective to develop production and purchasing projects while improving end-to-end processes, has influenced its procurement. Following the company’s new green principles, ERG’s board recently approved a code of conduct for suppliers.

 [Click here to return to Contents](#)

Product News

Aras Accelerates Digital Transformation with Latest Open Release of Enterprise Low-Code Platform

02 September 2020

Aras announced the availability of the latest open release of the company’s enterprise low-code platform, Aras Innovator Version 12 SP9, enabling organizations to accelerate the digital transformation of their product ecosystems with an end-to-end digital thread. The release includes significant functionality enhancements along with even faster performance in large global deployments. As an open release, anyone can download and use the release at no cost, allowing organizations to run their business on the Aras platform.

CIMdata PLM Late-Breaking News

Companies need to continually transform to become more resilient, therefore creating an organization that can continually adapt to meet the unknown challenges of tomorrow. The future belongs to those that possess the agility to quickly pivot and take advantage of opportunity in a world of accelerating disruption.

This release extends Aras' platform capabilities in five core areas that increase the velocity with which manufacturers of complex products can transform their processes. The five core areas include:

Improve User Productivity Across the Platform

A streamlined user experience created by a simplified interface makes Aras Innovator even easier to use and learn, while a navigation redesign helps users find the information they need faster. Additional productivity improvements span all aspects of the suite.

Enhance Visualization to Accelerate Navigation and Analysis

As product designs increase in complexity, manufacturers must be able to easily view and navigate their product data. Through a series of new updates, Aras has bolstered the power of its digital thread and digital twin visualization capabilities. Users can visualize relationships in the digital thread with Aras Graph Navigation; navigate PLM data in context of 3D models with Aras Dynamic Product Navigation; and visualize relationships with hierarchical display with Aras Tree Grid View – all of which help break down internal information siloes and create a clear through-line of product information to aid in informed decision-making.

Expand Functionality with New Platform Applications

Aras continues to build new applications across the lifecycle that expand the platform's breadth of functionality. Users can now manage requirements with context in PLM data using Aras Requirements Engineering and manage system models with traceability using Systems Architecture. Aras has also continued its incorporation strategy of acquired applications. Users can now capture and manage context for any physical asset with Digital Twin Core and manage simulation processes and results in the digital thread with Aras Simulation Management.

Optimize Core PLM with Updated Platform Applications

Aras has strengthened its engineering capabilities by regularly releasing enhancements to streamline the user experience in order to support product complexity. Users can define and manage product data across the lifecycle with Aras Product Engineering; connect and manage documents in the digital thread with Aras Office Connector; simplify electronic component selection with Aras Component Engineering; and unlock product data for the enterprise with SOLIDWORKS PDM Pro Connector.

Advanced Configurability with New Low-Code Features

Aras has extended its platform's modeling engine by adding new low-code capabilities that improve Client Modeling through advanced security options and a streamlined Technical Documentation Framework, enabling organizations to continue to customize the application landscape and build with Aras to support new business initiatives.

“Business processes change quickly and often, without concern for the ability of supporting systems to change with them. It is critical for organizations to implement a strategy that enables them to adjust, adapt, and adopt when they need to,” said Peter Bilello, President & CEO of CIMdata. “By taking a sustainable platform approach, organizations are enabling the enterprise to get their work done in the most efficient way possible and can ensure end-to-end optimization and connectivity that is critical to an organization's digital transformation.”

“At Aras we use our own platform as the basis of our worldwide product development processes, and even through recent periods of disruption we've been able to accelerate our release cadence to deliver a

continuous flow of new functionality to our customers,” said John Sperling, SVP of Product Management at Aras. “We are excited about the new capabilities we’ve delivered in 12.0 SP9, and confident that Aras Innovator will take your product development processes to the next level, just like it did for us.”

Aras Innovator 12 SP9 is available for open users to download now. To learn more about the Aras Innovator platform, visit www.aras.com. Existing subscribers can start planning their next Aras upgrade by going to the Subscriber Portal.

[!\[\]\(dfbd6b3763a6d1d9afaa974f64e2e4b5_img.jpg\) Click here to return to Contents](#)

Aspen Technology Begins Journey toward the Self-Optimizing Plant for the Refining Industry with Aspen Unified

01 September 2020

Aspen Technology, Inc. announced the new release of Aspen Unified™ to deliver the next generation of production optimization solutions that will transform business processes for the world’s refineries. The Aspen Unified solution brings planning and scheduling together in one environment to connect and automate isolated processes, maximize the yield of high value products, push closer to limits and drive improved margins.

Through a unified and visually intuitive flowsheet interface, a refinery’s planning and operations teams can easily build and sustain models as well as gain a more accurate view of current performance and plant constraints. The Aspen Unified solution is built to reduce margin leakage across the different operational silos and to improve consistency in modelling data between planning and scheduling. With AspenTech’s dynamic optimization technology—Aspen GDOT™—Aspen Unified aligns plant operations with economic conditions to achieve production optimization in real time. Aspen Unified helps operations to better achieve the goals of the refinery, including safety and environmental targets, as well as financial and production KPIs. Aspen Unified is the first step in realizing the vision for the Self-Optimizing Plant.

AspenTech defines the Self-Optimizing Plant as a facility that can automatically respond to changing operating conditions. AspenTech is creating industrial applications that can bridge functional silos and adapt to maintain the high levels of efficiency semi-autonomously. A refinery (or refineries in the case of Aspen Unified PIMS with Multisite option) that implements Aspen Unified to align planning and scheduling and with closed-loop automation systems such as advanced process control (APC) and dynamic optimization, can begin to drive higher efficiency from its operations. They will become more capable, more agile, more flexible, safer and more profitable, under all market conditions.

“With a single environment now serving both planners and schedulers, Aspen Unified connects silos and increases visibility to improve decision making. Designed to be deployable in the cloud this solution offers much greater scalability with plant wide benefits,” said David Arbeitel, Senior Vice President, Product Management for Aspen Technology. “Bringing planning, scheduling and operations closer together allows accelerated and more consistent model building. This ensures production plans are more accurate and can be successfully executed.”

According to Peter Reynolds, Senior Analyst, ARC Advisory Group, “The Aspen Unified solution with updated software and support for consistent data models could help industrial companies simplify workflows. By improving collaboration and breaking down silos between Planning, Scheduling and, Operations, companies have the potential to create higher-value work processes and improve margins.”

The Aspen Unified™ solution includes Aspen Unified PIMS with Multisite option™, Aspen Unified

Scheduling™, Aspen Unified GDOT Builder™ and Aspen GDOT™.

 [Click here to return to Contents](#)

AVEVA Prioritizes Cloud Strategy in Order to Respond to the Demands of The New Normal

27 August 2020

AVEVA, a global leader in engineering and industrial software, today unveiled ‘Cloud-First’, a key component of its long-term software portfolio strategy to focus on providing core services in the cloud to ensure high uptime and availability, user management and the flexibility to try new solutions. The strategy includes the introduction of scenario-driven integration between products for rapid time to value.

As part of this strategy, AVEVA has also announced significant new advances to its industry-leading cloud platform, AVEVA Connect - AVEVA Unified Engineering and AVEVA Insight Guided and Advanced Analytics. These new solutions, accessed in the cloud, reduce total cost of ownership, help users to improve efficiency and enable decision support with infused industrial Artificial Intelligence (AI).

Designed to securely host AVEVA software solutions in the cloud, AVEVA Connect already enables more than 1,900 customers and over 25,000 users to access multiple products from one platform with a single sign-on. Connecting teams, data and processes in the Cloud is a key differentiator for AVEVA today given the changes in working patterns, the massive amounts of data being generated by industries and the need to bring many disparate processes together via one source. It facilitates improved user management across all assets as well as the capability to monitor usage of subscription credits across the entire AVEVA software portfolio.

“The new normal has required a shift in business focus and imperatives,” said Ravi Gopinath, Chief Cloud Officer and Chief Product Officer, AVEVA. “Moving forward, businesses will witness reduced capital investments, changing working processes, a heightened need for visualization tools and much greater agility and responsiveness across the value chain to minimize value leaks and optimize production to maximize profit opportunities. Organizational focus has shifted to demand increased flexibility, much more real time collaboration, intelligent applications and a more streamlined user experience. AVEVA Connect will serve as a ‘one stop shop’ for all these requirements.”

New AVEVA Connect Solutions delivering Improved Efficiencies for Industrial Organizations

AVEVA Unified Engineering, breaks down the silos to deliver a collaborative data-centric environment with a single source of accountability across the engineering lifecycle. Multi-discipline teams across owner operators and EPCs can now collaborate to execute greenfield and brownfield projects with high traceability in a secure cloud environment that can be set up in days to accelerate time to value and reduce total installed cost. The AVEVA Insight Guided and Advanced Analytics are now available in the Cloud for advanced pattern recognition to augment automated analytics and condition monitoring. The solution offers a quick time to value enabling customers to start on a predictive analytics-based Asset Performance strategy without the need for complex modelling or data science. This solution allows the user to create easy-to-deploy models targeting specific assets, providing reliable anomaly detection with minimal configuration

AVEVA’s Cloud-First Strategy to Cater for Demands of the New Normal

From operating information analysis and low-code application development to complex engineering visualization, AVEVA Connect’s functionality allows easy trials for new capabilities. This will enable

customers to benefit from the latest, most innovative products available, all accessed via the cloud.

‘Cloud-First’ includes the introduction of scenario-driven integration between products for rapid time to value. Later this year, AVEVA will also introduce software development kits to enable partners to provide their solutions within the AVEVA Connect platform in order to increase the range of capabilities available to customers.

“The shift to the cloud isn't a matter of choice but something that must aggressively be pursued. The tremendous advantages of deployment and ownership costs, the ability to flexibly consume purely based on need and the removal of localized barriers to allow unprecedented levels of work efficiency and collaboration mean that we will continue to add to the rich domain content of our portfolio, because this is not just about technology, but about the realities and specifics of our customer’s business,” concluded Ravi Gopinath, Chief Cloud Officer and Chief Product Officer, AVEVA.

 [Click here to return to Contents](#)

Centric Software® Pioneers 3D PLM for Long-term Market Recovery

31 August 2020

Centric Software®, the Product Lifecycle Management (PLM) market leader, continues to innovate 3D PLM technology for an end-to-end PLM-connected 3D workflow that benefits brands and retailers as they strive to recover in an uncertain market and lay the foundation for strategic digital transformation. Centric Software provides the most innovative enterprise solutions to fashion, retail, footwear, outdoor, luxury and consumer goods companies to achieve strategic and operational digital transformation goals.

As businesses adjust to new innovative ways of working in a disrupted marketplace, new technology is required across the entire supply chain. Prior to COVID-19, 3D was emerging as a trend due to the numerous strategic and operational benefits it offers but now it is fast becoming a must-have. Centric 3D PLM empowers companies to rethink the way they do business now and into the future.

Brands need to react to trends faster and shorten product lifecycles. Heavy reliance on physical assets that are expensive, not easy to share, lengthy sample reviews, duplicated data entry across multiple systems and the limited applications of 2D images for feedback slow down operations and make automation difficult. Replacing physical samples with accurate 3D representations allows brands to reduce development timelines and become more sustainable.

“Brands need to transition from their existing physical workflow to a fully digital collaborative ecosystem to cut costs, reduce timelines, maintain business-critical operations amid restrictions and open new workstreams that leverage digital assets,” explains Ron Watson, VP Product Development at Centric Software.

“Centric PLM facilitates end-to-end 3D design and product development within PLM. It’s the only complete 3D PLM workflow on the market and enables our brands and retailers to use 3D assets for ideation, design and fit reviews, tech pack development, requests for quotation and co-creation with suppliers. We have applied key learnings from developing our Adobe® Illustrator Connect, which enables designers to work within their native environment while directly connected to Centric PLM. Similarly, our vision was to create the same seamless 3D workflow with leading 3D CAD software directly connect to Centric PLM so 3D assets are available throughout all stages of product development.”

Centric 3D Connect integrates with popular 3D design applications such as Browzwear, EFI Optitex and CLO.

“Users of Centric 3D Connect replace physical sample iterations with digital revisions,” says Watson. “This reduces waste and costs to make companies more sustainable and profitable. By integrating 3D digital assets that are updated in PLM in real time, users automatically push data changes downstream, saving considerable time and effort on manual data entry. Teams can share photo-realistic renders of products across multiple channels and collaborate efficiently with suppliers, using PLM as the platform to perfect digital product concepts, designs, and production details.”

Centric 3D PLM also features a unique 3D viewer that allows users to see the texture, drape and physics of materials and sample 3D designs, apply new colors or prints, take snapshots and mark up these images with comments in Centric’s canvas templates to provide immediate feedback to suppliers or design teams. 3D images can also be exported for marketing or e-commerce purposes. The 3D viewer allows everyone to interact with 3D objects at all stages of the supply chain workflow without placing extra demands on design and product development teams.

“We are proud to be the first PLM provider to develop a complete end-to-end 3D workflow within PLM,” says Chris Groves, President and CEO of Centric Software. “3D design and virtual sampling is the way of the future for companies who aim to shorten product lifecycles and need their teams to collaborate effectively without depending on physical samples and infrastructure. Centric’s 3D capabilities are an important contributor to market recovery for our customer-partners as they strategically rethink how to do business, now and in the long term.”

 [Click here to return to Contents](#)

DP Technology Announces New AI Capabilities on Flagship Product

02 September 2020

DP Technology, the parent company of the ESPRIT CAM system, has added patent-pending artificial intelligence (AI) capabilities to the software. This feature is result of four decades of innovation.

Today’s machine tools have extensive capabilities, but without the right software to drive them, it is difficult to realize their full benefits. Many factors determine the best software for a given shop, but perhaps the most important is its compatibility with the shop’s machine tools—the software’s ability to create machine-optimized, edit-free G-code the for the given machines.

Unlike machine tools, which remain relatively static throughout their lives, the right CAM software will be updated frequently as new innovations become available. That’s why it’s so important to partner with a CAM software company with a strong, long-term commitment to the market like ESPRIT. Led by a robust R&D team, the people behind ESPRIT are excited to embrace the possibilities of tomorrow. Making the right CAM choice can keep a shop on the leading edge of innovation for years to come.

The New ESPRIT is powered by a patent-pending AI engine to simplify the programming process for CNC operators and improve machine productivity on the shop floor. The result of nearly four decades of innovation, this exciting product rollout includes the following features:

Machine Swap

There are many different scenarios that might require a new program for a different machine: an inoperable machine, the need to increase production, moving from prototype to production, and more.

This feature uses an AI engine to automatically update your program any time you change the setup or swap the machine. It can also automatically detect setup changes without manual input. Many times, switching between short runs for small lot sizes and multi-part production runs for larger lots seems like it’s more trouble than it’s worth. But the AI machine awareness behind machine swap provides an extra

set of highly skilled eyes to reorganize the program, maximizing process concurrency across multiple parts and optimizing the total cycle time—regardless of the machine you’re running.

Automatic Links

Create your cutting cycle and let your AI-driven software create the fastest and safest positioning between tool operations with consideration of the limits of your specific machines. Think of automatic links as your software’s GPS. Just as your app can provide you with the fastest route (even avoiding tolls and freeways if you’d like), the link engine can “see” the best route to connect your machining processes. With automatic links, you can tell your machine what to prioritize and watch it go from there.

Simulation, Analysis, and Verification

These capabilities take the collision avoidance feature we mentioned earlier to a new level, generating a digital twin of the entire machining environment. You’ll be able to view a perfect model of your machine’s kinematics, reviewing the potential for collisions, axes overtravel, acceleration exceptions, and other conflicts before you make a single cut.

Machine Awareness for Automatic Program Generation

This feature allows users to define the process plan for a single workpiece independently of the machine and how the workpiece is set up. For example, select tooling—and the cutting strategy and AI automatically adapts, sequences, and optimizes the list of tasks to be performed before generating the job for the CNC machine.

Stock-Aware Toolpath

The right AI-driven software analyzes the real-time state of your stock, eliminating air cuts and minimizing repositioning. The result? There’s meaning behind each movement, leading to unparalleled efficiency and, often, significantly reduced cycle times.

Synchronization

Multichannel machines are especially useful because they can perform different actions concurrently. But with the wrong software, concurrent actions can set the stage for collision. An AI engine can automatically synchronize and sequence the program for optimal use of the capabilities of a multichannel machine.

Short-Run and Production Programs

Many times, switching between short runs for small lot sizes and multi-part production runs for larger lots seems like more trouble than it’s worth. But with AI machine awareness, you’ll have an extra set of eyes reorganizing the program, maximizing process concurrency across multiple parts and thereby optimizing the total cycle time.

Intelligent Work Coordinates

For tombstone, fixture, and work offset management, a high-quality AI engine can offer automatic selection of work offset and coordinate transformations based on its awareness of the job. The system determines local references for every local machining feature and activates the necessary machine functions including RTCP, tilted plane, and dynamic fixture offset.

Capturing Best Practices

Features such as ESPRIT’s KnowledgeBase™ eliminate the need for manual recall of your shop’s best machining practices. Instead, it stores them in the software itself, allowing any operator to access what they need at any time.

“Our AI engine represents a fundamental change in the way CNC machines are driven,” says Chuck Mathews, Chief Technology Officer for DP Technology. “The new ESPRIT CAM system's AI machine-aware algorithms provide an exceptional user experience—simplifying programming, increasing tool life, and improving machine performance.

With the right tools, automation in your shop can deliver what Industry 4.0 has long promised—highly efficient manufacturing that doesn't sacrifice safety for speed.

Is your job shop ready to embrace it?

 [Click here to return to Contents](#)

InfiPoints Supports CAD Modeling with Automatic Feature Extraction from Point-Cloud Data Scanned with UAVs and MMS

31 August 2020

Elysium has developed an advanced functionality to automatically extract piping and planar surfaces for building-information modeling (BIM) from scanners used by UAVs (Unmanned Aerial Vehicles, aka drones) and MMS (Mobile Mapping Systems)—in addition to currently supported feature extraction from tripod scanners. The new capability will be embedded in the latest version of Elysium's point-cloud utilization software, InfiPoints, released today.

Realizing Automated CAD Modeling Workflows with Scans from UAVs / MMS

Point-cloud scan using MMS (left) and automatically extracted planes using InfiPoints (right).

(Point cloud data source: Association for Promotion of Infrastructure Geospatial Information Distribution/Shizuoka Prefecture)

3D scanning has spread worldwide in the architecture, engineering, and construction (AEC) industries. Along with the tripod 3D laser scanner, large-scale sites such as chemical plants, bridges, and roads are using mobile scanning methods to capture the real environment for modeling, analysis, and archiving.

Wide-scale areas can be covered with a hybrid combination of various scanners. This is valuable but using mobile devices during the scanning process can limit information, such as the relationships between point-cloud data origin and the in-between points needed for complete data capture. This can result in time-consuming efforts for proper configuration of data, including registration and modeling of data from individual mobile scanners. Similar issues can be seen when capturing data from UAVs or photos.

Elysium has developed technology to complement any missing information in point-cloud data with InfiPoints' advanced processing capabilities—such as feature extraction of pipes and planar surfaces and automatic registration. This functionality allows users to accurately combine and perform registration between UAV/MMS-scanned point clouds and point-cloud data captured from tripod 3D laser scanners. The results are that the scope of efficient modeling using InfiPoints has broadened significantly from past standards.

Applications for Handheld Scanner Point Cloud Data

The new technology can be applied not only with UAVs and MMS, but also with handheld scanners that are often used for smaller-scale retrofitting and engineering. Backpack scanners and cart scanners used for narrow-area scanning can also be supported by this new functionality. Users of other point-cloud processing software may find that there are cases in which their exported point-cloud data does not retain the structured information contained in the scans. InfiPoints' new functionality allows users to

complement and then augment lost information so they can fully utilize InfiPoints' automatic processing technologies for improved feature extraction and registration.

Using this new Elysium functionality, users can add scan data from complementary scanning devices—such as a handheld scanner that has scanned a piece of equipment for replacement—and register that data as a complement to data already acquired from, say, an existing tripod scanner.

Automatic Texture Generation for More Efficient CAD Modeling Workflows

InfiPoints has the capability to generate CAD models from scanned point-cloud data and deliver that data to BIM software. The software originally exported CAD data as unicolor solid models. Elysium has now developed a new capability to generate a CAD model that includes texture from the point-cloud data color information. This will be a notable leap above exporting a monochromatic model, as it enables users to have a more realistic experience when working in BIM software's detailed design and modeling. Also, of significance, the modified data size is lighter compared to the original point cloud and suitable for use with presentations and discussions between partners and customers.

Monochromatic solid model view (left) of piping in an industrial facility, and CAD model, with texture from the point cloud color information, in the new version of InfiPoints (right).

“Using 3D laser scanning has become more and more common with the advancement of the technology and, while it was once a technology for early adopters, it is now expanding towards the early majority market,” says Atsuto Soma, CTO of Elysium. “The modes and tools to capture point clouds have grown and diversified, along with the needs of the users across many engineering applications. Elysium's newest InfiPoints enhancement for the BIM market demonstrates influential capabilities of automatic registration and feature extraction that deliver seamless use regardless of the hardware or point cloud capturing method.

“Some industries and users have hesitated in the past when faced with the heavy file size that point clouds generate,” Soma notes. “In contrast to photos that lack clear visibility, the new capability of InfiPoints to add textures should help bring down that barrier and further accelerate more widespread use of 3D laser scanning technology that takes advantage of the productivity benefits provided by InfiPoints.”

 [Click here to return to Contents](#)

Siemens Leverages Mendix to make Industrial Data accessible and actionable

04 September 2020

Siemens Digital Industries Software is leveraging the Mendix™ low-code application development platform to help customers across industries build contextual and personalized solutions and help enable data-driven decision-making processes. With the general availability of Mendix Data Hub and new Mendix for Industrial Edge services, Siemens can help customers achieve an end-to-end view of their plants, factories, and systems and provide domain experts with actionable insights through solutions that have been developed with the right data from across the organization. The Mendix platform extends the Xcelerator™ portfolio with the ability to build multi experience apps and share data from any location, on any device, on any cloud or platform, to more quickly realize the benefits of digital transformation.

“Our vision at Mendix is not only to offer our customers a technology to let them develop applications faster and more efficiently, but to also extend Siemens' Xcelerator portfolio to help realize unprecedented scalability and flexibility for our customers,” said Derek Roos, Mendix CEO. “As part of Siemens, we are expanding the Mendix platform to help provide value to our industrial customers by

enabling them to get value from their data, be that on a factory floor, across systems of record, or in a field service context.”

Enabling Data-Driven Decisioning on the Factory Floor

A key goal for digital transformation is factory automation, which can be slowed down by distance - both physical and organizational - between operational technology (OT) and organizations co-located at factory locations, and IT organizations housed at corporate headquarters. The new Mendix for Industrial Edge platform, announced today at Mendix World Version 2.0, empowers factory operators to create custom applications on the Mendix low-code platform that run locally as Edge Apps to collect data, have access to insights in near real-time and provide optimal user experiences to a variety of end users. The Mendix low-code platform is designed to abstract much of the complexities and expand the talent pool for IoT application development, further empowering OT leaders to address their most pressing issues with limited IT intervention. Business developers, domain engineers and plant operations staff can now create Apps for Siemens Industrial Edge without programming skills. When combined with Siemens' MindSphere®, the industrial IoT as a service solution from Siemens, and other Xcelerator cloud solutions, customers can quickly realize the benefits of a completely integrated edge to cloud experience.

Unlocking, Extending, and Personalizing Data from Core Systems

Disparate legacy systems, containing data in various formats and heritage that supports complex physical models can challenge companies in providing developers and engineers secure access to the right data. To help organizations discover, understand, use, and curate data from across the enterprise, and employ it in software development, business intelligence, and other data-rich applications, Siemens announced availability of the Mendix Data Hub. In conjunction with the Mendix low-code development platform, the Mendix Data Hub can help organizations realize a dramatic decrease in application delivery time, as developers no longer waste time searching for the right data, seeking the right data owner, minding API calls, and securing access to the data they need.

Initially, the Mendix Data Hub will connect to the most common industrial data sources, such as Teamcenter® software and SAP, with future releases expanding support for other common data services and databases, and industry-specific applications. The Mendix Data Hub can also be extended by eQ's eQube® Data-as-a-Service, as part of a newly expanded partnership between Siemens and eQ Technologic, with a rich set of over 60 smart connectors, providing support for industrial data and system integrations.

 [Click here to return to Contents](#)

Synopsys and Elektrobit Announce Availability of EB tresos Classic AUTOSAR Software for ARC Functional Safety Processor IP

01 September 2020

Synopsys, Inc. and Elektrobit (EB), a visionary global supplier of embedded and connected software products for the automotive industry, today announced availability of EB tresos Classic AUTOSAR software for Synopsys' ASIL-D compliant DesignWare® ARC® EM and ARC HS Functional Safety (FS) Processor IP. This version of the EB tresos AUTOSAR software used with the ARC Functional Safety processors provides a hardware-software platform that makes it easier for automotive semiconductor companies, OEMs, and Tier 1 suppliers to develop software applications based on the AUTOSAR standard. The combined solution accelerates time-to-market for the complex automotive electronic control units (ECUs) required for applications such as ADAS, infotainment, gateways, and

vehicle-to-everything (V2X) systems used in modern vehicles.

"Elektrobit has been active in the development of the AUTOSAR standard from its inception and continues to be a leader in AUTOSAR software and tools," said Artur Seidel, vice president for Americas at Elektrobit. "We are pleased to be the first automotive software company to collaborate with Synopsys on a software solution for its ARC Functional Safety processors, providing a turnkey approach that makes it quicker and easier for customers to develop automotive safety applications."

The ARC Functional Safety processors support ASIL B and ASIL D safety levels to simplify safety-critical automotive system on chip (SoC) development and accelerate ISO 26262 qualification. The complete portfolio includes the ARC EM22FS, HS4xFS, EV7xFS, and VPX5FS safety processors with integrated hardware safety features to detect system errors. The DesignWare ARC MetaWare Development Toolkit for Safety (EM22FS, HS4xFS) helps software developers accelerate the development of ISO 26262-compliant code. To accelerate early software development, Elektrobit supplies Classic AUTOSAR to the ARC EM Software Development Platform and the ARC HS4x/4xD Development Kit. A Microcontroller Abstraction Layer (MCAL), which abstracts the hardware devices, is available for each platform, allowing engineers to begin software development immediately. The ARC Functional Safety processor IP is developed based on the ISO 9001 certified Quality Management System (QMS) for Synopsys DesignWare IP supporting additional automotive quality requirements.

"Embedded processors used in advanced automotive applications must adhere to the highest safety standards and be developed with ISO 26262 compliance in mind," said John Koeter, senior vice president of marketing and strategy for IP at Synopsys. "Our collaboration with Elektrobit, a company known for its AUTOSAR expertise, to provide our ASIL ARC Functional Safety Processor IP with AUTOSAR OS support enables semiconductor vendors, Tier 1 suppliers, and car makers to accelerate software development and innovation for automotive applications."

 [Click here to return to Contents](#)

ZWCAD 2021: Faster and Smoother

03 September 2020

September 2, 2020 saw the official launch of ZWCAD 2021, the faster and smoother version of the powerful, reliable, and DWG-compatible CAD solution developed by ZWSOFT.

September 2, 2020 saw the official launch of ZWCAD 2021, the faster and smoother version of the powerful, reliable, and DWG-compatible CAD solution developed by ZWSOFT.

Less Wait Time, More Pleasing UI

The speed of ZWCAD is at its hitherto best thanks to the upgraded graphic engine. On average, file reading consumes 30% less time than the last one. Nevertheless, stability and display effects (even at 4K resolutions) are not compromised.

Xrefs, Easily Managed and Clipped

ZWCAD 2021 makes it much simpler to manage external references of various formats because you can preview files, check file information, etc. in one panel.

Likewise, clip-related commands like XClip have been integrated into CLIP for you to clip blocks, Xrefs, etc. Plus, you can scale clip boundary with grips and invert XClip.

Transparency, Adjustable for Distinguishing Objects

For a clearer view of overlapping design elements, you can now specify the transparency of objects,

references, etc. individually or collectively if they are in the same layer.

Different Layer Properties for Different Viewports

Since viewport layers are available, you can accentuate specific layer properties for each viewport. Furthermore, VpLayers can be quickly selected with filters and reset.

Quicker Calculations with Table and Field Formulas

Now, the value of table cells can easily be summed, averaged, etc. with formulas and mathematical expressions. Formulas are also available in the Field dialogue box. You can update the fields calculated with formulas using the REGEN command.

Of course, ZWCAD 2021 offers many more new features and improvements. For example, Visual Studio® has been upgraded to version 2017 and the .NET interface to 4.6.1 for easier porting of applications.

 [Click here to return to Contents](#)