

## Contents

<b>CIMdata News</b>	<b>2</b>
CIMdata to Host Free Webinar on Digitalization and PLM – The Next Big Thing or All Hype?	2
<b>Acquisitions</b>	<b>3</b>
AVEVA Acquires Rights to Shell’s Engineering Design and Productivity Software	3
Capgemini reinforces its global leadership in digital with the acquisition of customer engagement firm LiquidHub	4
One Equity Partners Acquires Rizing, a Leading SAP-Focused Systems Integrator	5
Siemens continues to invest in IC industry with planned acquisition of Sarokal Test Systems	6
<b>Company News</b>	<b>7</b>
Accenture Earns Four Partner Excellence Awards from SAP in Recognition of its Leading Capabilities in Digital and Cloud	7
Accenture Expands Industry X.0 Innovation Network with Opening of IIoT Innovation Center in Modena, Italy	8
Accenture Opens Liquid Studio in Madrid to Transform Digital Businesses with Rapid Application Development	10
CGTech Celebrates 30-Year Milestone	11
Converge Announces Launch of Company that Enables Leading Edge Product Development Environment by Leveraging the Cloud	11
Go2Group and CloudBees Partner to Bring DevOps Solutions Closer to Enterprises Around the Globe	13
HP Inc. and Dassault Systèmes Collaborate to Unleash the Next Generation of 3D Design Innovation for Additive Manufacturing	14
SOLIDCAM UK is set to open a new Technology Centre which will deliver technology transfer and be a driver for growth	15
Stratasys Teams with Dassault Systèmes and Industry Visionary Easton LaChappelle for Major 3D Printing, Prosthetics Initiative	17
Tech Mahindra, OutSystems Join Hands to Bring Low-Code App Development into New Regions and Industries	18
<b>Events News</b>	<b>19</b>
CGTech to showcase VERICUT Composites Applications software at JEC	19
EXENTA to Showcase Innovations in Fashion Technology, Discuss Blockchain at PI Apparel LA	20
Minerva is official sponsor of PI PLMx Hamburg 2018	20
Siemens PLM Connection – Americas will transition to Siemens from PLM World	21
<b>Financial News</b>	<b>21</b>
Renesas Electronics Reports Full Year 2017 Financial Results	21
Synopsys Announces Earnings Release Date for First Quarter Fiscal Year 2018	22
<b>Implementation Investments</b>	<b>22</b>
Sysmex America Expands Use of ThingWorx Platform to Transform the Patient Experience	22
Woolworths Chooses Centric Software PLM	23
<b>Product News</b>	<b>24</b>
Announcing SIMSOLID Cloud	24
BOXX Demos World’s Fastest SOLIDWORKS Workstation at SOLIDWORKS World 2018	25
DXC Technology Launches Agile Process Automation to Transform Business Processes with Data	

# CIMdata PLM Industry Summary

---

Discovery Robotics	26
HOOPS Visualize 2018 SDK Supercharges AR/VR Development using CAD Data; Supports Point Cloud Visualization and an Ever-Growing List of Integrations and Platforms	27
Latest Open Release of the Aras PLM Platform Simplifies Variant Management for Manufacturers	28
Luxion Announces Motion Study Support with New Release of KeyShot for SOLIDWORKS	29
Meta Announces New Augmented Reality Integration with SOLIDWORKS	30
Nano Dimension Partners with Dassault Systèmes' SOLIDWORKS Brand to Expand 3D Printing Possibilities with Add-in for Embedded Electronics	31
NEC Ensures Communications Speed for Self-Driving Automobiles	33
New View Management Application for Autodesk Revit Users	34
Rize Inc. Grows Partnership with Dassault Systèmes' SOLIDWORKS	35
Siemens' new Digital Enterprise Industry Solution for electronics addresses software complexity in connected smart products	35
SOLIDWORKS Users Free to Create More Shapes, More Ways with New 3DXpert™ for SOLIDWORKS®	37

---

## CIMdata News

### ***CIMdata to Host Free Webinar on Digitalization and PLM – The Next Big Thing or All Hype?***

6 February 2018

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces an upcoming free educational webinar, “Digitalization and PLM – The Next Big Thing or All Hype?” The webinar will take place on Thursday, March 8, 2018 at 11:00 a.m. (EST) and will last for one hour.

There is real energy behind the idea of digitalization, with many companies embracing the concept and beginning to invest heavily. Whether digitalization lives up to its promise may all come down to proper positioning and execution. The results from a CIMdata survey, conducted in late 2017, reveal that many of the companies aggressively pursuing a digitalization strategy do not have a good understanding of the interrelationship with and the importance of PLM.

During this webinar, we will explore the results and implications of that survey and ask webinar attendees to share their perspectives and experiences. With real-time polling and open microphone segments we will orchestrate a dialogue within the PLM community, contributing to a deeper understanding of current perceptions and promoting recognition of PLM as a key pre-requisite platform for digitalization.

According to the webinar host, CIMdata’s Director for Aerospace & Defense, James Roche, “While it is clear to most within the PLM community that PLM is foundational to a meaningful digitalization strategy, it is apparent that this truth is not understood by senior leadership within many companies.”

Mr. Roche has over 30 years of experience in transformation and IT enablement of product development and manufacturing processes. He has been a strategic advisor and program manager for PLM programs across the United States, Europe, and Asia. Before joining CIMdata Mr. Roche was a PLM Practice Manager at CSC Consulting and at A.T. Kearney. He was also at EDS, where served as the chief architect for General Motors’ worldwide engineering systems and as head technical negotiator for strategic supplier contracts.

# CIMdata PLM Industry Summary

---

For this webinar, Mr. Roche will be joined by CIMdata's Vice President, Stan Przybylinski. Mr. Przybylinski has over 30 years of experience in the development of business-enabling IT solutions for research, engineering, and manufacturing organizations worldwide. He has been directly involved with selection, consulting, integration, and implementation of large-scale PLM solutions, and has worked on projects for both PLM solution suppliers and end-user organizations in the automotive, aerospace, consumer packaged goods, high-tech, and medical device industries.

The webinar will be useful to PLM team leaders, PLM team members, PLM users, PLM project managers, PLM program planners, PLM solution architects, digitalization program and project managers, digitalization program planners, digitalization solution architects, corporate strategic planners, corporate IT planners, solution and service providers, and anyone who wants to learn more about digitalization in the context of PLM.

During the webinar attendees will have the opportunity to ask questions about the topics discussed. To find out more, visit: <https://www.cimdata.com/en/education/educational-webinars/webinar-digitalization-and-plm-the-next-big-thing-or-all-hype>. To register for this webinar please visit: <https://attendee.gotowebinar.com/register/838425281808320513>.

## About CIMdata

CIMdata, a leading independent worldwide firm, provides strategic management consulting to maximize an enterprise's ability to design and deliver innovative products and services through the application of Product Lifecycle Management (PLM) solutions. Since its founding in 1983, CIMdata has delivered world-class knowledge, expertise, and best-practice methods on PLM solutions. These solutions incorporate both business processes and a wide-ranging set of PLM-enabling technologies.

CIMdata works with both industrial organizations and providers of technologies and services seeking competitive advantage in the global economy. In addition to consulting, CIMdata conducts research, provides PLM-focused subscription services, and produces several commercial publications. The company also provides industry education through PLM certificate programs, seminars, and conferences worldwide. CIMdata serves clients around the world from offices in North America, Europe, and Asia-Pacific. To learn more about CIMdata's services, visit our website at [www.CIMdata.com](http://www.CIMdata.com), follow us on Twitter: <http://twitter.com/CIMdataPLMNews>, or contact CIMdata at: 3909 Research Park Drive, Ann Arbor, MI 48108, USA, Tel: +1 734.668.9922. Fax: +1 734.668.1957; or at Oogststraat 20, 6004 CV Weert, The Netherlands, Tel: +31 (0) 495.533.666.

 [Click here to return to Contents](#)

## Acquisitions

### *AVEVA Acquires Rights to Shell's Engineering Design and Productivity Software*

8 February 2018

Today, AVEVA acquired the intellectual property rights to the engineering design database and design productivity software known as EDD and PDMSi, developed by Shell International Exploration and Production Inc., a member of the Royal Dutch Shell plc group. The EDD solution tool has been

# CIMdata PLM Industry Summary

---

developed by Shell to improve project efficiency by automating design processes, that would lead to time and cost savings. The PDMSi application layer has been proven to reduce drawing production time by up to 85% on past Shell Deepwater projects.

AVEVA, the global engineering, design and information management software specialist, headquartered in Cambridge, UK, was the first to pioneer the concept of the digital asset. Today's agreement sees the company draw on its 3D visualisation and digital data management expertise to further enhance the software both for Shell and other operators.

Signing the agreement at Shell's offices, Houston, Bert Natalicchio, VP Engineering & SMART, Shell said: 'Collaboration between world-class companies is crucial if we are to drive innovation in the oil and gas sector and create a safer and more efficient industry. AVEVA's entire software portfolio can be used by EPCs on Shell Capital and Operational projects and may be used within the Shell ProjectVantage ecosystem platform'.

AVEVA will extend the EDD and PDMSi improvements and efficiency gains into its standard software portfolio to be made available to every plant operator and the engineering, procurement and contracting (EPC) companies that serve them. This software is applicable across a number of engineering industries including oil and gas and marine to pharmaceuticals, chemicals, power, mining and pulp and paper.

Shell and AVEVA have been at the forefront of digital innovations for decades, collaborating on the research and development of state-of-the-art 3D design solutions and intelligent visualisation software to create, manage and maintain physical assets. AVEVA's vision is that for every physical asset, there should be a Digital Asset or Digital Twin. Such Digital Twins help improve the concerned assets operating efficiency by improving data quality and consistency throughout the asset life cycle.

Steen Lomholt-Thomsen, Chief Revenue Officer, AVEVA said: 'AVEVA has enjoyed a strong business relationship with Shell. The majority of Shell's upstream offshore and downstream operating assets were designed using AVEVA technology. Now, we are building on our strong foundations of proven project success and increased operational efficiency by extending our shared capabilities further still.'

The advances achieved by Shell in utilizing EDD and PDMSi may now be offered to other owner operators who want to explore how digitalisation can help their teams operate efficiently.

 [Click here to return to Contents](#)

## ***Capgemini reinforces its global leadership in digital with the acquisition of customer engagement firm LiquidHub***

5 February 2018

[Capgemini](#) announced today the acquisition of [LiquidHub](#), a digital customer engagement firm that specializes in developing and delivering compelling customer experiences. This acquisition will reinforce Capgemini's Digital Consulting capabilities in North America and accelerates its portfolio shift in the region.

Established in 2000, LiquidHub counts industry leaders among its clients notably in financial services, healthcare and life sciences. Through this acquisition seasoned design thinkers, user-experience designers, digital architects and analytics specialists will join Capgemini's digital teams to create, for its clients, experiences that help to attract, acquire and retain customers.

# CIMdata PLM Industry Summary

---

Headquartered in Philadelphia, USA, with estimated 2017 revenues of around 200 million euros, this latest addition to the Group is totally aligned with Capgemini's growth plans focusing on Digital & Cloud in North America. Also, with an acquisition price of around two times revenues it illustrates the ability of the Group to execute its stated objective (1) of targeted bolt-on acquisitions contributing up to 2% of incremental revenue, while allocating around 50% of its free cash-flow generation to acquisitions.

“LiquidHub's passion to help clients uncover new ways to engage with their customers, supported by robust digital expertise and a strong track record in complex technology execution, was a natural fit with the end to end digital services that Capgemini provides enterprises around the world,” comments Paul Hermelin, Chairman and CEO, Capgemini Group. “The team's customer centric mindset was evident, and its impressive employee retention record is a testament to the strength of LiquidHub's purpose, vision and values that are complementary to those of Capgemini. I'm delighted to welcome them to the Group.”

By leveraging its industry knowledge and extensive client experience LiquidHub has developed a series of marketing, sales, commerce, and service solutions across the entire engagement lifecycle. It has also built a set of highly scalable platforms-as-a-service for complete customer management. For example, its Speciality Pharma Insights Platform aligns interactions across channels to provide a more seamless experience for patients, healthcare providers and other channel partners, in the pharmaceutical industry; its Customer Acquisition Platform delivers seamless, secure digital customer engagement for clients in regulated industries through web, mobile and other digital channels.

“The challenge of omni-channel is connecting all the parts and pieces to deliver a unified and pleasurable experience to your customers. It's not physical or digital; it's the blended experience,” comments Jonathan Brassington, CEO and Co-Founder, LiquidHub. “The full spectrum of Capgemini's digital transformation solutions and services coupled with its global reach will allow us to augment and expand our offerings for our current and future clients around the world: a very exciting prospect for the entire LiquidHub team.”

The transaction is due to close in the next couple of months.

 [Click here to return to Contents](#)

## ***One Equity Partners Acquires Rizing, a Leading SAP-Focused Systems Integrator***

24 January 2018

One Equity Partners ("OEP"), a leading middle market private equity firm, today announced the completion of its acquisition of all the operating subsidiaries of Rizing, LLC ("Rizing"), a leading SAP-focused provider of IT systems integration and implementation services.

Operating through its Vesta Partners and /N SPRO divisions, Rizing provides specialized IT consulting services to leading global customers that rely on SAP enterprise software to run and manage their businesses. Founded in 2003, Rizing and its skilled broad base of consultants are specialized in value-added products and industry verticals within the SAP ecosystem, including enterprise asset management, human capital management and solutions for companies in the retail and consumer industries segments. Rizing operates from 14 regional offices in the U.S., Canada, the Netherlands, United Arab Emirates, Singapore, Malaysia and Australia.

OEP has extensive experience supporting the growth of IT services and enterprise software businesses.

## CIMdata PLM Industry Summary

---

"We are excited about the SAP ecosystem and its strong growth trends. Rizing has positioned itself as a strategic partner to SAP in its core segments and is a trusted partner of many leading companies to support their technology initiatives," said Carlo Padovano, Managing Director, OEP. "The expansion of SAP S/4 HANA and its integration with strategically acquired cloud offerings such as SuccessFactors, Ariba, Hybris, Fieldglass and Concur, deliver significant value to customers, and SAP's 'systems of innovation' tools allow customers to leverage next generation technology in big data, analytics, IoT, and machine learning. Rizing is a key partner to its customers in SAP implementations."

This investment is another instance in a long history in which OEP has partnered with founders and managers with ambitious growth plans based on both organic and inorganic opportunities. "OEP believes Rizing has assembled an impressive management team, led by Mike Maiolo, CEO of Rizing," said Padovano. "The team has deep expertise in implementing and integrating SAP solutions for blue chip customers, and we are enthusiastic that they invested alongside us and lead the next growth phase. OEP will complement their operating expertise with our own experience driving strategic and synergistic combinations."

"OEP has an excellent reputation for driving transformative growth in the businesses in which it invests, and the firm shares our vision for expanding Rizing's service offerings to a greater number of SAP practices and further developing select IP offerings that complement our existing services," stated Maiolo. "OEP is the ideal partner to help us to expand both our geographic and vertical footprint internationally where we have identified compelling organic and inorganic growth opportunities."

Rizing's customers include leading businesses in North America, Europe and around the world across diverse vertical markets including energy and utilities, consumer products, financial services, retail, transportation and other industries.

 [Click here to return to Contents](#)

### ***Siemens continues to invest in IC industry with planned acquisition of Sarokal Test Systems***

7 February 2018

Siemens today announced it has entered into an agreement to acquire Oulu, Finland-based Sarokal Test Systems Oy, a provider of innovative test solutions for fronthaul networks that are comprised of links between the centralized radio controllers and the radio heads (or masts) at the "edge" of a cellular network. Sarokal products are used by chipset vendors, fronthaul equipment manufacturers, and telecom operators to develop, test and verify their 4G and 5G network devices from the early design stages through implementation and field-testing.

"The planned acquisition of Sarokal reinforces our ongoing commitment to EDA and the IC industry," said Tony Hemmelgarn, president and CEO of Siemens PLM Software. "Building on our acquisition of Mentor Graphics, we continue to make strategic investments which leverage Mentor's existing strengths and enable Siemens to expand its offerings to the IC industry."

Sarokal's products are used to test transmission specifications across multiple domains. Its tester product family addresses the entire development and maintenance flow for cellular and wired transmission system testing. The technology is especially designed to detect radio frequency (RF) problems. With Sarokal's foresight into the requirements of 5G testing, their testing models were created from the beginning for both the virtual (digitalization) environment as well as the physical testing environment.

"Sarokal has been on the forefront of the development of the 5G specification and its requirements for fronthaul networks since its inception. The 5G specification aims to greatly enhance performance for mobile broadband, network operation and Internet of Things (IoT) communication, and this requires new test methodologies," said Harri Valasma, CEO at Sarokal. "Becoming part of Siemens and integrating our technology into the Veloce emulation platform will give us greater visibility into early customer adoption of 5G, which can help us maintain our leadership as this segment is forecasted to grow rapidly."

"The addition of Sarokal's one-of-a-kind fronthaul testing expertise is expected to provide our Veloce emulator customers with a unique advantage," said Eric Selosse, vice president and general manager, Mentor Emulation Division, a Siemens business. "Sarokal's tester technology in conjunction with Mentor's Veloce emulation platform will enable customers to "shift left" the validation of 4G and 5G designs for accurate and timely pre- and post-silicon testing."

The transaction is expected to close during the first quarter of calendar 2018, subject to receipt of regulatory approvals and other customary closing conditions. The terms of the transaction were not disclosed.

[!\[\]\(9dfdaff1d86ba3c1f8353b4d1b61b8c5\_img.jpg\) Click here to return to Contents](#)

## Company News

### ***Accenture Earns Four Partner Excellence Awards from SAP in Recognition of its Leading Capabilities in Digital and Cloud***

6 February 2018

In an acknowledgement of its leading capabilities in digital and cloud, Accenture has received four SAP® Partner Excellence Awards, which recognize top-performing alliance partners that have made outstanding contributions to driving customers' digital transformation. Partnering with SAP, recipients of this year's awards have been helping customers benefit from new innovations, gain results rapidly, grow sustainably and run more simply with SAP solutions. Accenture won the following awards, which were presented at regional SAP Field Kick-Off Meetings in Las Vegas, Sydney and Barcelona:

- SAP North America Partner Excellence Award 2018 for SAP Hybris Solutions
- SAP APJ Partner Excellence Award 2018 for Most Innovative Digital Transformation Success Story
- SAP EMEA/MEE Partner Excellence Award 2018 for Digital Transformation
- SAP EMEA/MEE Partner Excellence Award 2018 for Cloud

"Digital technologies are changing everything, and the opportunity to drive the intelligent revolution with data-driven insights and innovative technologies has never been greater. Our long-time collaboration with SAP has consistently demonstrated that with a strong technology foundation and unparalleled industry expertise, we can help clients achieve incredible speed to value and gain competitive advantage," said Christophe Mouille, senior managing director and Global SAP practice lead at Accenture. "These awards are testament to our commitment to creating intelligent enterprises, maximizing business outcomes and delivering new growth by bringing together industry-specific

# CIMdata PLM Industry Summary

---

business processes and data, underpinned by innovative SAP technology.”

The SAP APJ Partner Excellence Award 2018 for Most Innovative Digital Transformation Success was presented to Accenture based on work completed with Orica, an Australian-based multinational corporation that is the world’s largest provider of commercial explosives and blasting systems. Orica turned to Accenture to help install a single SAP platform in the cloud, including SAP S/4HANA®, SAP Ariba®, SAP SuccessFactors®, SAP Concur® and SAP Fieldglass® solutions.

“The SAP Partner Excellence Awards exemplify the shared purpose, commitment and success that allow our partners, together with SAP, to deliver value to our customers on an ongoing basis,” said Rodolpho Cardenuto, President, Global Channels & General Business, SAP. “To that end, I am pleased and honored to recognize and congratulate Accenture as the recipient of four regional awards. We look forward to continuing to work closely together with Accenture to realize even greater success in 2018.”

Selected from SAP’s wide-ranging partner base, nominations for the SAP Partner Excellence Awards were based on internal SAP sales data. A steering committee composed of regional and global SAP representatives determined winning partners in each category according to numerous criteria such as sales achievement and performance. Awards were presented in a variety of categories, including overall sales, innovation, technology, services and solution-specific areas.

Accenture and SAP have a successful, 40-year long strategic alliance that provides clients with practical strategies and solutions to tackle critical business issues. Collaborations around the core development and go-to-market for both [SAP S/4HANA](#) and [SAP Leonardo](#) are helping clients in all industries fast-track their journey to becoming digital businesses.

 [Click here to return to Contents](#)

## ***Accenture Expands Industry X.0 Innovation Network with Opening of IIoT Innovation Center in Modena, Italy***

8 February 2018

Accenture is expanding its [Industry X.0 Innovation Network](#) in Europe with the opening of an industrial internet of things (IIoT) Innovation Center in Modena. The center will offer clients a way to explore, test and scale IIoT solutions and take advantage of the latest disruptive technologies to achieve new levels of efficiency and sources of growth through improvements in product development, engineering, manufacturing, customer experiences and cybersecurity.

The new facility is part of an extensive US\$1.4 billion investment program by Accenture to expand its Industry X.0 business. Industry X.0 is how Accenture describes the profound shift of industrial manufacturing to digital products and services that will increasingly require new manufacturing methods and processes to produce and deliver them as well as support them in the field.

The IIoT Innovation Center in Modena is being established in collaboration with HPE COXA, a Modena-based company specializing in engineering activities for the automotive, motorsport and automation solutions sector; HPE COXA collaborates with key players from these industries, both locally and worldwide. The company specializes in mechanical metalworking technologies and recently established a new research center for additional metal technologies; more than two-thirds of the

# CIMdata PLM Industry Summary

---

company's 250 employees are engineers.

Accenture's expanded innovation network is bolstering the company's industry digitization capabilities and strengthening its presence in the world's leading manufacturing markets. The network includes an [innovation center in Garching, Germany](#), with a new center to open in North America this year. Clients who use the Modena location will be given access to a range of capabilities, including innovation workshops for industrial design thinking; IIoT experience areas for tech showcases; and regional ecosystems that connect clients with key technology partners, research firms and industrial start-ups.

"At the new Innovation Center in Modena, clients will be given direct access to fully working examples of the latest in manufacturing techniques for digitized products," said Aidan Quilligan, a managing director at Accenture and global lead of its Industry X.0 practice. "In the new Innovation Center, we showcase technologies that can help companies develop solutions to meet their business challenges and gain a competitive advantage. Working with our experts at the center, clients can experience a hands-on, systematic approach to innovating that can help them accelerate their efforts, reduce costs, and gain greater insight into growth opportunities in today's digital-first marketplace."

Fabio Benasso, president and CEO of Accenture Italy, said, "One Accenture focus in Italy is to invest in capabilities that reward clients' ability to innovate in what is the second-largest manufacturing country of the EU. The Modena location will be a key element in our continuing efforts to support companies as they accelerate their digital transformation agendas, enabling them to experiment with and develop solutions that can significantly influence the evolution of business models, products and customer experiences."

Clients visiting the center will be able to explore key IoT technologies and processes to digitize their business for greater efficiency and growth. Among these are:

- Applying manufacturing analytics and predictive maintenance, and analyzing data produced by IoT sensors via cloud and big data;
- IIoT- and software-enabled management of connected businesses, plants, machinery and equipment;
- "[Connected Industrial Worker](#)" solutions to enhance operational safety, effectiveness and efficiency;
- "[Industrial Consumerism](#)" and how to digitize the industrial customer experience in a business-to-business environment;
- [Innovating](#) new products, services, solutions and business models using customer-insight- driven approaches and design thinking;
- Digital engineering and industrial product development, and how to better integrate product- and application-lifecycle-management [capabilities]; and
- Transformational ideas for loading operations through real-time analytics

A global evaluation of [11 digital technologies across eight leading industries](#) by Accenture has revealed that the optimum combination of new technologies could generate an average potential increase in market capitalization of US\$6.07 billion if businesses invest wisely, using an Industry X.0 approach.

From this global data, Accenture developed, "Industry X.0 – The digital reinvention of Italian industry,"

# CIMdata PLM Industry Summary

---

a national report that indicates that companies in Italy recognize the importance of adopting this new industrial model, which can enable them to develop products and innovative services through the use of new technologies. Proof of this is provided by the approximately US\$4 billion that Italian companies invested in IoT technologies in 2017, ranking Italy second in Europe, after Germany, according to research firm IDC1.

The Accenture study shows that, although Italian executives consider the development of innovative products and services a strategic priority, less than a third of the companies surveyed expect that an investment in digital technologies will lead to an increase in the number of customers. At the same time, more than half of large companies and around half of small and medium-sized enterprises fear that a delay in innovation will put their survival at risk in the future. Italian managers are engaged in the process of rethinking their strategic priorities, a key part of which involves experimenting with transformational operating and business models capable of generating incremental value.

“Thanks to our location in the heart of the Motor Valley and surrounded by automation solutions providers, we have been able to develop special relationships with the key players in the area, as well as with major global manufacturers in these industries,” said Andrea Bozzoli, CEO of HPE COXA. “The company's agility and our fully integrated approach to product development, within a highly complex technological environment, make our company the perfect testbed for innovative solutions that, once validated, can be transferred to larger-scale applications. The Machining Innovation Lab, the Metal Additive Research Center and the Engine Testing Center are tangible evidence of this approach. Inclusion in Accenture’s IOT Innovation Network represents an important step along this path”.

 [Click here to return to Contents](#)

## ***Accenture Opens Liquid Studio in Madrid to Transform Digital Businesses with Rapid Application Development***

7 February 2018

Accenture has opened a Liquid Studio in Madrid to help clients speed up innovation and software deployment cycles. At the Liquid Studio, clients work side-by-side with highly skilled Accenture professionals, building innovative solutions with speed and agility and taking days or weeks to achieve what used to take months.

To accomplish this, Liquid Studio teams are grouped in highly interconnected pods, working with contemporary development approaches such as Agile methodologies powered by DevOps, and disruptive technologies including artificial intelligence, augmented reality, blockchain and cloud.

The Accenture Liquid Studio in Madrid collaborates with the Avanade Innovation Center in Barcelona to develop new solutions based on Microsoft technologies, as well as with other Liquid Studio locations and ecosystem alliance partners.

“With our new Liquid Studio, we are able to bring the latest technologies to our clients, creating a startup-like environment to co-create and prototype new solutions with them. Through our highly specialized teams, we are now able to deliver and implement solutions in a very short period of time and, therefore, impact in our clients’ businesses in a very positive way,” said Adán Plaza, senior managing director, Accenture Technology Iberia.

“The new Liquid Studio reflects our commitment to deliver even more innovation to our clients,” said Juan Pedro Moreno, country managing director of Accenture in Spain, Portugal and Israel. “Accenture is

# CIMdata PLM Industry Summary

---

making significant investments to help our clients accelerate their digital transformation and achieve greater business value more quickly and easily.”

The Liquid Studio in Madrid further expands Accenture’s digital capabilities in Spain, and follows the opening of the Accenture Digital Hub in Madrid in June 2017, located in Torre Picasso.

Accenture Liquid Studios are an integral part of the [Accenture Innovation Architecture](#), which brings together capabilities – from research, ventures and labs to studios, innovation centers and delivery centers – to develop and deliver disruptive innovations for clients, and to scale them faster.

 [Click here to return to Contents](#)

## ***CGTech Celebrates 30-Year Milestone***

7 February 2018

CGTech is proud to celebrate three decades of innovation and consistent growth. Headquartered in Irvine, California, with 10 wholly-owned subsidiaries to support customers worldwide, the company is releasing new CNC simulation and optimization technologies faster than ever before.

“CGTech may have started 30 years ago, but we continue coming out with new products while enhancing our core capabilities,” said CGTech’s President Jon Prun. “VERICUT development is driven by our customers’ needs, and we always encourage input from users and partners. We host nearly 50 free VERICUT user group meetings worldwide each year to gather valuable customer feedback.”

CGTech began when Prun recognized a need to verify NC tool path programs without wasting valuable CNC machining time on a prove-out part. VERICUT software was the world’s first widely available, productive method to test NC machine tool paths in an offline virtual reality environment. VERICUT revolutionized NC program verification by simulating material removal using a three-dimensional solid model.

VERICUT products are developed in-house by a large team of CGTech software engineers who have many years of experience in the mechanical CAD/CAM industry. Over the years enhancements have been added to support complex multi-axis kinematics, reduce machine tool cycle times, increase tool life, and simulate the additive capabilities of hybrid CNC machines. CGTech also develops several software products for companies utilizing automated composite machinery, along with drilling and fastening machines used for airframe assembly.

The company has been on a hiring spree in recent years to keep up with the demands of its customers, which consists of thousands of companies in virtually every manufacturing industry and every major aerospace and automotive company. Direct offices are located in the United Kingdom, France, Germany, Italy, Japan, China, Singapore, India, Brazil, and Korea.

 [Click here to return to Contents](#)

## ***Converge Announces Launch of Company that Enables Leading Edge Product Development Environment by Leveraging the Cloud***

6 February 2018

# CIMdata PLM Industry Summary

---

Today Converge formally announces they are open for business while attending SOLIDWORKS World 2018. Converge provides services and products that enable an ideal product development environment for increased productivity and reduced costs. Converge offers the complete line of SOLIDWORKS solutions and an extensive set of value-added products and services based on cloud computing.

Cloud computing offers a new way for engineering and manufacturing companies to develop products, allowing them to focus on design instead of IT infrastructure. Converge embraces the cloud, while also understanding there is a place for on-premise computing. Converge combines SOLIDWORKS products with a host of other services and solutions providing a menu of options for optimizing a company's product development environment. The solution set empowers remote workers, enables seamless collaboration, provides on-demand scaling, removes IT admin burdens, and eliminates the need for technology refreshes. The complete solution creates a powerful product development environment that will save money and help achieve better business outcomes. Converge is a new company, built on the shoulders of three existing companies: SolidBox (hardware), EpiGrid (cloud services) and Edge Innovative Solutions (engineering/design services). Each of these companies are certified SOLIDWORKS partners, and they have a proven record of delivering solutions to thousands of engineering and manufacturing companies.

"Empowering product development is our focus," said Chris Castle, CEO of Converge. "The best way to explain Converge is to hear from one of our customers, Clear Automation."

**CUSTOMER:** Clear Automation, a leading robotic systems integrator specializing in flexible industrial automation techniques.

Clear Automation, had the following business and technical needs for their product development environment:

- Seamless remote work for stakeholders
- Reliable and secure IT infrastructure managed by someone else
- On-demand engineering resources to supplement in-house development
- Reduce IT costs including admin, server and workstation refreshes

"Our capability to deliver innovative and custom designs to our customers is the key to our success, not IT," said Franco DeBlasio, CEO of Clear Automation. "I found we were spending too much effort, time and money managing our IT infrastructure, and still it was not flexible enough to meet my business needs and was zero value-add. So, I began my search for a new and different alternative. My search lead me first to EpiGrid, who then engaged SolidBox and Edge. By using products and solutions from all three of these companies, I was able to address all of my needs. I am very glad that Converge has been formed and I am happy to report that I am one of their first customers."

## Three Pillars of Converge

Three companies have joined together to form Converge.

### EpiGrid

"EpiGrid has been putting users in the cloud for years with virtual engineering workstations connected to PDM," said Chad Garrish, CEO, and founder of EpiGrid, and Converge COO. "We enable people to work from anywhere, on just about any device. We manage all of their IT and just make it work. And different than on-premise, we can reconfigure on demand including GPUs and processing cores."

# CIMdata PLM Industry Summary

---

## SolidBox

"SolidBox sells and manages on-premise workstations and servers for mechanical design and engineering. We are Dell's largest mechanical engineering workstation reseller," said Joel Sears, CEO of SolidBox. "For the foreseeable future, on-premise computing will be part of the computing mix, and for many companies, a hybrid approach of on-premise and cloud will be the best fit. With SolidBox as a delivery partner, we will be able to deliver the best combination of computing power for a customer."

## Edge Innovative Solutions

"Edge Innovative Solutions provides design and engineering services," said Chad Garrish, CEO, and founder of Edge. "We have found that companies need to supplement their in-house engineering staff often. Sometimes we free up time of their critical resources. Other times we provide expertise our customers do not have in-house. Either way, we are ready to provide these services on-demand."

Converge Offers a New SOLIDWORKS Reseller Experience with a Focus on Services. The Converge mission is to work with customers to deploy the most ideal product development environment available.

Work Different in order to Work Better. Converge offers the following products and services:

- **SOLIDWORKS Sales and Support:** SOLIDWORKS experts with real-world experience.
- **Engineering Workstations, Virtual and On-Premise:** Cloud-computing VDIs for SOLIDWORKS; scale users, scale capabilities, access from anywhere. We are also Dell's largest MCAD workstation reseller. We do a hybrid approach, cloud and on-premise, and we will work with you to determine the right strategy.
- **PDM Implementation & CAD/PDM Administration:** Proprietary implementation methodology provides engineering best practices and workflows in as little as a week, with immediate return on investment. Professional remote management services, both IT and application-specific, across the entire SOLIDWORKS product line.
- **Design & Engineering Services:** A pool of licensed Professional Engineers and certified SOLIDWORKS Experts & Professionals employ practical, real-world experience from the trenches to augment customer projects on demand.
- **Training:** Our approach is unique. We deliver virtual, live SOLIDWORKS training with your models and PDM environment

Visit Us at SOLIDWORKS World

See us in the Product Showcase where we are showing off a camper, mountain bike and motorcycle all designed in SOLIDWORKS.

 [Click here to return to Contents](#)

## ***Go2Group and CloudBees Partner to Bring DevOps Solutions Closer to Enterprises Around the Globe***

5 February 2018

Go2Group – global provider of IT delivery solutions and DevOps implementation products and services – announced today a collaboration with CloudBees® – the hub of enterprise Jenkins® and DevOps. This collaboration will accelerate the adoption of DevOps and assist customers around the globe to achieve

# CIMdata PLM Industry Summary

---

DevOps business goals faster. The alliance will provide support and security for enterprises looking for the right mix of tools, strategies, and integrated teams for DevOps initiatives.

With 2018 projected as "the year of enterprise DevOps," and organizations – including federal agencies – are under tremendous pressure to deliver high-velocity and quality software, increase standardization, and implement best practices. Adopting DevOps practices and utilizing automation technology are key to achieving these goals. Customers seeking an enterprise DevOps solution, such as that offered by CloudBees, can now subscribe to the CloudBees offering from Go2Group. In addition to the CloudBees Jenkins Enterprise™ platform, customers now have an avenue to explore Go2Group's offerings in DevOps consulting and training, DevSecOps, integration, cloud hosting, and more. Leveraging the combined strengths of Cloudbees and Go2Group, enterprises can jumpstart their DevOps transformation and tap into Go2Group's proven track record in DevOps implementation.

Go2Group, recognized as a Vista Channel Partner, is a new addition to the CloudBees Elevate Channel Partner Program, which was revamped in 2017 to include new tracks for resellers and training partners. The Vista Channel Partner tier highlights Cloudbees solutions partners with extensive and proven experience in deploying solutions with the CloudBees offering, a significant investment in their DevOps practices, a strong and dedicated team of trained and certified technical consultants, and a healthy revenue-generating professional service business based on CloudBees' technology.

Brett Taylor, President, Go2Group said, "We are excited to begin this journey. This enables both companies to deliver tremendous value to its mutual customers. Go2Group's partnership with CloudBees is a big win for our enterprise customers who are looking for the security, stability, and manageability that Jenkins provides as a continuous delivery solution. Our combined expertise enables us to reach out to a larger customer base that wants to achieve business agility through DevOps practices. Jenkins is now a very important piece of our DevOps story."

"We are very pleased to have Go2Group as a Vista Channel Partner. Our goal with the new program is to ensure Elevate partners have deep expertise in DevOps – and specifically with the CloudBees Jenkins Solutions as the supporting platform for DevOps," said Aaron Morrison, director, worldwide channel sales at CloudBees. "Go2Group has proven expertise in both DevOps as a domain and CloudBees as the technology to support it. We look forward to working with Go2Group for mutual success."

In partnership with Cloudbees, Go2Group will continue to provide value to existing customers while enabling an easy way for new customers to engage a recognized solution provider for their DevOps transformation initiatives.

 [Click here to return to Contents](#)

## ***HP Inc. and Dassault Systèmes Collaborate to Unleash the Next Generation of 3D Design Innovation for Additive Manufacturing***

5 February 2018

Today at [SOLIDWORKS World](#), Dassault Systèmes' annual conference dedicated to the 3D design and engineering community, HP Inc. and [Dassault Systèmes](#) announced their collaboration to empower a

# CIMdata PLM Industry Summary

---

new era of product design innovation by entrepreneurs, makers, students and businesses. The two companies intend to optimize Dassault Systèmes' industry-leading SOLIDWORKS 3D design and engineering applications to take advantage of the unique voxel-level capabilities of HP's Multi Jet Fusion 3D printing solutions. Designers and engineers can completely reimagine products, leverage new materials, escape the limitations of traditional manufacturing, and produce new products more quickly and efficiently.

Powered by Dassault Systèmes' 3DEXPERIENCE platform, SOLIDWORKS applications support the complete design through manufacturing process, enabling innovators to rethink their approach to how parts and products are made. Millions of designers and engineers use SOLIDWORKS applications to quickly bring innovative ideas for new consumer experiences to market.

HP is now shipping more plastic production 3D printers than any other company in the world. Its Multi Jet Fusion 3D printing technology revolutionizes design, prototyping, and manufacturing with its unique ability to control part properties at the individual voxel level. This enables the design and production of previously unconceivable parts and, in the future, products with multiple physical properties such as variable stiffness and flexibility, numerous colors and textures, and electrical conductivity and communications.

HP and Dassault Systèmes will align future technology roadmaps to provide users with access to the latest design tools integrated with HP's voxel-level technology, as well as design tools for new materials. This roadmap includes upcoming releases of the SOLIDWORKS portfolio to support the full-color capabilities of HP's newly released [Jet Fusion 300 / 500 series of 3D printers](#). Both companies are strong supporters of the [3MF](#) standard to deliver reliable exchange of color information for 3D printing. They will continue to test, validate, and support 3MF for their solutions to assure accuracy of information exchange across the manufacturing workflow.

“The \$12 trillion manufacturing market is being digitally transformed and HP and Dassault Systèmes share a vision to change the way the world designs and manufactures,” said Stephen Nigro, President of 3D Printing, HP Inc. “Some of the world's greatest innovations spawn from the ideas of students, researchers, educators, and entrepreneurs. We are honored to bring the HP Multi Jet Fusion platform together with SOLIDWORKS' leading design platform and millions of users worldwide to give creators the the tools to build the next great innovations.”

“Innovators are driving tomorrow's industry renaissance, and additive manufacturing, new materials and 3DEXPERIENCE twins are opening up a world of possibilities where they can test and create their concepts,” said Gian Paolo Bassi, CEO, SOLIDWORKS, Dassault Systèmes. “Our investments in materials science combined with HP's open approach to materials development are also key to accelerating the 3D printing industry. Together we can expand on the technologies of both companies and collaboratively research new tools around materials science and the development of new materials. Innovators can stretch the limits of imagination, invent and reinvent, further the art of manufacturing and ultimately pursue sustainable innovation for products, nature and life.”

 [Click here to return to Contents](#)

***SOLIDCAM UK is set to open a new Technology Centre which will deliver technology transfer and be a driver for growth***

7 February 2018

# CIMdata PLM Industry Summary

---

SolidCAM UK experienced a massive boost to its business when it moved to its new Barnsley offices in 2012 and it anticipates another growth spurt when it opens its Barnsley Technology Centre. Gordon Drysdale, Managing Director says, “We ran very successful monthly seminars at our Technology Centre near Milton Keynes supported by ROMI and tooling and workholding suppliers. These seminars enabled engineers to see the whole manufacturing process from design through to the manufacture of the finished part. We outgrew that location. We are now moving the Technology Centre to Barnsley which will bring us together in one location so that customers can see our full range of services and meet all the SolidCAM UK team in a new and much bigger environment.”

Business has doubled since the move to the new Barnsley office and it is anticipated that the Technology Centre will result in a further 50% growth in business over the next 12-18 months. “The aim of the Technology Centre is for customers to understand the complete manufacturing process. We make some bold claims with iMachining, which is particularly effective on hard and difficult to machine materials such as Inconel and titanium, where we can achieve improvements in speed of 70% and up to 90% in some cases.” One of the key technologies in iMachining is the software’s ability to maintain a constant chip thickness during cutting, continually changing the morphed toolpath step over and feedrate to achieve this and keep the tool cutting for more of the time. As well as iMachining, SolidCAM has powerful 5-axis machining and Mill/Turn capabilities. There is no limit to the number of axes it can control and synchronise with Mill/Turn applications. Gordon Drysdale says, “Some of the Swiss type (Sliding Head) lathes can have 14 or more axes. SolidCAM can write all the programs for the different channels, synchronise them, simulate the result and preform clash detection to produce a safe and efficient toolpath.”

SolidCAM UK has developed some close partnerships with machine tool manufacturers, workholding suppliers and tooling suppliers. With the new Technology Centre, it will be able to build on these partnerships to develop and test new techniques for optimising machining productivity. This will be the third SolidCAM Technology Centre in Europe. The company already has centres in Germany and the Czech Republic and, as well as educating engineers in advanced metal cutting technology, the facilities are used as a testbed for new ideas from customers and partners in collaboration with the software development team at SolidCAM’s headquarters in Israel.

SolidCAM software works inside SolidWorks and InventorCAM inside Autodesk Inventor, making the combined software an extremely powerful CAD/CAM solution. SolidCAM UK already has close relationships with leading resellers of these products in the UK, supplying resources such as CAM specialists, postprocessors and training, as required by each reseller, so that the customer has the right level of support to maximise the productivity of his system. A large proportion of SolidCAM UK’s business comes through this reseller network. However, with the advent of the new Technology Centre, the company is intending to grow its direct business where the customer’s requirement is not mainly design. The team at SolidCAM UK has grown significantly and it is actively seeking additional skilled employees to fill engineering and business development roles to meet the anticipated further growth.

As a Tier 2 member of the Nuclear AMRC, SolidCAM UK has taken advantage of its proximity to Sheffield to participate in seminars and has been involved in the manufacture of parts for the Bloodhound SSC. Additionally, it works with Sheffield Hallam University which has 200 copies of its software. MACH 2018 will be a major event for the company where it has a 40m2 stand in Hall 17 stand 640. Gordon Drysdale says, “We are looking forward to MACH and we will be having a machine tool on the stand again (kindly supplied by Romi) so that visitors can see for themselves the productivity gains that iMachining can bring. We are excited about the new Technology Centre and the opportunities it will deliver in technology transfer, partnership development and new business. The strength of

# CIMdata PLM Industry Summary

---

SolidCAM UK lies in the skilled and dedicated engineers we employ. We now need more people of the same calibre to prepare us for growth.”

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

## ***Stratasys Teams with Dassault Systèmes and Industry Visionary Easton LaChappelle for Major 3D Printing, Prosthetics Initiative***

5 February 2018

[Stratasys](#) today announced the company is teaming with [Dassault Systèmes](#) and industry innovator Easton LaChappelle to power a transformational new initiative - [Unlimited Tomorrow](#). Unveiled at SOLIDWORKS World 2018, Stratasys will become the exclusive provider of 3D printing technology for the initiative and organization -- ushering in a new age of custom-designed, low-cost, highly functional arms for those who need them most. Unlimited Tomorrow will fully collaborate with Stratasys on research, development and production of these prosthetics – reinforcing the company’s current and evolving investments in corporate social responsibility.

Traditional prosthetic models are often heavy, cumbersome and expensive – costing recipients a minimum of \$20,000 per device to upwards of \$100,000. The decision to spend this on children is further complicated because many quickly outgrow models and thus require entirely new devices. Unlimited Tomorrow re-thinks the way artificial limbs are made by targeting common pain points of customization, weight and cost.

Placing the recipient first, the organization builds intuitive, scalable models to engineer custom devices from start to finish. Revolutionizing the process/supply chain, Unlimited Tomorrow also taps into digital, scanning and 3D printing technologies to streamline development and reduce multiple fittings – minimizing the impact to each patient.

“Unlimited Tomorrow is driven by enabling the possible, with unique thinking that results in absolutely incredible ideas. Our intent is always ‘user-first’, meaning the technology serves needs of patients from the outset – and it’s all driven by the most advanced technology,” said Easton LaChappelle, Founder of Unlimited Tomorrow. “We are honored to have Stratasys and Dassault Systèmes join our growing enterprise coalition, further empowering us to change the paradigm for personalized, 3D printed prosthetics and accelerate our-go-to market.”

Core to the announcement is the selection of Stratasys and Dassault Systèmes as the program’s dedicated 3D printing and CAD/CAE suppliers. Stratasys’ exclusive cooperation provides Unlimited Tomorrow with the development and production of the prosthetics through the company’s PolyJet expert team, as well as Stratasys Direct Manufacturing. Capitalizing on [Stratasys’ 3D printing solutions for healthcare](#), Unlimited Tomorrow accesses best-in-class 3D printing know-how and materials to engineer sturdy, functional, and aesthetically-pleasing devices. Backed by unique levels of realism, Stratasys solutions are perfectly suited to match prosthetic to patient for maximum personalization.

“We view 3D printing as a catalyst for healthcare innovation to enable better patient care, streamline procedures, and improve learning. One of the most visible impacts is in creation of prosthetics. That’s why a main component of our Corporate Social Responsibility program is focused on accessibility of devices – driving true change, improving quality-of-life, and advancing recipients’ self-esteem,” said

# CIMdata PLM Industry Summary

---

Arita Mattsoff, Vice President, Corporate Social Responsibility at Stratasys. “Unlimited Tomorrow is bettering the lives of children worldwide with practical and affordable custom-fit devices. We’re proud to team with long-time partner Dassault Systèmes and Unlimited Tomorrow - bringing the technology and know-how to create the best artificial limbs.”

With Dassault Systèmes’ [SOLIDWORKS](#) applications, Unlimited Tomorrow leverages the ultimate 3D design and engineering portfolio to facilitate an integrated design-to-creation process and bring innovations to market faster. The software permits a high degree of collaboration and idea-sharing for rapidly-made and more cost-effective devices for recipients.

“In this highly competitive market, true industry leaders encourage efficiency and creativity across all aspects of their operations – particularly in design, manufacturing and product development. Time and again, SOLIDWORKS is the go-to portfolio of applications that makes real innovation possible,” said Suchit Jain, Vice President, Strategy & Business Development, SOLIDWORKS, Dassault Systèmes. “It’s very rewarding to align with Stratasys to advance Unlimited Tomorrow’s global initiative.”

In keeping with Unlimited Tomorrow’s promise to empower people, the organization has chosen Indiegogo’s platform for current equity fundraising efforts. Notes Jonathan Cohen, Chief Enterprise Solutions Officer at Indiegogo: “We applaud Unlimited Tomorrow for their commitment to listen to the ‘crowd’ in crowdfunding for their latest innovation. Indiegogo’s Enterprise offering will allow Unlimited Tomorrow to capture interest and validation while receiving investment from consumers.”

Stratasys announced the relationship with Unlimited Tomorrow at a press conference today during [SOLIDWORKS World 2018](#) in Los Angeles, Calif. To learn more, visit Stratasys at Booth No. 701.

 [Click here to return to Contents](#)

## ***Tech Mahindra, OutSystems Join Hands to Bring Low-Code App Development into New Regions and Industries***

7 February 2018

[OutSystems](#) today announced a collaboration with Tech Mahindra. With this partnership, Tech Mahindra will now use the OutSystems low-code development platform for its enterprise clients across five verticals. This collaboration enables OutSystems to expand its reach into these verticals. Tech Mahindra can now offer clients access to the industry-leading low-code development platform, as recognised by [Gartner](#) and [Forrester](#).

“Low-code app development has entered the mainstream worldwide, as companies press to maximise their productivity, agility, and ultimately, profitability,” said Bob Wilson, Vice President, Global Alliances & Channels of OutSystems. “Our collaboration with Tech Mahindra allows us to help enterprise organisations across various verticals quickly realise their mobility strategy through the use of our leading low-code, rapid application development platform.”

The alliance is currently focused on reaching five industry verticals: manufacturing, financial services, communications, healthcare, and retail/CPG. This collaboration will help joint customers in these industries expedite development and integrations between existing software tools. Tech Mahindra projects, now powered by low-code development, will enable clients to eliminate paperwork, streamline

onboarding, and start building quality applications faster than before.

“Tech Mahindra is committed to providing our clients with the solutions that make a difference in their business operations,” said Sriram Krishnan, Senior Vice President, Tech Mahindra. “Low-code app development platforms are growing in popularity in every region we serve. We’re excited to provide resellers with access to what analysts and customers widely agree is the leading platform in this space.”

 [Click here to return to Contents](#)

## Events News

### ***CGTech to showcase VERICUT Composites Applications software at JEC***

6 February 2018

At the 2018 JEC Composites show, March 6-8, 2018 at the Paris Nord Villepinte Exhibition Centre, CGTech will demonstrate how advanced programming strategies and simulation can lead to better composite parts. Throughout the show, in stand N80, CGTech will also demonstrate Composites 2018, the latest version of VERICUT Composite Programming (VCP) & VERICUT Composite Simulation (VCS).

CGTech’s Composites 2018 release of VCP and VCS features a completely redefined Graphical User Interface (GUI), enhanced suite of programming and analysis tools, and redefined methodology through the use of the powerful new Laminate Manager. The Laminate Manager helps users easily manage files, processes, and batch actions for the entire composite laminate. Internal refinements ensure that large projects are now able to be programmed and simulated in a fraction of the previous time.

“Due to the extensive time, energy, and labor invested in composite workpieces prior to machining, they can often be more expensive than even some exotic metal alloy parts,” said André Colvin, CGTech’s Composite Product Manager. “Repairing composite workpieces after a machining error is problematic and many times not advisable. Thus, validating the part program prior to trimming is exceedingly critical. Simulation also decreases machine downtime by eliminating the need for wasteful dry runs.”

Visitors to CGTech’s stand will also have the opportunity to receive a thorough overview of the steps needed to get from a CAD designed composite part to CNC programs that drive an Automated Fiber Placement (AFP) or Automated Tape Laying (ATL) machine. There will be information on new projects that highlight the implementation and use of machine independent off-line NC programming software for AFP and ATL machines, such as the work being done at NASA’s Langley Research Center using a 16-tow Electroimpact automated fiber placement machine. Current customer projects to be highlighted include extensive use of robots, lasers, probing, and ultrasonic knives.

CGTech will also exhibit its latest version of VERICUT 8.1 software. VERICUT is an industry leading CNC machine simulation, verification and optimization software that enables users to eliminate the process of manually proving-out NC programs. VERICUT simulates all types of CNC machining, including drilling and trimming of composite parts, water jet, riveting, robotics, mill/turn and parallel kinematics. VERICUT runs standalone, but can also be integrated with leading CAM systems.

 [Click here to return to Contents](#)

# CIMdata PLM Industry Summary

---

## ***EXENTA to Showcase Innovations in Fashion Technology, Discuss Blockchain at PI Apparel LA***

5 February 2018

EXENTA (formerly Simparel) announces its sponsorship of the PI (Product Innovation) Apparel LA event on February 12-13 at the Renaissance Long Beach Hotel. The company will showcase its revolutionary new Product Lifecycle Management (PLM) and other Enterprise solutions in the event exhibition hall. EXENTA will also lead a discussion on the use and future of Blockchain technology as part of the Innovation Program at the event.

“We are pleased to sponsor this first edition of the popular PI Apparel event in Los Angeles,” noted EXENTA President and CEO Roberto Mangual. “Based on our prior participation in PI New York, we expect to meet with many business leaders and professionals that are working to digitally transform their product design, development, manufacturing, supply chain, and fulfillment processes. We look forward to sharing our expertise and demonstrating why so many companies are choosing EXENTA as their partner in seizing the opportunities of today’s omnichannel marketplace.”

The company’s exhibit will highlight the revolutionary new EXENTA™ PLM REVO™ solution. Representing the latest thinking in PLM, it offers a cloud/web-based platform that effectively redefines the user experience by enhancing design creativity, automating tasks and processes, and providing analytics that drive more-timely and better-informed decisions across the entire business.

Kicking off day two of the event program, EXENTA Chief Technology Officer Ken Fearnley will lead a think tank discussion entitled Blockchain Technology and Fashion. The session will introduce the technology behind Bitcoin and other cryptocurrencies and how it can contribute to security, reliability, and social compliance in the apparel and fashion space. Attendees will learn how this disruptive technology may be leveraged for sample tracking, social compliance, materials traceability, and more.

Simparel recently changed its name to EXENTA, reflecting the growing and fast-developing company that it has become.

 [Click here to return to Contents](#)

## ***Minerva is official sponsor of PI PLMx Hamburg 2018***

6 February 2018

Minerva, the largest implementation partner of complete industry solutions for the Aras PLM platform, today announced that the company is official sponsor of the PI PLMx Hamburg 2018 conference held in Hamburg, Germany on February 19th to 20th.

The gathering is the only Product Lifecycle Management event in Europe. The conference connects innovative product development, IT and manufacturing teams from Automotive, Aerospace & Defense, High Tech Electronics, Industrial and Medical Device Manufacturing to shape the future of PLM.

The conference brings together industry and technology leaders to connect and collaborate on strategies to address the growing complexity in global product development, systems engineering, manufacturing, quality and the supply chain.

PI welcomes you to join 200 manufacturers from around the world to discuss the opportunities offered by PLM and its vital role in the digitalization across different industries.

# CIMdata PLM Industry Summary

---

To read more about the event and for booking inquiries, [click here](#).

For more details, agenda and registration visit: [http://events.pi.tv/2018/plmx\\_eu/](http://events.pi.tv/2018/plmx_eu/)

 [Click here to return to Contents](#)

## ***Siemens PLM Connection – Americas will transition to Siemens from PLM World***

8 February 2018

Siemens and PLM World® announce today that the highly successful user conference, Siemens PLM Connection – Americas, will transition to being managed directly by Siemens. PLM World, the current user organization that manages the event, and Siemens have agreed to transition the event with an effective date of June 2019. PLM World will host the 2018 June event in Phoenix, Arizona as planned. The two organizations will continue to work together to enable users to maintain a strong voice influencing Siemens’ future software development and ongoing innovation.

Siemens PLM Software has undergone a substantial business transformation, with various acquisitions extending the company’s solution coverage beyond the traditional product lifecycle management (PLM) domain. The end goal of the transition will be to provide customers with a holistic platform for digital innovation across both the lifecycle and the enterprise.

“Given the continued expansion within Siemens PLM, this transition is the logical next step,” said Nathan Hartman, chairman, PLM World. “We look forward to continuing our relationship with Siemens; while the company focuses on the user events, our organization will transition to an educational role supporting the development of the next-generation digital manufacturing workforce.”

Over the last 41 years, the PLM World organization has successfully developed the Siemens PLM user community and offered quality educational opportunities through annual and regional user group events. Siemens intends to build on this strong foundation and expand community events to cover the broadened portfolio that the company now offers for the digital enterprise.

“Siemens very much appreciates what PLM World has achieved and our excellent working relationship,” said David Taylor, vice president of global marketing, Siemens PLM Software. “We look forward to continued support from the PLM World community, with the user voice always being integral to the direction of Siemens’ software development in the future.”

Additional details will be provided over the course of the transition period. For more information on Siemens PLM connection – Americas 2018 please see [www.siemensplmconnectionamericas.org](http://www.siemensplmconnectionamericas.org).

 [Click here to return to Contents](#)

## Financial News

### ***Renesas Electronics Reports Full Year 2017 Financial Results***

9 February 2018

Renesas Electronics Corporation today reported financial results for the fourth quarter ended December

## CIMdata PLM Industry Summary

---

31, 2017 (October 1, 2017 to December 31, 2017) and financial results for the year ended December 31, 2017 (January 1, 2017 to December 31, 2017).

“We have been continuously improving our gross and operating margins by pursuing sales growth and cost efficiency,” said Bunsei Kure, Representative Director, President and CEO, Renesas Electronics Corporation. “Our fourth quarter non-GAAP semiconductor sales increased by 28.0% year on year, driven by increased sales mainly in the automotive and industrial businesses, in addition to the integration of Intersil. We expect to achieve traction in semiconductor sales during the coming quarter on a year-on-year basis.”

To read the full report with charts, please visit:

<https://www.businesswire.com/news/home/20180208006609/en/Renesas-Electronics-Reports-Full-Year-2017-Financial>

 [Click here to return to Contents](#)

### ***Synopsys Announces Earnings Release Date for First Quarter Fiscal Year 2018***

7 February 2018

Synopsys, Inc. today announced it will report results for the first quarter fiscal year 2018 on Wednesday, Feb. 21, 2018, after the market close.

A conference call to review the results will begin at 2:00 p.m. PT (5:00 p.m. ET) and will be hosted by Aart de Geus, chairman and co-chief executive officer, and Trac Pham, chief financial officer.

Financial and other statistical information to be discussed on this conference call will be available on the corporate website at [www.synopsys.com](http://www.synopsys.com), immediately before the call. A live webcast will also be available on this site. Participants should access the live webcast at least 10 minutes prior to the start of the call. A webcast replay can be accessed on the corporate website beginning Wednesday, Feb. 21, 2018, at approximately 4:00 p.m. PT. The replay will be available until Synopsys announces its second quarter fiscal year 2018 results in May 2018. In addition, a dial-up replay of the conference call will be available beginning Feb. 21, 2018, at 4:00 p.m. PT, ending on Feb. 28, 2018, at midnight. The replay telephone number is USA +1-800-475-6701, and International +1-320-365-3844, Access Code 444434.

 [Click here to return to Contents](#)

## Implementation Investments

### ***Sysmex America Expands Use of ThingWorx Platform to Transform the Patient Experience***

6 February 2018

PTC and [Sysmex America](#) today announced that Sysmex has expanded its use of the [ThingWorx](#)® Industrial Innovation Platform to enable Sysmex to revolutionize the delivery of blood test results with the [Sysmex XW-100TM](#) automated hematology CBC analyzer.

The XW-100 is the first automated hematology analyzer developed for CLIA-waived use. Instead of sending blood samples to outside laboratories and awaiting the results, the XW-100 makes it possible for one of the most frequently requested blood tests, the CBC, to be performed in medical offices where

# CIMdata PLM Industry Summary

---

patients are first treated. On-site blood test results are available to patients in as few as three minutes.

The pursuit of IoT innovation led Sysmex to adopt ThingWorx. The Industrial Innovation Platform enabled Sysmex to greatly expand the availability of product data and implement transformative connected solutions that were previously beyond reach. Prior to the XW-100, virtually all hematology analyzers required skilled clinical personnel to perform blood sample analysis and validate results. This ground-breaking innovation enables blood tests to be safely performed by a broader range of practitioners, improving access to and speed of care.

“The Sysmex Innovation team continues to deliver exceptional value by leveraging the ThingWorx Industrial Innovation Platform,” said Ralph Taylor, chief executive officer, Sysmex America. “The combination of the ThingWorx Industrial Innovation Platform with the XW-100 enables Sysmex to revolutionize the delivery of common blood test results by reducing time to diagnosis, enabling faster treatment plans, and improving the efficiency of health care delivery.”

Sysmex has embraced continual innovation as an integral part of its core business model,” said Jim Heppelmann, president and CEO, PTC. “Leveraging ThingWorx enables Sysmex America to continue to deliver high-value IoT-enabled solutions to its customers and help retain its leadership position in an intensely competitive market. We congratulate Sysmex on this breakthrough technology.”

 [Click here to return to Contents](#)

## ***Woolworths Chooses Centric Software PLM***

6 February 2018

Woolworths Proprietary Limited has selected Centric Software to provide its Product Lifecycle Management (PLM) solution for its Fashion, Beauty and Home business. Woolworths South Africa, part of the Woolworths Holdings Group, is a leading retailer operating in South Africa and 11 Sub Saharan African countries. The retailer offers a unique blend of food, fashion, beauty, homeware and financial services.

Woolworths' requirements for an innovative and intuitive PLM system grew as their business grew. With their increased product offerings, sourcing regions became more diverse and they also expanded into new trading regions, creating additional complexity in the management of these new channels. Research kicked off to address these issues which led the organization into the world of modern PLM solutions. After stacking up each business challenge across the product landscape, it became evident that a PLM would be able to address almost all of their challenges.

Following a competitive selection process, Woolworths chose to implement Centric Software's PLM solution.

Centric was selected as it best fit the current and future business trading model of Woolworths as well as simultaneously providing opportunities to simplify and streamline ways of working. A company culture fit and a fantastic local implementation partner who has experience implementing Centric at other retailers in South Africa made the decision easy.

Having a single version of the truth across all different departments will allow for easier management of collections, a reduction in time to market and improved visibility. Centric will provide the platform to

transform design, sourcing, buying and technology tasks and roles - empowering the Woolworths team to make smarter and faster decisions.

Centric looks forward to partnering with Woolworths to implement a solution that is flexible, works out of the box, and can grow and adapt as their business changes over time.

"We are very pleased that Woolworths has selected Centric PLM and would like to welcome them to the Centric family," says Chris Groves, President and CEO of Centric Software. "We will be with Woolworths every step of the way and we look forward to seeing Centric support their business as they move into the future."

 [Click here to return to Contents](#)

## Product News

### *Announcing SIMSOLID Cloud*

6 February 2018

SIMSOLID Corporation is proud to announce the general availability of SIMSOLID Cloud.

SIMSOLID continues to set the standard for rapid simulation-driven design. Its innovative core technology eliminates geometry simplification and meshing, the two most time-consuming and expertise-intensive tasks done in traditional FEA. Moreover, SIMSOLID can analyze complex parts and large assemblies not practical with traditional FEA and provides performance feedback in seconds to minutes.

SIMSOLID Cloud is an all new browser-based structural analysis application. Available in the [Onshape App Store](#), it uses Onshape's single sign-on and runs completely within an Onshape Document tab. With SIMSOLID Cloud, you never have to leave the familiar Onshape environment. All modeling, analysis and results visualization are completely embedded.

SIMSOLID Cloud offers structural static and modal vibration analyses. It comes with an integrated material properties library. Both individual parts and assemblies can be analyzed and parts can be either mesh or CAD solids based.

SIMSOLID Cloud comes with unique design study capabilities. Design studies are used to collect and quantify design performance variation. Each SIMSOLID project can contain multiple design studies and each study can contain multiple analyses. Best of all, SIMSOLID design studies are associative to Onshape geometry updates. As the geometry evolves, the study can be updated without having to recreate the existing analysis configuration settings.

"We are pleased to announce SIMSOLID Cloud," said Ken Welch, co-founder and CEO. "Onshape is an ideal cloud partner for us. We are excited to get going."

"SIMSOLID is an innovative partner," said Jon Hirschtick, Onshape CEO. "Their meshless FEA approach is truly changing the way design analysis is performed. I think it is fantastic that Onshape users no longer have to simplify geometry before running analysis."

 [Click here to return to Contents](#)

## ***BOXX Demos World's Fastest SOLIDWORKS Workstation at SOLIDWORKS World 2018***

5 February 2018

BOXX Technologies, the leading innovator of high-performance workstations, rendering systems, and servers, today announced that [APEXX S3](#), the world's fastest workstation, will be demonstrated at BOXX booth #811 at SOLIDWORKS World 2018, Feb. 4-7, at the Los Angeles Convention Center in Los Angeles, CA. A Dassault Systèmes Corporate Partner, designated [SOLIDWORKS Solution Partner](#), and leading manufacturer of CATIA and SOLIDWORKS-certified workstations, BOXX will also debut APEXX T3, a new 16-core AMD Ryzen Threadripper workstation, as well as two GoBOXX mobile workstations. BOXX will continue its longstanding tradition of allowing attendees to test systems by bringing along their assemblies.

“We design our own chassis so we’re SOLIDWORKS users ourselves,” said BOXX VP of Engineering Tim Lawrence. “That experience provides us with a unique perspective and clear understanding of engineering and product design workflows, as well as which configurations will provide optimal application performance. Our best-selling APEXX S3 is the embodiment of BOXX expertise.”

APEXX S3 features the latest Intel® Core™ i7 8700K processor overclocked to 4.8 GHz. The liquid-cooled system sustains that frequency across all cores—even in the most demanding situations. 8th generation Intel processors offer a significant performance increase over previous Intel technology and BOXX is the only workstation manufacturer providing the new micro architecture professionally overclocked and backed by a three-year warranty. In addition to overclocking, BOXX went a step further by removing unused, outdated technology (like optical drive bays) in order to maximize productive space. Inside its compact, industrial chassis, the computationally dense APEXX S3 supports up to two dual-slot NVIDIA® or AMD® Radeon Pro™ professional graphics cards, an additional single-slot card, and features solid state drives and faster memory at 2600MHz DDR4.

At SOLIDWORKS World, the best-in-class APEXX S3, configured with dual NVIDIA Quadro™ P5000 GPUs, will demonstrate SOLIDWORKS 2018, as well as an upcoming version of SOLIDWORKS Visualize featuring OptiX AI-accelerated denoising technology. The workstation offers professional grade performance for all 3D CAD, animation, motion media, and rendering applications and will be utilized inside the SOLIDWORKS booth as well.

Along with the APEXX S3, attendees will have an opportunity to see the soon-to-be-released APEXX T3, an AMD-based workstation featuring a 16-core Ryzen Threadripper processor and Radeon Pro WX9100 GPU. At the BOXX booth, APEXX T3 will demonstrate both SOLIDWORKS 2018 and AMD ProRender for SOLIDWORKS, while also making its debut inside the AMD booth.

The BOXX booth is also home to mobile workstation demonstrations including the [GoBOXX MXL VR](#). Designed for engineers and architects eager to incorporate mobile virtual reality into their workflow, GoBOXX MXL VR features a true desktop-class Intel® Core™ i7 processor (4.0GHz), NVIDIA GeForce graphics, and up to 64GB of RAM. GOBOXX MXL VR will demonstrate a SOLIDWORKS to VR workflow, as will the ultra-thin [GoBOXX SLM VR](#). Featuring a four-core, Intel® Core™ i7 processor and professional NVIDIA® Quadro™ graphics on a 15" full HD (1920x1080) display, GoBOXX SLM VR provides ample performance and reliability, enabling engineers and product designers to work from anywhere.

“Year after year, our booth is a top destination for SOLIDWORKS World attendees,” said Shoab

# CIMdata PLM Industry Summary

---

Mohammad, BOXX VP of Marketing and Business Development. “We offer consultation with experts, allow user participation in our demos, and help SOLIDWORKS users determine firsthand which BOXX solutions will suit their workflows and empower them to work faster and more efficiently than ever before.”

 [Click here to return to Contents](#)

## ***DXC Technology Launches Agile Process Automation to Transform Business Processes with Data Discovery Robotics***

31 January 2018

[DXC Technology](#) today announced the launch of DXC Agile Process Automation (APA), a new digital platform that combines cloud and robotic process automation (RPA) with embedded artificial intelligence (AI) to enhance a company’s business processes.

Whether transforming existing processes to take full advantage of automation or creating new operating models to deliver business innovation, DXC APA provides companies with a complete agile solution. In addition, through the world-class DXC Partner Network, DXC is teaming with PwC, Blue Prism and UiPath to bring this offering to enterprises.

“We’ve entered a new innovation cycle, specifically in business processes, that is driven by the cloud, robotic process automation and artificial intelligence-based technologies,” said [Mahesh Shah](#), vice president and general manager, Business Process Services (BPS), DXC Technology. “We are now able to go beyond traditional limitations, helping our clients leap into a new era of speed, productivity and efficiency.”

The DXC APA platform enables business processes to become more digital through cloud-based, robotic process automation as a service. Leveraging artificial intelligence technologies, the robots are self-learning and can be scaled to meet the demands of the business through a consumption-based model.

"The use of robotic process automation is inevitable for any large organization, and the questions today are where to apply it and how to capture its benefits," said Dr. Ron Babin, adjunct research advisor, International Data Corporation (IDC). "Organizations must identify opportunities and begin process automation trials to understand how it can reduce costs, allowing the organization to remain competitive with market challengers."

Benefits of DXC Agile Process Automation include:

- Diagnostic and assessment: Through an AI-assisted discovery process, DXC APA analyzes structured and unstructured, or “dark data,” to give clients a real-time, fully transparent, high-definition view of their business process inefficiencies.
- Advisory: DXC and its partners use this data-driven business process analysis to build a robotic process automation roadmap that leverages industry standards and business process best practices.
- Modular automation: DXC and its partners quickly deploy modules from the BPS Automation Factory to give clients the agility to deliver fast results.

# CIMdata PLM Industry Summary

---

- Hybrid digital workforce: With DXC APA, people, AI and robots work together as a flexible, hybrid digital workforce. A cloud-based automation orchestrator intelligently assigns and optimizes work across the digital workforce.

DXC APA is backed by its partners and more than 1,000 DXC automation experts who have deployed over 700 robots across three delivery centers, providing clients with greater process visibility, fewer business disruptions, reduced costs and less risk.

For more information on DXC Agile Process Automation, visit: [dxc.technology/apa](https://dxc.technology/apa).

 [Click here to return to Contents](#)

## ***HOOPS Visualize 2018 SDK Supercharges AR/VR Development using CAD Data; Supports Point Cloud Visualization and an Ever-Growing List of Integrations and Platforms***

5 February 2018

Tech Soft 3D today announces the release of HOOPS® Visualize 2018 software development toolkit (SDK), the gold standard graphics engine that powers hundreds of successful engineering applications worldwide. HOOPS Visualize 2018 enables full 3D viewing for AR and VR applications, full support for Out of Core point clouds, added support for Microsoft Visual Studio 2017, and tighter integrations with AutoCAD DWG, HOOPS Exchange and HOOPS Publish for seamlessly reading and sharing 3D data in multiple formats.

“With new technology trends in AR and VR, and the surge in power of mobile devices, our partners developing engineering applications are constantly seeking higher quality graphics,” said Erik Hultgren, Product Manager at Tech Soft 3D. “The engineering visualization capabilities for 3D formats in HOOPS Visualize 2018 are unmatched by anything else on the market.”

HOOPS Visualize now enables rapid development and deployment of 3D engineering applications on the HTC Vive, Microsoft HoloLens, Oculus Rift and Meta 2. When coupled with the rich access to 3D CAD data through HOOPS Exchange, software companies have a powerful set of tools to bring their next generation of engineering software to market.

HOOPS Visualize 2018 also now offers improved support for massive point clouds coming from the next generation of scanning devices. HOOPS Visualize’s out-of-core point cloud engine allows for gigabytes of data to be dynamically streamed from disk at multiple levels of detail for smooth and fast interaction. Accompanied by a collection of tools such advanced cutting sections, fast highlighting, quick editing and overlaying with geometry, HOOPS Visualize provides a powerful framework for building information modelling (BIM) and architectural, construction and engineering (AEC) applications.

Improvements can be found throughout the HOOPS Visualize 2018 release including faster performance, and enhanced control over selection and highlighting. High quality text and annotations have seen major upgrades with an update to the font rendering engine and advanced annotation support, which assure text visibility when the model is rotated by clipping leader lines, and the ability to render 2D text automatically in front of 3D lines.

For more information about HOOPS Visualize 2018, visit <https://www.techsoft3d.com/products/hoops/visualize/>

 [Click here to return to Contents](#)

## ***Latest Open Release of the Aras PLM Platform Simplifies Variant Management for Manufacturers***

5 February 2018

Aras® today announced availability of version 11 SP12 of Aras Innovator which adds [Configurator Services](#) onto the platform. Using these new services, manufacturers can simplify how product teams manage the complexity of different platforms, product lines, and variants and options. In addition, the new software release includes a range of enhancements for increased usability, efficiency, collaboration, and productivity.

Existing enterprise subscribers are entitled to software upgrades performed by Aras at no additional charge, regardless of the amount of system customization. Aras Innovator 11 SP12 is available for [open download](#) at no cost.

## **Tackling Product Complexity with Variant Management Through the Product Lifecycle**

Manufacturers need to respond to customer demands for products that meet core functional requirements as well as individual preferences and requirements. The result is a multitude of product variants and as-built configurations that must be managed as distinct product structures through the product lifecycle. A global automotive OEM selling vehicle platforms in several countries with multiple drive options (e.g., front wheel, AWD), different drivetrains (e.g., diesel, electric), and multiple trim levels may easily generate a billion possible configurations. This volume can add unmanageable complexity for engineering teams trying to meet customer requirements.

Using the Configurator Services, manufacturers can streamline configuration structures to save time and reduce error. The new Configurator Services allow teams to:

- Define and manage product portfolios, including platforms, product lines, models, and variable features, options, and rules.
- Distinguish variable from static content such as parts or technical documentation within configurable structures.
- Build 150% BOMs and easily convert them to specific product configurations.

To demonstrate the power of the Configurator Services and provide a starting point for companies to begin building variants and options structures, Aras has also released a sample Configurator application which is available for download [here](#).

For more information, teams can attend the live Aras Demo Series [webinar on Variant Management](#), Thursday, February 15, at 11 AM EDT, and see the Configurator Service in-action at [ACE 2018](#), Aras' Community conference in Indianapolis, IN, March 20-22.

## **New Usability and Fast Access to Information for Enhanced Productivity**

The latest open version of the Aras PLM Platform also adds a range of enhancements to improve collaboration and usability to save time, connect teams, and improve productivity:

## Rise of the Product Innovation Platform

Legacy PLM systems have focused on management of CAD data for physical, mechanical design, and are ill-equipped to unify product data across design disciplines or into the field.

- Extended Classification – classify items with multiple properties for enhanced searchability.
- Mass Promote – easily promote lifecycle state across multiple items with one command.
- RESTful APIs/Odata – support modern web interfaces to allow organizations to connect other technologies to the Aras PLM Platform.
- @Mentions in Visual Collaboration – tag colleagues and send alerts directly from Visual Collaboration.
- Enhanced Office Connector – improved performance when working with MS Word, Excel, and PowerPoint documents.
- Query Builder and Tree Grid View – model custom tree grid views for browsing related items, based on configurable query definitions.

## Supporting quotes:

“Variant management is a significant engineering challenge – not just for auto, but for any global manufacturer of complex products tailored to its customers’ specific needs. This latest release provides a way for companies to create efficient processes across multiple design disciplines and collapse expansive sets of variants into manageable configuration structures. Just as importantly, the architecture of the Aras PLM Platform ensures any customized processes that companies define are carried forward in any future software updates.” – John Sperling, VP of Product Management, Aras

 [Click here to return to Contents](#)

## ***Luxion Announces Motion Study Support with New Release of KeyShot for SOLIDWORKS***

5 February 2018

Luxion, maker of KeyShot®, the first real-time ray-tracing and global illumination program for 3D rendering and animation, today announced Motion Study support in a new release of KeyShot for SOLIDWORKS.

Designers and engineers depend on their ability to create visuals that communicate their product and how it works. KeyShot makes this process incredibly fast with drag and drop material, light and camera setup in an interface that takes minutes to learn. Now, with the KeyShot for SOLIDWORKS add-in, SOLIDWORKS users are able to turn their assembly simulations into beautiful animations with the new support for Motion Studies. Through the add-in, users are able to import their model with all assembly hierarchy, appearance data and Motion Study data maintained, then quickly apply materials and lighting, or take their motion further with KeyShot’s powerful camera and part animation capabilities.

Whether a rendering or animation is needed in minutes or advanced production visuals are needed for media and marketing, the new KeyShot for SOLIDWORKS add-in is designed around speeding up the

# CIMdata PLM Industry Summary

---

product development workflow. The add-in bridges SOLIDWORKS and KeyShot using Luxion's LiveLinking technology to make model updates smooth, maintaining all material, light and camera setup whenever a model change is made. Additionally, the KeyShot for SOLIDWORKS add-in introduces the new ability to separate materials by part to make import and update easier and material setup even faster.

With KeyShot used in all areas of the product development cycle and across the fields of product design, engineering, manufacturing and marketing, KeyShot has become the tool that SOLIDWORKS users turn to when they need quick concept renderings or the highest quality photographic visuals.

Key features of the KeyShot for SOLIDWORKS add-in include:

- Maintain assembly structure
- Maintain part level appearance on face, feature, body and part
- Option to Separate Materials by part
- LiveLinking (update model inside KeyShot)
- Export KeyShot .bip without KeyShot installed
- NURBS impor
- Motion Study import

Additional information on the KeyShot for SOLIDWORKS add-in, including download and how to use the features, is available at their website.

 [Click here to return to Contents](#)

## ***Meta Announces New Augmented Reality Integration with SOLIDWORKS***

6 February 2018

Meta Company, a pioneer in the augmented reality (AR) field, announced today that it will be the first company to offer 3D CAD viewing capabilities in AR integrated with Dassault Systèmes' SOLIDWORKS applications. The news was shared today by Suchit Jain, vice president of strategy and business development for Dassault Systèmes' SOLIDWORKS brand, at SOLIDWORKS World in Los Angeles during a keynote session that also featured a live demonstration of Meta's and SOLIDWORKS's new AR capabilities.

### Integration Overview

SOLIDWORKS "Publish to Xtended Reality" capability will allow users to export a CAD model from SOLIDWORKS to a customized version of an open-source format known as "glTF." Once a SOLIDWORKS model has been exported to glTF, it can be viewed on Meta's Model Viewer platform in the Meta 2 Development Kit headset.

The exported file retains key information from SOLIDWORKS, such as:

- Display states
- Materials/colors
- Animations (such as exploded view animations, motion study, etc.)

# CIMdata PLM Industry Summary

---

- 3D model hierarchy

This AR integration between SOLIDWORKS and Meta enables a simple and more natural design visualization for SOLIDWORKS customers on the Meta 2. Furthermore, the Meta 2's wide field of view and direct hand interaction creates an easier and more immersive experience than virtual reality. Through this collaboration between Meta and Dassault Systèmes' SOLIDWORKS brand, consumers of 3D CAD are no longer limited to viewing models on a 2D screen, and product design can become three-dimensional.

Key benefits of the Meta-SOLIDWORKS integration include:

- Speed – the plug & play nature of the file export/import process means there is no need for a SOLIDWORKS user or developer to build models uniquely for the Meta AR headset.
- Accessibility – benefits of 3D CAD visualization is not limited to designers and engineers - any sales or training professional wanting to view 3D models in immersive AR can do so immediately.
- Efficiency – viewing 3D CAD models in AR can have a significant impact on time-to-market, cost optimization and revenue by shortening the design review cycle, increasing sales conversion, and enhancing training comprehension.

Initial access to the private beta program will be by invitation only. Those interested in participating can express their interest at <https://www.metavision.com/solidworks>.

“Collaboration through augmented reality is the next step in the natural evolution of 3D design authoring,” said Kishore Boyalakuntla, vice president, product portfolio management and SOLIDWORKS brand UX leader, SOLIDWORKS, Dassault Systèmes. “With Meta extending new AR features, designers across the product life cycle – from concept to prototype to manufacturing – will benefit significantly from this partnership.”

“Support for 3D CAD viewing is important to our customers, and for the growth of the AR market,” said Joe Mikhail, chief revenue officer of Meta. “With this new SOLIDWORKS integration, our mutual customers will drive tangible business value from their existing SOLIDWORKS models. And for our developers, this technology will enable them to create more immersive, realistic and transformative AR experiences in the blink of an eye.”

Whether designing a shoe or a satellite, the Meta 2 Development Kit allows users to grab, move, and scale photorealistic 3D CAD files, enhancing the 3D design and presentation process. This enables designers and engineers to effectively validate and evaluate their designs within context, and allows sales and training professionals to create immersive experiences that lead to faster and better understanding of their products.

Meta began shipping the Meta 2 in late 2016. The technology holds promise in application to numerous markets – including product and building design, education, workplace productivity, manufacturing, and medicine. The Meta 2 Development Kit is available to order at [buy.metavision.com](http://buy.metavision.com).

 [Click here to return to Contents](#)

***Nano Dimension Partners with Dassault Systèmes' SOLIDWORKS Brand to Expand 3D Printing***

## ***Possibilities with Add-in for Embedded Electronics***

5 February 2018

Nano Dimension Ltd. has unveiled a new SOLIDWORKS add-in to its DragonFly 2020 Pro 3D Printer that makes additive manufacturing with embedded electronics a feasible option for mechanical and electrical engineers.

For the first time, 3D printing of complex prototypes made of polymers and metals and designed in Dassault Systèmes' SOLIDWORKS applications can be easily 3D-printed on Nano Dimension's [DragonFly 2020 Pro 3D Printer](#) in a single build process. This marks a significant advancement in how electronics are designed in SOLIDWORKS, and makes it possible to create 3D printed complex geometric structures with embedded electronics, encapsulated sensors, antennas and more.

The SOLIDWORKS add-in eliminates time-consuming processes, increases design possibilities and ultimately results in the development of more capable products. Another inherent benefit of the add-in is the dramatic reduction in the cost of errors when creating complex, geometric parts, accelerating product design and time-to-market.

With conventional editing software for 3D-printed electronics, users are limited to designing parts made of a single material, such as metal or polymer. In contrast, the unique Nano Dimension add-in lets designers easily edit and print 3D print designs that contain conductors, without leaving SOLIDWORKS. Users point-and-click to subdivide an object, and then automatically select conductive or insulating materials for different bodies of the object and 3D print.

“By 3D printing electronics, designers can obtain faster prototypes and work on PCBs in 3D, not just 2D,” said Suchit Jain, Vice President of Strategy & Business Development, SOLIDWORKS, Dassault Systèmes. “With Nano Dimension’s SOLIDWORKS add-in, for the first time ever users can design and 3D print electronics with a push of a button. We are proud to be partnering with an industry innovator like Nano Dimension.”

“We developed this add-in for SOLIDWORKS applications as a direct response to our customers’ needs for prototyping increasingly complex designs,” said Simon Fried, President of Nano Dimension USA. “The SOLIDWORKS add-in for the DragonFly 2020 Pro is the first tool to enable the combination of freeform objects and embedded 3D electronics. This capability offers our customers the ability to make what is currently unmakeable. This enables new ways of thinking, new ways of designing and ultimately, providing revolutionary solutions to some of today’s toughest product design challenges.”

Nano Dimension’s 3D printing solutions support the development of objects such as sensors, antennas, printed circuit boards, conductive geometries and more. The company is laying the foundation for businesses to integrate digital manufacturing, prepare for Industry 4.0, and make the leap from prototyping to production and small-batch manufacturing using the DragonFly 2020 Pro 3D Printer.

Nano Dimension will showcase its advanced additive manufacturing technology at [SOLIDWORKS World 2018](#) in Los Angeles from Feb. 4-7.

 [Click here to return to Contents](#)

## *NEC Ensures Communications Speed for Self-Driving Automobiles*

6 February 2018

NEC Corporation today announced the development of an adaptive network control technology that allows automobiles to share information about their surroundings in real-time, even in unstable communication environments featuring numerous vehicles and communication terminals.

In recent years, expectations have been growing for the introduction of self-driving automobiles, automated guided vehicles (AGV) at factories and drones for deliveries. However, in order to avoid collisions and ensure the safety of self-driving vehicles, it is necessary for vehicles to share information about their surroundings in real-time through mobile networks.

In terms of self-driving automobiles, guidelines established by the 3rd Generation Partnership Project (3GPP) require that at least 95% of communications reach their destination within 100 milliseconds.

In a mobile network, however, as the number of communication terminals that are connected to a radio base station increases, the communication delay for each terminal also increases. Moreover, communication delays may differ from terminal to terminal and may fluctuate every second. As a result, it has been nearly impossible to consistently reduce communications delays to below 100 milliseconds while in busy areas, such as major intersections.

In response to this, NEC has developed an adaptive network control technology for controlling networks that prioritizes certain urgent communication terminals based on their communications flow, then immediately assigns bandwidth and communication time (radio resources) to these terminals, rather than their less urgent counterparts. This helps to ensure that data transmission is complete within the 100 millisecond target time.

This technology has been tested in a simulated traffic environment where 100 automobiles and 100 pedestrians were using a variety of communication terminals, such as smartphones, while connected to an LTE radio base station. This testing verified that an automobile's communication delay could be shortened to 100 milliseconds or less and the rate of successful communication could reach 95%. This represents an improvement of more than five times over the conventional Proportional Fairness method of communications.

"We will continue our efforts to verify and commercialize this technology as we aim to see it applied to social systems in many different areas, such as self-driving automobiles, AGVs at factories, and drones for deliveries," said Yuichi Nakamura, General Manager, NEC System Platform Research Laboratories.

Part of this network control technology was recently developed through "The research and development of a high-efficiency communication system for a mobile phone network that covers numerous devices." The Ministry of Internal Affairs and Communications leads this research in which NEC has been involved since FY2016.

 [Click here to return to Contents](#)

## *New View Management Application for Autodesk Revit Users*

7 February 2018

Ideate Software, a veteran Autodesk Developer Network member, is pleased to announce the launch of [Ideate ViewCreator](#), an application that improves control, quality, and the efficiency of Revit model View creation. With it, users can:

1. Create multiple Revit views at the same time based on smart rules
2. Create copies of plans from one level to many levels
3. Ensure view properties, templates, and naming standards are used

“ViewCreator solves a problem experienced by both large and small companies that use Revit software,” said Ideate Software Director of Software Development, Glynnis Patterson. “Until now, they haven’t been able to batch-create multiple Revit views while complying with company-established BIM standards. ViewCreator solves this problem and perfectly complements our other Sheet and View tools: Sheet Manager, Clone, and Align. When used together, these tools support a high degree of automation and consistency for Revit sheet and view management.”

Ideate ViewCreator and the other Sheet and View tools are included in [IdeateApps](#), a collection of applications that simplifies the activities daily Revit users perform most often. Existing customers should [download the updated version](#) to automatically get access to this new tool within IdeateApps versions 2016, 2017, or 2018. Interested Revit users can get a free trial of the entire toolset by visiting the [Ideate Software website](#).

“As Building Information Modeling continues to transform the Architecture, Engineering, and Construction industries, we continue to develop tools that help project teams streamline Revit activities, increase productivity, and enhance model accuracy. Ideate ViewCreator is our latest tool to do this, and we are certain that people will experience its power as soon as they start to use it,” said Ideate Software President, Bob Palioca.

A subscription to IdeateApps includes:

- Ideate ViewCreator – Improves control, quality, and the efficiency of View creation
- Ideate SheetManager – Filters Sheet and View lists, supports placing Views onto Sheets, and more
- Ideate Align – Ensures Views on one Sheet align with Views on other Sheets
- Ideate Clone – Copies a Sheet and its properties, and places unplaced Views onto new Sheets that align with the previous Views
- Ideate ReNumber – Simplifies the process of renumbering elements
- Ideate SpellCheck – Checks the spelling of Text and Schedule elements
- Ideate XRay – Identifies the reasons an element isn’t visible in a certain View
- Ideate SmartDelete – Reveals the elements that will be deleted with a selected element
- Ideate QuickSelect – Selects /zooms to elements in the project, template, or family file

 [Click here to return to Contents](#)

## ***Rize Inc. Grows Partnership with Dassault Systèmes' SOLIDWORKS***

5 February 2018

[Rize Inc.](#) announced that it has deepened its partnership with Dassault Systèmes' [SOLIDWORKS](#) brand and made [Rize™ One](#) 3D printers inclusive in the SOLIDWORKS design experience with a new Rize add-in.

Rize One, the world's first hybrid printer, fully designed in SOLIDWORKS, is gaining traction within the SOLIDWORKS community with customers like ConMed and ThermoFab, that are using it for diverse end-use applications like custom tooling, producing molds and custom and replacement parts.

The tighter technical integration between Rize and SOLIDWORKS enables users to simply select Rize 3D Print from the SOLIDWORKS Tools menu. The Rize add-in automatically transfers files from SOLIDWORKS to the Rize slicing software without the need to export and import files. Users can [download](#) the complimentary add-in from the Rize Website.\*

In addition to Rize recently achieving SOLIDWORKS Solution Partner status, functional, isotropic-strength gear shifter parts designed in SOLIDWORKS and produced on a Rize One 3D printer will be featured in the SOLIDWORKS Product Showcase this week at SOLIDWORKS World 2018.

"We are excited that Rize has developed an add-in that will make it faster and easier for SOLIDWORKS users to use additive manufacturing," said Gian Paolo Bassi, CEO, SOLIDWORKS, Dassault Systèmes. "I am also delighted that the Rize One 3D printer has been developed in SOLIDWORKS. We look forward to growing our partnership with Rize."

"Our focus is to drive additive at scale and bring the 3D printing process closer to end users. The Rize add-in is a step in that direction and demonstrates our commitment to SOLIDWORKS and their tremendous ecosystem of innovators. We are proud to be a part of this ecosystem," said Andy Kalambi, President and CEO of Rize. "We will continue to work closely with SOLIDWORKS to expand the usage of additive manufacturing."

Rize will demonstrate the Rize One 3D printer and SOLIDWORKS integration at [SOLIDWORKS World](#) this week in booth #217 at the Los Angeles Convention Center in Los Angeles, CA USA.

[!\[\]\(73e75d230739d664d98b12543b385ee5\_img.jpg\) Click here to return to Contents](#)

## ***Siemens' new Digital Enterprise Industry Solution for electronics addresses software complexity in connected smart products***

6 February 2018

Siemens today announces a new Digital Enterprise Industry Solution for the electronics industry, following several recent major investments by Siemens to serve the industry. The Software Engineering and ALM solution specifically addresses several of the critical product development challenges associated with the increasing consumer demand for connected smart products: increased security threats and privacy issues and risk management on products that incorporate internet-connected sensors. It also addresses the need for quality teams to incorporate accelerated testing processes in order to keep up with rapid software development technologies such as Agile® software, Scrum and continuous

# CIMdata PLM Industry Summary

---

delivery, while still maintaining or improving product quality.

Integrating application lifecycle management (ALM) software with product lifecycle management (PLM) software allows companies to effectively manage traditional product development cycles and the software used to control these products. Creating the ability for software and hardware engineers to work as part of the same team allows for true product co-engineering as well as implementation and measurement of product and software process improvements. This solution helps multi-discipline development teams to achieve end-to-end efficiency and productivity and also enables traceability across hardware and embedded software configurations in all lifecycle phases, which allows for enhanced product quality and efficient change management.

In addition, the solution allows for the unification of the user experience by allowing engineers to work in their preferred and familiar development tools while still connected to the integrated workflows in real-time. When software components are produced and tested on the ALM side, they can be published to the bill of material (BOM), thus providing a truly integrated mechanical, electrical and software BOM for the product. This allows companies to improve visibility across product development domains and utilize real-time collaboration with intuitive authoring and linking to quickly identify defects, determine impact, and resolve issues in the most complex of systems. Siemens is uniquely positioned to offer this truly integrated solution and cover the entire scope for global product development, manufacturing and support.

“In order to stay competitive, electronics companies have to innovate and develop feature-rich and high-volume products, at an accelerated pace, without compromising quality. Software development drives a significant part of this today and will become even more important in the future,” said Ajith Krishnamurthy, director of Electronics and Semiconductor Solutions at Siemens PLM Software. “Siemens’ Software Engineering and ALM solution enables companies to manage software development in line with traditional product development processes, increasing efficiency and ultimately helping create products that satisfy the needs of consumers.”

The foundation for the Internet of Things (IoT) is being laid through the evolution and increasing intelligence of embedded systems. The expectations for more intelligent systems are increasing the volume and complexity of embedded software in these devices, which requires new tools to bridge the worlds of ALM and PLM.

“The Internet of Things (IoT) continues to transform traditional business models, merging software, data services and online connectivity – enabling intelligent factories and smart products,” said Joe Dury, director at Kalypso. “When electronics companies use the IoT and associated analytics to integrate ALM and PLM technology, they can analyze and mine the data to glean new, important insights for product development, manufacturing and supply chain management. These insights enable smart connected operations, helping companies better manage increasing product complexity and allowing them to improve the entire manufacturing process by garnering all of the data at scale.”

With the explosion of connected smart products fueled by customer demand, software quality is imperative. Meeting these quality standards requires an end-to-end approach and the ability to link and manage all processes throughout the entire development lifecycle, without compromising delivery schedules and quality. Complete ALM-PLM integration provides full traceability and transparency into all aspects of product and software engineering projects, from creation of requirements, to test cases and management of defects. It provides an easy way to generate documentation, identify the impact of changes and provide critical information for various types of stakeholders, including the consumer.

# CIMdata PLM Industry Summary

---

For further information about this solution, please

see <https://polarion.plm.automation.siemens.com/polarion-alm-plm-integration>.



[Click here to return to Contents](#)

## ***SOLIDWORKS Users Free to Create More Shapes, More Ways with New 3DXpert™ for SOLIDWORKS®***

6 February 2018

Today, [3D Systems](#) announced 3DXpert™ for SOLIDWORKS. By combining the tools that designers need from 3D Systems' 3DXpert with SOLIDWORKS from Dassault Systèmes, 3D Systems provides a distinct and exclusive advantage to all SOLIDWORKS users. The new 3DXpert for SOLIDWORKS product enables SOLIDWORKS users to prepare and optimize designs for both plastic and metal additive manufacturing.

3DXpert for SOLIDWORKS provides a new layer of tools, accessible in a familiar CAD environment, making it easy to prepare and optimize designs for additive manufacturing. By taking advantage of this design freedom, SOLIDWORKS users will now be able to produce complex geometries, light-weight parts without compromising strength, and apply surface texture to deliver functional or aesthetic benefits. Within the additive manufacturing environment, complex structures can easily become a reality, while enabling rapid product development, reduced time to market, and lower total cost of operation.

Capitalizing on the rapid advancement of additive manufacturing -- many analyst reports estimate industry revenue will top \$20B by the year 2020, customers are now shifting from rapid prototyping to mainstream production. Despite the projected rapid growth, designers are not fully exploiting additive manufacturing capabilities, simply because the way to get there is either not accessible or too difficult to navigate. 3DXpert for SOLIDWORKS provides an integrated solution that streamlines preparation and optimization stages from design to manufacturing.

To effectively design for additive manufacturing, designers must shift their mindset from what they know of traditional manufacturing processes, and employ the right design tools – making design an integral part of the manufacturing workflow.

### **Designers using 3DXpert for SOLIDWORKS will be able to:**

- Maintain design integrity by working with native CAD solids without converting them into STL, or toggling between several software programs to accomplish all tasks.
- Optimize structures with rapid creation of lattice-based structures for light-weighting and applying surface textures.
- Ensure quality printed parts by using real-time analysis for best-fit positioning and orientation of the part. Use of automated analysis and setting of support structures helps designers ensure surface quality and prevents part distortion.
- Accelerate preparation time by employing automatic features such as tray setup, and estimation of material usage and build time.

"We are excited to partner with Dassault Systèmes and help customers experience the reality of 3D

## CIMdata PLM Industry Summary

---

printing through the new 3DXpert for SOLIDWORKS offering," said Vyomesh Joshi, president and chief executive officer, 3D Systems. "This collaboration enables SOLIDWORKS users to create more shapes, more ways, and accelerate product development cycles while lowering costs. We are offering designers a true competitive advantage while re-defining the design and manufacturing process."

3D Systems brings more than 30 years of additive manufacturing experience and innovative technologies to SOLIDWORKS users. The new 3DXpert for SOLIDWORKS provides a direct path from SOLIDWORKS users' designs to additive manufacturing – allowing them to become more competitive and to expand the types of projects they can design.

"We've seen a tremendous increase in the adoption of additive manufacturing," said Gian Paolo Bassi, CEO, SOLIDWORKS, Dassault Systèmes. "As a result, we collaborated with 3D Systems to provide SOLIDWORKS users with the tools to help them design specifically for additive manufacturing, which requires a different set of operations and rules than more traditional, subtractive manufacturing. Available with all SOLIDWORKS 3D CAD subscriptions, 3DXpert for SOLIDWORKS allows designers to be able to optimize their design for additive manufacturing, check for manufacturability without any waste of time and material, and attain a competitive advantage in the market."

Available exclusively to SOLIDWORKS customers, and included in their annual subscription, the standard edition of 3DXpert for SOLIDWORKS is now available via download. Additional add-ons with advanced lattice design, lattice optimization tools, and a new 3DXpert for SOLIDWORKS Professional edition are available through SOLIDWORKS' VAR network. For more information on – or to download - 3DXpert for SOLIDWORKS, please visit the [3D Systems](#) website, or the [SOLIDWORKS](#) website.

 [Click here to return to Contents](#)