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CIMdata News

CIMdata Announces Successful 2015 North American Market & Industry Forum and Releases Its 2014 PLM Market Analysis

8 April 2015

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces the successful completion of its 2015 North American PLM Market & Industry Forum—the first in a series of five global events. This year's North American Forum was held in Ann Arbor, Michigan on 31 March 2015. There were 49 PLM industry participants representing 23 leading global PLM software and service providers.

CIMdata's PLM Market & Industry Forums represent the world's premier event for software and service providers focused specifically on the PLM market and the issues concerning its development and growth. Participants gathered in Ann Arbor, Michigan to hear CIMdata's perspective on the state and trends of the PLM market, as well as a detailed discussion of CIMdata's research and viewpoints on the 2014 PLM market results. CIMdata's extensive analysis and forecasts regarding market growth across PLM domains, industries, and regions, and the performance (revenue and market share analysis) of

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leading PLM software and service providers was shared.

The overall theme of the event was “Platforms for Innovation: PLM’s Next Evolutionary Step.” PLM is fast approaching the status of a business platform. PLM-as-a-platform, or the platformization of PLM, has evolved out of the need for innovation throughout the entire product lifecycle. Innovation is more than ever key to enterprise sustainability; solution providers are building their PLM-platform business models around that insight.

In the annual “State of PLM: Today’s Market and Leading Trends” address, Peter Bilello, CIMdata’s President, stated that, “The global PLM market had a good year, despite slower growth in Q1 and Q2, which was contrary to what we saw in 2012 and 2013.” When commenting on the trends in the industry he added, “It’s been a year since the concept of PLM-platformization was introduced. During that time it has become increasingly clear that PLM software and service providers who wish to compete at the enterprise business platform level must rethink their solution set strategy and reassess how they identify, assess, and assimilate their third-party partnerships.”

The agenda included sessions covering emerging trends in the market. The topics covered were based on the findings and activities of CIMdata’s PLM Knowledge Councils—a set of collaborative research communities that bring together leading end user companies and PLM software and service providers to help advance the state-of-the-art and best practices in emerging product lifecycle management disciplines.

Sessions included “Collaborative Innovation: A New Platform for Growth,” “Beyond Concept Modeling,” “The Platformization of PLM,” “Defining Strategies for Global Collaboration,” “Issues and Remedies for PLM Obsolescence,” and “The Internet of (Smart) Things.”

Commenting on the PLM market in 2014, Stan Przybylinski, CIMdata’s Vice President of Research, said “Calendar year 2014 was a solid year for PLM. The result was total revenues above our forecast.” Recent statistics compiled by CIMdata show that the PLM market experienced 6.8% growth in calendar year 2014 to \$37.2 billion. Mr. Przybylinski added, “There was growth in all segments, and simulation and analysis (S&A) continued its strong showing of the last few years.” Companies in many industries continued investing in PLM to achieve short-term benefits as well as long-term strategic value throughout the product lifecycle and across their extended enterprises. “CIMdata has long defined PLM as a strategic imperative to achieving long-term strategic value.” noted Mr. Przybylinski.

The North American PLM Market & Industry Forum is the first in a global series, with the next session scheduled for 9 April in Amsterdam, The Netherlands. Additional Forum sessions take place on 13 April in Pune, India, 17 April in Beijing, China, and 22 April in Tokyo, Japan.

The PLM Market & Industry Forums provide the first look at CIMdata’s PLM market estimates. The full analysis will be released in the CIMdata PLM Market Analysis Report Series. For more information, please see www.CIMdata.com.

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,

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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, 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.

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ESI Extends the Vision of the Virtual Prototype: a CIMdata Commentary

9 April 2015

Key takeaways:

- *ESI provides a vision of a “virtual prototype” that is comprehensive and includes manufacturing*
- *ESI is a leader in the capabilities of its solutions for manufacturing simulation*
- *End users are looking to ESI for simulation capabilities that include “as-manufactured” material properties and accurate representations of welding, bonding, tribology, and other manufacturing concerns*

While many PLM software companies promote digital models or virtual representations for accelerating new product development, ESI has a comprehensive vision of a “virtual prototype” that minimizes or even replaces physical prototypes and testing across the span of conceptual product engineering; detailed design development and validation and; perhaps most unique, design simulation for materials selection and manufacturing optimization.

With growing product complexities and the need for faster innovation, the product lifecycle process and organization reached its limit with inherent major drawbacks. ESI envisions a more holistic, next generation product lifecycle, not simply one in which digital modeling and simulation replaces isolated steps in the usual way of doing business.

ESI envisions simulation across a broader span of the product lifecycle, reaching to the “as built” rather than “as designed” product.

Dr. Alain de Rouvray and others founded ESI in France in 1973. The company was made public in 2000. ESI developed PAM-Crash for automotive crash safety simulation and, in 1986, conducted the first full-vehicle frontal crash simulation, using a model of a Volkswagen Polo. With the development of PAM-Stamp, ESI became a leader in the simulation of metal forming processes used in automobile manufacturing. Today, ESI has a broad portfolio of solutions for product performance *and* manufacturing process simulation. This allows for upfront deep understanding of the cause and effect relationship along the value chain, that guides reliable decision-making and avoids a long ramp-up phase and costly late design changes.

As an example, ESI's Virtual Performance Solution provides a platform based on a single core model for multi-discipline simulations and multi-domain optimization. Applications include structural stiffness and strength, crash, occupant safety, NVH and interior / exterior acoustics, comfort, durability, and high

velocity impact.

Additional tools simulate manufacturing operations (casting, composites, sheet metal forming, welding, and assembly). Simulation of physics domains like fluids, thermal, chemistry, and electromagnetics are available and may be coupled with each other and with structural simulation to solve multi-physics problems.

ESI also offers a high-end virtual reality solution, IC.IDO which is extensively used by major companies for collaborative and immersive design reviews, to evaluate and optimize assembly and disassembly sequences, to verify resources and tooling for both manufacturing and maintenance, and to visualize physics-based simulations. A heavy equipment manufacturer has full-scale immersive virtual reality (VR) facilities at its product engineering sites, where they focus on a few “high-value” applications that include ergonomics and operator visibility. These facilities use ESI VR tools. This end user stresses the importance of full scale for VR, and notes that these facilities are supported as part of their regular production IT systems and network.

Many companies have a goal for a completely digital product development process. They want complete digital descriptions of all aspects of their products, including models of product behavior. VW Group, for example, calls it “Simulation based Front loading.”

Simulation and analysis (specifically CAE) can, of course, be used to assess design performance. If the simulation is reliable enough, there is the possibility of a “virtual prototype,” which is an end-to-end digital process that does not require physical prototypes or development testing.

The virtual prototype is only feasible if a company has high confidence in their own capability. In other words, virtual prototyping is as much about process as it is about software tools. Every company has to develop their capability to their own satisfaction. It is not something that can simply be purchased off the shelf and deployed.

Companies, particularly those in the automotive industry, are making good progress. Product development times are much shorter, and physical prototype builds have been greatly reduced, or even eliminated. For some load cases, they have reached the goal of the completely virtual prototype. To do this requires an investment in developing a robust, repeatable, and reliable capability for simulation.

CIMdata has observed that industrial companies often work with their software suppliers to develop this capability. Some of this is software development; some of it is the methodology with which the software is applied.

The essential point here is to improve an organization’s engineering capability. Prototypes take too much time to create and test, are expensive, and are often not representative of the “as produced” product. The optimum engineering process (at a point in time) includes an appropriate mix of test and simulation. In time that balance will shift towards simulation as it gets better, faster, and cheaper, while physical testing does not.

Unfortunately, the goal of simulation is often presented as being to replace testing, particularly in large companies, where simulation and testing are separate functions—which creates tension and competition. Simply put, the CAE department’s proposition is “buy bigger computers for us and cut the budget for testing.” As a result, the test department campaigns against the reliability of simulation, and overall progress to a better, more reliable engineering capability is the casualty.

There is a persuasive argument that simulation and testing should leverage each other and be part of a flexible process for efficient product performance validation. ESI is implementing solutions that support this vision.

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Established space launch systems companies like United Launch Alliance (Boeing plus Lockheed Martin) and Airbus (Ariane) are now threatened by commercial competition from newcomers like Space-X. For a new space launcher there is no possibility for development testing and at most one launch test to prove the product before commercial operations begin. This means also that there is no opportunity to develop or “industrialize” manufacturing systems. They need to produce a viable product from the start.

ESI’s customers share their vision. They paint a picture of a PLM-enabled model-based environment where functional assessments include as-manufactured material properties and factors like welding, bonding, damping, tribology (lubrication and friction), fatigue, durability, and damage tolerance. They are looking to ESI to help them “get it right” the first time.

CIMdata agrees with this vision of a comprehensive, model-based approach to full product simulation. ESI’s strengths in traditional mechanical simulation and in manufacturing process simulation position them to deliver on this vision.

About CIMdata

CIMdata, an 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). CIMdata provides world-class knowledge, expertise, and best-practice methods on PLM. CIMdata also offers research, subscription services, publications, and education through international conferences. To learn more about CIMdata’s services, visit our website at <http://www.CIMdata.com> 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.

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Full Agenda Details Announced for the CIMdata Simulation & Analysis Workshop

8 April 2015

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces full agenda details for its upcoming Simulation & Analysis Knowledge Council workshop. The focus of this year’s workshop, the 12th annual, is “Leveraging Simulation for Competitive Advantage.” The workshop will take place at the Caterpillar Visitor Center in Peoria, Illinois and will run over two consecutive half days.

The workshop will start during the afternoon of April 29 and will end mid-afternoon on April 30. Highlights of the first day will include a personal tour of Caterpillar’s visitor center and museum, a keynote presentation on “Product Development: Keys for Success” from Caterpillar’s director of research and advanced engineering, Dr. Lou Balmer-Millar, which will be followed by a networking dinner.

The second day of the workshop, April 30, will cover the following key topics; simulation governance, platforms for simulation and analysis, and simulation data management. Attendees will hear from speakers from General Motors, Dana, Cummins, and Sandia National Laboratories. In the morning, GM’s Mary Fortier and Dr. Ramesh Rebba will make a keynote presentation on the topic of “Simulation Capability Metrics - A Quantitative Approach.” To round out the day, Dr. Barna Szabo, Co-

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Founder and President of Engineering Software Research and Development, Inc., will offer his unique perspective on simulation governance in a keynote presentation entitled, “Simulation Governance: An Idea Whose Time has Come.” In addition to the various end-user presentations, a small group of leading simulation solution providers will join a panel discussion on simulation at the leading edge.

Throughout the workshop CIMdata’s Simulation & Analysis Knowledge Council and a select group of leading-edge users will share how they have been able to create a competitive advantage by deploying simulation and analysis to facilitate product and manufacturing system development. CIMdata’s practice manager for Simulation & Analysis, Dr. Keith Meintjes, will facilitate the workshop.

For more information and details on the agenda visit <http://www.cimdata.com/en/education/knowledge-council-workshops/sa-workshop-2015/sa-agenda-2015>.

About CIMdata

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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, 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.

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Acquisitions

3D Systems Acquires Leading Chinese 3D Printing Sales and Service Provider, Expanding Its Regional Presence

6 April 2015

[3D Systems](#) announced today that it acquired Easyway Design and Manufacture Co. in China, including its wholly owned subsidiaries comprising the Easyway Group, creating 3D Systems China. Easyway is a leading Chinese 3D printing sales and service provider with key operations in Shanghai, Wuxi, Beijing, Guangdong and Chongqing. Terms of the transaction were not disclosed.

“We are excited to become part of 3D Systems, a leading provider of the most complete portfolio of 3D digital design and fabrication solutions available today,” said May Zhou, General Manager, Easyway.

“We plan to leverage our collective knowledge and experience for the benefit of our customers by building a stronger local presence and immediately delivering the full range of 3DS products throughout China.”

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Easyway brings to 3DS extensive and experienced greater China sales and service coverage, substantial service bureau production capabilities and long-term, key relationships with leading Chinese automotive, medical and consumer goods companies, including VW, Nissan, Philips, Omron, Black & Decker, Panasonic and Honeywell.

Concurrently, the company today announced the formation of 3D Systems China under the capable leadership of May Zhou, Easyway's founder. The acquisition provides 3DS with a strong platform to scale its in-country Quickparts custom manufacturing operations and multiplexes its 3D printing reseller coverage.

"We are thrilled to join forces with Easyway and together expand our business in China," commented Avi Reichental, President and Chief Executive Officer, 3DS. "With operations in key Chinese cities and well-established 3D printing sales and service bureau operations, Easyway represents the cornerstone of our expansion plans for China."

"We believe that the strong relationship and strategic fit between our companies, combined with Easyway's on-the-ground infrastructure, coverage and deep customer relationships, could present significant benefits for our customers, sizeable growth opportunities for us and long term value for our shareholders," concluded Reichental.

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Altair Acquires Multiscale Design Systems for Microstructural Optimization

7 April 2015

[Altair](#) today announced that it has completed the acquisition of Multiscale Design Systems, LLC, developer of MDS, a family of products focused on micromechanics, microstructural optimization, and life prediction of complex materials. The company's technology integrates modeling, simulation, testing, uncertainty quantification, and optimization of composite materials and structures at multiple spatial and temporal scales.

Known for its mathematical rigor and versatility, MDS will bring important new composites expertise to the Altair HyperWorks® suite, including multiscale analysis, stochastic design, fatigue analysis, and multiphysics simulation. A member of the [Altair Partner Alliance](#) since last year, MDS is already available to HyperWorks users, along with a number of other cutting-edge technologies related to composite materials analysis and simulation. A much tighter integration with Altair solvers RADIOSS® and OptiStruct® is expected in future.

"We will continue to develop, enhance, and invest in MDS as part of HyperWorks while retaining an open architecture approach with respect to other 3rd party solvers," said Uwe Schramm, Chief Technical Officer at Altair. "Altair is committed to creating good interfaces and continuing to build partnerships to excel in the domain of composite materials."

Since 2008, Multiscale Design Systems, LLC has won numerous Small Business Innovative Research (SBIR) and Small Business Technology Transfer (STTR) Phase I and Phase II awards. Focus areas include environmental degradation of high-temperature polymer and ceramic matrix composites subjected to thermal oxidation, thermal fatigue, moisture ingress, physics-based life prediction capabilities, modeling of concrete failure under blast and fragment loading, 3D nondestructive imaging techniques for mesoscale damage analysis of composite materials, and mechanical loading.

"We have partnered with a number of significant original equipment manufacturers to analyze state-of-the-art materials for automotive, aerospace, and defense," said Dr. Jacob Fish, co-founder of Multiscale Design Systems. "Altair's deep expertise in CAE, coupled with its significant footprint across a variety of industries, will help to extend the reach of our technology and increase its application."

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Company News

ANSYS Announces Elite Members for Multiphysics Channel Partner Program

7 April 2015

[ANSYS](#) announced today that five of its channel partners around the world have received Elite designation as part of its enhanced program to promote and support the adoption of comprehensive multiphysics solutions to meet customers' evolving technology requirements. The Elite status requires meeting steep requirements and certifies the channel partners to promote, sell, support and service the broad ANSYS multiphysics simulation portfolio.

The Elite Channel Partners for 2015 are:

- [CADFEM](#) GmbH in Germany, including its associates CADFEM (Suisse) AG and CADFEM (Austria) GmbH
- [Cybernet](#) Systems Co. Ltd. in Japan
- [ESSS](#) in Brazil
- [SimuTech Group](#) in the United States
- [TAE Sung Software & Engineering Inc.](#) in South Korea

The ANSYS Elite channel partner program, which includes Elite and Standard membership levels, promotes customer success by ensuring that channel partners meet stringent certification and resource requirements. Elite partners must have exceptional customer satisfaction rates, show consistent sales growth by meeting specific annual new business targets and employ technical and sales personnel who are fully certified by ANSYS.

"All ANSYS channel partners are experts in engineering simulation technologies and are known throughout the industry," said Ravi Kumar, director of the ANSYS worldwide channel program and emerging markets. "But our Elite partners are truly the best in their approaches to broadening the use of ANSYS technologies and pursuing our long-term vision of simulation driven product development. They must undergo a rigorous annual certification process to ensure they can meet the evolving technology needs of some of the best companies in the world. It's a real honor to work with these committed and passionate organizations, which are making significant contributions to ANSYS by enabling us to efficiently expand our market coverage and to support our customers' innovation initiatives worldwide."

Designed to increase the ANSYS reach globally, the ANSYS Elite channel partner program includes deep sales and technical training on ANSYS multiphysics solutions, certification, promotion and demand generation activities, access to collateral, field sales support and regular performance measurements.

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"It's a tremendous honor to be among the inaugural group of channel partners to earn Elite status," said Ken Lally, CEO of SimuTech Group. "We have a long history of working with ANSYS to bring its vision of Simulation Driven Product Development™ to organizations throughout the United States and Canada. Being an Elite channel partner will enable SimuTech to elevate our relationship and expand the use of engineering simulation even further."

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Autodesk Backs Carbon3D with \$10 Million from Spark Investment Fund

9 April 2015

[Autodesk, Inc.](#) today announced its \$10 million investment in [Carbon3D](#) from the [Spark Investment Fund](#). Carbon3D's innovative Continuous Liquid Interface Production technology (CLIP) addresses the current speed, mechanical properties and material choice limitations of the 3D printing industry, and promises to connect the digital thread from design through prototyping to 3D manufacturing by enabling the production of commercial quality parts.

In late 2014, Autodesk launched the Spark Investment Fund with the aim of investing up to \$100 million in entrepreneurs, innovators and startups who push the boundaries of 3D printing. The Spark Investment Fund is the first venture fund exclusively dedicated to driving the overall growth of the 3D printing ecosystem.

"We started the Spark Investment Fund to help drive the 3D printing industry forward," said Carl Bass, Autodesk president and CEO. "Carbon3D embodies the innovation that's required to change how products are made. The incredible speed of its CLIP technology makes 3D printing accessible for true manufacturing, beyond the prototyping and the one-offs we see it being used for now."

Current layer-by-layer 3D printing technology is slow and often produces parts that are mechanically weak due to their shale-like layers. Using a tunable photochemical process instead of the traditional mechanical approach, Carbon3D's CLIP technology eliminates these shortcomings to rapidly transform 3D models into physical objects. By carefully balancing the interaction of UV light, which triggers photo polymerization, and oxygen, which inhibits the reaction, CLIP continuously grows molecularly solid objects from a pool of resin at speeds of up to 100 times faster than conventional 3D printing technology.

"By working at the intersection of hardware, software and molecular science, we are aiming to fundamentally address the issues that have held 3D printing back from becoming a manufacturing process," said Dr. Joseph DeSimone, CEO and co-founder, Carbon3D. "We're honored to have an industry powerhouse like Autodesk recognize the transformative nature of our CLIP technology and engage with us in such a significant way."

Following their technology preview launch on stage at [TED 2015](#) and to the scientific community on the cover of Science Magazine, Carbon3D is focused on productizing the CLIP technology and will have an industrial machine available within the next 12 months.

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BigLever Partners with Method Park to Bring New Generation Product Line Engineering Innovation to Germany

8 April 2015

BigLever Software announced today that the company has established a partnership with Method Park, the German expert in software and systems engineering and process management solutions. By combining BigLever's industry-standard Gears PLE solution, new generation PLE methods and deployment expertise with Method Park's in-depth process management expertise and tools, the companies will enable mutual customers to realize the order-of-magnitude efficiency, productivity and time-to-market gains delivered by PLE.

"As German manufacturers in automotive and other industries are challenged to deliver highly sophisticated products with ever-greater feature diversity, they are looking for ways to dramatically reduce engineering and operational complexity," said Dr. Charles Krueger, BigLever Software CEO. "This has resulted in rapidly growing demand for a new paradigm of variation and complexity management. PLE has emerged to fill this need. BigLever is excited to join forces with Method Park to bring the latest PLE innovations to the German market."

"Customers will profit from the cooperation between BigLever and Method Park tremendously," said Bernd Hindel, CEO, Method Park. "With this partnership we bundle up our know-how and our solutions for all challenges of Product Line Engineering, which enables us to support our customers even more efficiently and faster with the gradual introduction of a systematic variant management."

PLE addresses the problems of product complexity and variant management by dramatically simplifying the creation, delivery, maintenance, and evolution of a product line portfolio. BigLever's Gears PLE solution enables a unified variation management approach across the full engineering and operations lifecycle using automated, feature-based production and engineering asset sharing. Method Park's Stages Process Management Suite and variant management process consulting services enables organizations to model the associated PLE processes for automated PLE workflow.

The BigLever / Method Park partnership will allow the companies to combine these capabilities and areas of expertise to help customers improve cross-functional communication and collaboration, break down organizational silos, and more effectively manage product variation – from product line portfolio planning to engineering, manufacturing, sales, and maintenance.

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Decernis LLC Announces Partnership with Siemens PLM Software for Global Regulatory Compliance Management in the Consumer Products and Food & Beverage Industries

8 April 2015

[Decernis](#) today announces a Consulting and Systems Integrator Alliance Agreement with [Siemens PLM Software](#). Decernis will integrate its global compliance management solutions with Siemens' product lifecycle software in order to assist consumer product, food, beverage, retail and distribution companies.

The need to determine the regulatory compliance status of a consumer product in any global market, at any stage from research & development to final customer delivery, is essential to the integrity and quality of a product delivered to a customer. The complexity of meeting product safety requirements

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around the world is made difficult by the lack of international harmonization, inherent complexity and frequent change.

With Decernis' compliance management solutions integrated with the client's product lifecycle management system, a manufacturer of consumer products is able to analyze and manage the global regulatory compliance status, hazards, and restrictions that apply to the ingredients and final product formulas at any stage of the product life cycle. Decernis will work with customers to integrate both its compliance management systems and news and horizon scanning systems with Siemens' product lifecycle management solutions. This will provide customers in the food, beverage, and consumer product industries with the capability to determine not only what is currently required but also what regulatory compliance requirements are changing in a global marketplace. To allow for global compliance coverage, Decernis delivers product safety management systems covering 180 countries.

The alliance with Siemens combines the unique global regulatory knowledge platform and PLM technology required to provide customers the solutions they need to serve their global markets more efficiently.

- Customers can leverage this partnership allowing the customization and delivery of integrated technology solutions they require.
- Such integrated technology solutions will allow companies to increase their speed to market at a reduced cost.

The alliance builds on the capability of both companies to deploy fully integrated systems to help customers more efficiently manage their operations worldwide.

“A growing number of our customers in the Consumer Products and Food & Beverage industry are focused on global regulatory compliance, labeling and claims across their products' lifecycle. The alliance with Decernis is an ideal complement to Siemens PLM Software's existing robust compliance management solutions and strategy. It is also an important step to help drive our customers' growth globally and minimize their risk-exposure through an integrated product and compliance platform,” said Helmuth Ludwig, Executive Vice President of Digital Enterprise Realization and Chief Manufacturing Officer for Siemens PLM Software.

“The compliance and safety of products in any country are critical concerns to the customer. Determining compliance status is an increasingly complex and difficult problem. We are delighted to partner with Siemens to deliver a solution that will enable a user to determine compliance status as well as to be informed of changing regulations through our platforms. I believe that the benefits will reduce time and delays and increase quality at each stage of the product lifecycle. Implementations of our compliance management systems have demonstrated a high multiple factor as a return-on-investment.” said Andrew (Pat) Waldo, CEO of Decernis.

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Delcam announces 'Free of Charge' software for Delcam Training Centers

7 April 2015

Recognizing the need for more technical training to be offered in order to bridge the skills gap, Delcam is waiving all fees for any non-profit organization incorporating its FeatureCAM and Delcam for SolidWorks CAM software in its manufacturing education programs. This applies to all non-profit

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institutions qualifying to Delcam Training Center (DTC) requirements in the United States and Canada starting from April 6th, 2015.

FeatureCAM Training Centers, the forerunners to the Delcam Training Centers, were introduced over 15 years ago to help prepare students that wanted to further their education in engineering or get knowledge and training for entry level jobs in manufacturing. Commenting on the new initiative, Delcam North America President, Glenn McMinn, said, "The program was created with the intention of allowing training centers the opportunity to properly train students and machinists with skills to seek employment effectively or to improve their current skills. With the U.S. manufacturing sector as competitive as it has been in decades for new jobs and investment, we are looking to build on this momentum in the classroom by improving our offerings in CAD/CAM."

The Delcam Training Center program allows students to program and create parts in their school's lab with full access to the 2.5D, 3D and turning modules within FeatureCAM, as well as 2.5D, 3D and turning modules for Delcam for SolidWorks. In addition, full seats of FeatureCAM and Delcam for Solidworks will be available to qualifying DTC, plus free access to Delcam's online training program, Delcam University.

Commenting on the new Delcam initiative, Brian Janes, a DTC instructor from South Central Kentucky Community and Technical College said, "I have used many of the CAM packages on the market today both in work situations and in teaching. The FeatureCAM package has unsurpassed power and is by far the easiest to use and most efficient software on the market. While a lot of CAM programs run the users through endless menus, FeatureCAM has a user interface that gets you right to the actual building and coding of the part model. The addition of the online training will help students and new users get up to speed even faster."

Delcam University, an online certification course, was built to conveniently meet the standards for helping bridge the skills gap in the manufacturing market for both students and teachers alike. Delcam University is an online program, allowing students to become certified in Delcam products. Self-paced classes can be taken anytime, anywhere, with 24/7 access to Delcam University, offering the flexibility to fit in qualifications around existing study and work commitments. Delcam University consists of a series of videos, written exercises and quizzes leading to certification. Teachers have the choice to either integrate the training into their daily curriculum or use it as homework, thus avoiding conflict with pre-existing curriculum.

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Digital Asset Approach Delivers Significant Financial Benefits for EPCs and OOs

7 April 2015

AVEVA has announced today the release of a new business paper: "The Digital Asset Approach - Defining a new era of collaboration in capital projects and asset operations". This paper focuses on the importance of the Digital Asset for both Engineering, Procurement, & Construction companies (EPCs) and Owner Operators (OOs). One of the consistent challenges in both major capital projects and asset operations is the availability to all stakeholders of trusted information for effective and timely decision-making. Through the collaborative creation, sharing and maintenance of a Digital Asset throughout the life cycle of its physical equivalent, all parties can improve their collective business processes and increase ROI.

CIMdata PLM Industry Summary

'The Digital Asset approach has been central to our product development for many years,' said Mat Truche-Gordon, Executive Vice-President – Business Strategy & Marketing, AVEVA. 'At AVEVA we want to help EPCs and OOs to work together more effectively to deliver on-time, on-budget projects and ensure reliable plant operations. We have seen this approach help our customers to "Unlock the Power of their Digital Asset" to support every stage of the asset life cycle.

'Having access to trusted information enables EPCs and OOs in capital intensive industries to make the right decisions at the right time. For projects, our customers are eradicating costly rework due to avoidable errors and miscommunication, and as a result are delivering better schedule assurance and capital control. In operations, having fast, easy access to asset information ensures our customers are increasing safety, reliability and plant availability.'

AVEVA's Digital Asset approach is unique, as it extracts greater value for customers from AVEVA's tightly-integrated authoring applications, and is also open and flexible, accommodating information from any source. This allows customers the complete freedom to continue to use any preferred applications for maximum benefit and minimum disruption.

"The Digital Asset approach –Defining a new era of collaboration in capital projects and asset operations" is available to download at www.aveva.com/en/digitalasset/businesspaper.

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IMAGINiT Technologies Honored with Top Autodesk Platinum Club Award

8 April 2015

[Rand Worldwide](#) today announces that its [IMAGINiT Technologies](#) division has earned a 2015 Autodesk Platinum Club Award at Autodesk's One Team Conference in Las Vegas, Nevada. IMAGINiT earned this coveted award by achieving the largest growth of any Autodesk partner in the United States.

"Autodesk is proud to announce the 2015 Platinum Club winners, and is grateful to all of the winners for their exceptional performance," said Steve Blum, senior vice president of Worldwide Sales and Services, Autodesk. "As a member of the Platinum Club for many years, IMAGINiT customers benefit from the team's commitment to deliver the highest levels of efficiency, competitiveness and innovation."

By choosing to work with IMAGINiT, it is IMAGINiT's customers that are truly behind every award. Rated highly for their rich industry experience and superior standard of customer satisfaction, IMAGINiT's high growth has been consistent across Canada and the United States. IMAGINiT's team of Autodesk certified experts and licensed engineers and architects continually work with customers to help design, simulate and analyze their ideas.

"Each time our team has been inducted into Autodesk's Platinum Club it is a tremendous honor and we are proud to receive the coveted Platinum Award again in 2015," says Tim Johnson, senior vice president, IMAGINiT Technologies. "Beyond the team's deep industry experience, extensive professional services and unrivalled customer support, this award tells a bigger story. It's the result of having passionate people across North America who all share the one objective of driving business value for their customers."

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Luxion Growth Continues with Move to New US Headquarters

7 April 2015

Luxion is proud to announce the company's new corporate headquarters in the continued growth and expansion of the company known for software development in the areas of lighting and real-time rendering technology.

The new Luxion headquarters is located at 15143 Woodlawn Avenue, Tustin, California, 92780, in the heart of Orange County at the Pacific Business Center, just off the I-55 freeway and minutes away from John Wayne International Airport. With over 5,000 sq. ft. of creative space, the two-story building will serve as the central location for Luxion sales and customer support activities as well as support for marketing and development efforts.

"We are thrilled with how far the company has come and the opportunity to open the new headquarters," say Claus Wann Jensen, CEO and Co-founder at Luxion. "With this larger office, we have a great location, ample meeting space and the room needed to support continued growth."

Luxion also established an office in Brookline, MA in 2013 and expanded their development office with the move to a larger location in Aarhus, Denmark in 2014.

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Meghan Summers-West Named President of CNC Software, Inc.

7 April 2015

[Meghan Summers-West](#) has been appointed president of CNC Software, Inc., the developer of [Mastercam](#)[®] CAD/CAM programming software for CNC machine tools. Former president, now chairman, [Mark Summers](#) made the announcement to all 139 employees on Thursday, April 2 at the company's headquarters in Tolland, Connecticut. Its educational division staff located in Gig Harbor, Washington, participated in the celebratory announcement via teleconference.

"As many people close to the Summers family know, this transition has been almost 32 years in the making. My daughter Meghan was born the same year that my brothers and I officially launched Mastercam and established CNC Software, Inc. in 1983," Mark Summers said. "As a father, I am proud. As a business owner, and to all of you who have contributed so much of yourselves to make this company successful, I am wholly confident in this decision. For the majority of you who have watched Meghan grow up in these offices and have been impressed by her warm and direct leadership style, her curiosity and willingness to learn, her product knowledge, and her overall intelligence, I know that you are certain, too, that the future of our flagship product Mastercam and our organization is in very capable hands."

Summers also said that with the rapid consolidation of many CAD/CAM companies, this decision represents a continuation of CNC Software's deep, personal dedication to Mastercam and to

CIMdata PLM Industry Summary

Mastercam's global customer base. He emphasized that appointing Meghan also demonstrates that the company remains a private entity. This is important for both employees and customers as it represents the least amount of potential change for the company.

"We answer to our customers rather than a board of directors, and we intend to stay that way. Today is a very happy day," he said.

Meghan Summers-West also spoke to the crowd. "Today is two things. It's an acknowledgement of all I have worked for and desired since I can remember. It's also, more importantly, the beginning of the *next* 30-plus years for Mastercam and CNC Software," she said. "I am honored and excited to take on this role and to continue to work with the sincerest and smartest people in our industry – you and our dedicated and loyal worldwide reseller network and our bright, innovative customers.

"Mastercam plays a vital role in changing lives for the better. It's used in all facets of industry, from helping to make life-saving medical devices for the human body to parts for planetary exploration, expanding our knowledge of the universe. Mastercam boosts personal and industrial productivity, supporting our global economy as a whole. Mastercam for educators and students helps train future machinists, engineers, and programmers – people who create, solve problems, and enjoy good incomes and satisfying careers. Mastercam touches almost every person in every place in some way. We are changing the world, one feature at a time. As such, my intention – with your valuable contributions – is to continue to evolve Mastercam by anticipating manufacturers' and technology teachers' needs and wants for decades to come."

Ms. Summers-West has served as Operations Manager at CNC Software since 2009. She earned a Bachelor of Science degree in Business at Bentley College, Massachusetts and an MBA in Management at Hawaii Pacific University. In 2014, the Society of Manufacturing Engineers named her one of the "30 Under 30 Future Leaders of Manufacturing". She serves on the Young Professionals Group for HVCC, the local food pantry and human services agency. She also participates in the School to Business Partnership as well as interview days and career fairs at several local schools. She resides in Vernon, Connecticut with her husband and their two children.

Current executives at CNC Software, Inc. will continue in their leadership roles. [Brian Summers](#) is vice president. [Gary Hargreaves](#) is vice president – business development and [Rich Norton](#), corporate controller. [Mark Summers](#) will also be involved in the daily operations of the company.

According to the most recent analysis of CAM software seats produced by CIMdata, Inc. shows that CNC Software's Mastercam is the world's most widely used CAM software for the 20th straight year. With over 200,000 installed seats worldwide, Mastercam has nearly twice the installed base of the closest competitor.

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Moldex3D's \$1.625 Million Gift to Boost Education and Research at CU-ICAR

2 April 2015

CoreTech System (Moldex3D) Co., Ltd, announced a donation of a \$1.625 million gift to support education and research at the [Clemson University International Center for Automotive Research \(CU-ICAR\)](#).

The gift includes 25 seats of the latest [Moldex3D Advanced package](#) and [Solution Added-on](#) modules

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including [Fiber](#) and [MuCell®](#) that will provide hands-on training for students, faculty and professionals in Clemson's [Automotive Engineering Academic Program](#). Clemson will be one of the first universities in the Southeast that incorporate Moldex3D into their academic curriculum and training for industry personnel.

"I am thrilled to have Moldex3D as the newest corporate partner for CU-ICAR, and I thank them for their support," said Clemson University President [James P. Clements](#). "They are true industry leaders, and I know that our students and faculty in automotive engineering will benefit greatly from being able to use and learn from their software."

Dr. Anthony Yang, President of Moldex3D Northern America, said it is our responsibility to assist the academic world in nurturing the next generation by offering its state-of-the-art simulation technologies and resources.

"As the world's largest independent CAE software developer, we are truly pleased for the opportunity to partner with Clemson University, which has one of the most elite [automotive](#) engineering programs in the world, to help students gain more practical hands-on CAE experiences and further equip them with a viable simulation ability to compete in the future job market," he said.

The software will advance Assistant Professor [Srikanth Pilla's](#) research and educational capabilities in injection molding, specifically on supercritical fluid assisted foam injection molding.

"This gift enhances the unique capabilities that we can do in my research lab at CU-ICAR and will prepare students for industry with hands-on experience," Pilla said. "When using thermoplastic materials for body panels, interior parts and other components, injection molding with Moldex3D software is an important technology."

"Moldex3D's simulation capability advances the fundamental understanding of my research lab's experimental research and reduces overall costs by being able to understand process physics and properties involved prior to physical experimentation," Pilla further said. "With existing experimental infrastructure that includes the nation's only integrated MuCell® molding machine, this gift will further position Clemson and our lab at the forefront of injection molding research and training."

According to the Dean of Clemson's [College of Engineering and Science](#), [Anand Gramopadhye](#), the college's strategic plan calls for providing cutting-edge translational research experiences for its students.

"This software gift from Moldex3D will help us meet this strategic objective, while allowing Dr. Pilla to significantly advance his research in injection molding, thereby providing unique real-world experiences for our students," said Gramopadhye. "We are grateful for Moldex3D's support."

Dr. Anthony Yang, President of Moldex3D Northern America further added that the software donation is just the beginning of this joint collaboration.

"We believe that both Moldex3D and Clemson will benefit greatly from this collaboration and we are confident that this will continue to move forward with efforts from both sides," he said.

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Okuma Announces Siemens PLM Solutions Partner Joins Partners in THINC

8 April 2015

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[Okuma America Corporation](#) is pleased to announce that Siemens PLM Solutions Partner has joined Partners in THINC. Members of Partners in THINC provide superior technologies that are integrated with Okuma's CNC machines and controls to deliver advanced manufacturing system solutions.

Siemens PLM Solutions Partner, VMH International, provides integrated software solutions from Siemens, VoluMill, and CGTech VERICUT. VMH evaluates organizations' parts and processes to determine the best combination of design, manufacturing, tool path, and machine simulation software, and to develop a custom mentoring and training strategy. This approach helps ensure that companies perform in the most efficient way possible to improve quality, reduce cycle time, and increase profitability.

"VMH is excited to be a part of the Partners in THINC program," said Vern Heyer, CEO of VMH International. "We are committed to collaborating with Okuma and our fellow Partners and leveraging our unique suite of software and services to help Okuma's customers streamline and advance their manufacturing capabilities."

As a member of Partners in THINC, Siemens PLM Solutions is working with Okuma and other partners to provide practical solutions to manufacturers' real-world concerns. Their expertise lies in providing customized, industry-specific services, whether that is implementing the right CAD/CAM/PLM software suite, training customers' teams to get them running efficiently, custom post-processor development, and anything in between.

"The addition of Siemens PLM Solutions to Partners in THINC further expands the CAM capabilities inside our group. The Siemens NX CAM software is used by many industry segments (Aerospace/Medical/Agricultural-Construction/Automotive/Energy/Die-Mold/Fluid Power) thus its addition will help ensure that Okuma machines' advanced capabilities and features can be fully utilized by global users of the NX software," said Jeff Estes, Director of Partners in THINC.

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Siemens PLM Software Awarded 5-Star Rating in CRN's 2015 Partner Program Guide

10 April 2015

Siemens' product lifecycle management (PLM) software business has been awarded a 5-Star rating in The Channel Company's CRN 2015 Partner Program Guide. This is the ninth straight year that Siemens PLM Software has received this designation. In addition, CRN recognized Jeff Zobrist, Siemens PLM Software's Vice President of Global Solution Partner Sales, as a 2015 CRN Channel Chief.

The annual directory is the definitive listing of technology vendors that service solution providers or provide products through the IT channel. The 5-Star Partner Program rating recognizes an elite subset of companies that offer solution providers the best partnering elements in their channel programs.

Siemens PLM Software's Channel Partner Program supports a community of 750 partners, employing over 8,000 professionals around the world. Together, Siemens and its channel partners help customers – large and small, across numerous industries and geographies – realize innovation by sharing best practices, experience and technology. These best practices have been deployed within some of the most respected manufacturers around the world. The program enables Siemens' partners to deliver quality and lifetime value to its customers while supporting the partners' unique business drivers. Three strategic

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partnering pillars serve as the foundation of the program - Smart Business, Innovative Approach, and Shared Success.

To determine the 2015 5-Star recipients, The Channel Company's Research team assessed each vendor's application based on investments in program offerings, partner profitability, partner training, education and support, marketing programs and resources, sales support and communication.

"Solution providers have a lot of choices when it comes to selecting vendor partners. Identifying the right vendor, with the right technologies, and the right approach can make all the difference," said Robert Faletta, CEO, The Channel Company. "Our annual Partner Program Guide and 5-Star rating recognizes the very best channel programs available in the market today to help solution providers determine which vendor delivers the best partner elements for their individual business goals."

"To receive this honor for the ninth straight year is a testament to the dedication, commitment, and consistency of our extended channel partner team working with and supporting our channel partners across the globe every day," said Zobrist. "As Siemens' PLM software portfolio continues to expand, so do the opportunities for our existing channel partners and other solution providers looking to enter the growing PLM market. By staying focused on the needs of our mutual customers, Siemens PLM Software is evolving and designing new, exciting programs to help our partners expand their product and services offerings while developing deep specialization in domains that align with their business objectives."

The 2015 Partner Program Guide will be featured on CRN.com and the 5-Star Partners listing will be highlighted in the April issue of CRN.

CRN also placed Jeff Zobrist on its prestigious list of 2015 CRN Channel Chiefs which represents the most powerful leaders in the IT channel who hold direct responsibility for driving growth and revenue for their organizations through their partners. Individuals are selected based on their track record of channel accomplishments, standing in the industry, dedication to the partner community, and plans for driving future business innovation and channel growth.

"On behalf of Siemens PLM Software, and our extended channel team, I am personally honored to be named a 2015 Channel Chief. Siemens PLM Software has a strong foundation and compelling partner program with mutually rewarding partner relationships. We will continue to listen to our partners and customers so we can develop and deliver robust programs to reduce costs, maximize margin contribution, and acquire premium customers."

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Siemens Provides McMaster University with \$458M Software Grant for Product Design and Development

10 April 2015

A multi-million dollar software grant from Siemens' product lifecycle management (PLM) software business will give students at McMaster University in Hamilton, Ontario the opportunity to use the same technology in its design and manufacturing research programs that businesses around the world employ to design some of today's most sophisticated products.

The in-kind software grant, with a commercial value of more than \$458 million, includes Siemens'

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NX™ software, Teamcenter® portfolio, Tecnomatix® portfolio, LMS™ solutions, the Fibersim™ portfolio and the Syncrofit™ portfolio. These software offerings represent a comprehensive set of solutions for computer-aided design and manufacturing, finite element analysis, lifecycle data management, digital manufacturing, systems engineering, simulation/test, and multi-material/composites design optimization. Siemens is a leading global provider of PLM software and services for a wide variety of industries including automotive, aerospace, machinery, medical devices, shipbuilding and electronics.

The grant announcement was made today during the McMaster Manufacturing Forum, a full-day event held at the McMaster Innovation Park, McMaster Automotive Resource Centre and a number University campus labs, which brought together industry experts, research staff, faculty, students and other stakeholders and included panel discussions, information sessions and an industry open house. The forum's theme this year is *Manufacturing a Renaissance: A Made in Canada Solution*.

Engineering students and faculty will use the sophisticated software at the McMaster Manufacturing Research Institute, one of the largest institutes of its kind in Canada. The 15,000-square-foot facility is designed to meet the complex needs of leading manufacturers in the polymer, automotive and aerospace industries, as well as the tool, die and mold industry.

The software will help enable students to develop the advanced skills required by the more than 77,000 global customers who already use Siemens' PLM software and technology solutions, including 29 of the world's top 30 automakers and 18 of the top 20 aircraft and engine original equipment manufacturers.

Siemens places great emphasis on collaboration with Canada's academic institutions. Since 2014, Siemens Canada has signed seven memorandums of understanding (MOUs) with colleges and universities in Ontario and Alberta with the aim to provide enhanced support and training for tomorrow's skilled workforce, fostering innovation and driving economic activity in Canada. MOUs currently exist with McMaster University, Mohawk College, Seneca College, Sheridan College, University of Waterloo, University of Alberta (Edmonton) and North Alberta Institute of Technologies (Edmonton).

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Zuken Joins Automotive Industry Leaders to Address Sector Challenges

9 April 2015

This spring Zuken joins some of the best and most influential minds in the automotive industry to address current challenges in the sector. Reinhold Blank, Business Director Automotive at Zuken, speaks at two key industry events to discuss solutions for automotive electrical/electronic design challenges. These include reducing cost and weight in wiring harness design while increasing functionality, and managing high-speed design interfaces as a global team.

“These events, held in the automotive strongholds of Detroit, USA and Ludwigsburg, Germany, are great opportunities for us to share experiences and discuss future requirements, as well as potential solutions, with leading automotive experts. Many attendees are customers since Zuken has a market share of around 40 percent worldwide in the area of electrical schematics in automotive. As part of our automotive growth strategy, we are working hard to extend our technical and market leadership in this area.” - Reinhold Blank, Business Director Automotive at Zuken

Join Zuken at SAE World Congress

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You can catch Reinhold Blank sharing more than 25 years' experience in the industry at SAE 2015 World Congress, Detroit, USA, from April 21-23:

- Blank takes a tour of some of the hidden areas where the potential for cost savings has yet to be realized, in: "How to save \$20 per car by Optimization of the E/E System" (April 21, 1:00pm)
- In "EE Architecture – the Real Competence Field for Automotive OEMs", Blank showcases an approach recently adopted by several OEMs that has resulted in increases in quality, cost savings, and efficiency (April 22, 8.30am).

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Events News

Aras ACE 2015 Conference to Include Presentations and Roundtables with Imperial Tobacco, Sonnax, Microsoft and others

6 March 2015

Aras® today announced presentations and roundtable discussions with Amscan, Boeing Insitu, Gentex, GETRAG, Imperial Tobacco Group, Nidec Motor Corporation, Sonnax and others at the ACE 2015 conference. Sessions will revolve around the conference theme Rethink PLM, and sessions are designed to encourage interaction, learning and networking. Details, agenda and registration at <http://www.aras.com/ACE2015>

Topics will include systems engineering, visual collaboration, enterprise change, supplier collaboration, manufacturing & quality, Agile implementation techniques and more. Global leaders will discuss how they have transformed their business and driven their PLM strategy with Aras to get results.

ACE 2015 is the best place to benchmark and collaborate with other forward thinkers on new approaches. Sessions are designed to encourage peer-to-peer interaction, so attendees can find out how others are approaching complex PLM challenges and get ideas to bring back to their own companies to implement.

Attendees will also have the opportunity to participate in product workshops and roadmap discussions to guide the Aras direction.

Date: April 21 – 23, 2015

Location: Detroit Marriott at the Renaissance Center, Detroit Michigan

Cost: Free to Attend – No Fee (Space is Limited – Registration Required)

Details and Registration: <http://www.aras.com/ACE2015>

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Delcam CRISPIN's new ShoeMaker Pro for Footwear Design at Jinjiang Expo

10 April 2015

At the Jinjiang Footwear Expo to be held in Fujian, China, from 18th to 21st April, Delcam CRISPIN

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will launch the new release of its [ShoeMaker Pro](#) CAD software for the design of all types of footwear includes special editing tools to adapt an existing sole to a new upper design. The 2015 R2 version also incorporates more efficient tools for upper design, such as edge gimping, stitch-down simulation and a new jewellery library, plus improvements to the KeyShot rendering and the ability to export models in Apple's iBook Widget format for viewing on iPads and iPhones.

The Delcam CRISPIN stand will also display the winning designs in the company's recent footwear design competition.

ShoeMaker Pro is the only CAD program for the footwear industry that integrates fully the 3D design of uppers and soles, so allowing the complete 3D CAD model of the shoe to be developed and visualised within a single system. This integrated approach benefits all footwear designers, but is particularly advantageous for companies making sports shoes and other designs that include complex soles.

In ShoeMaker Pro 2015 R2, it has been made easier to take an existing sole design and adapt it to a new upper design. Using an existing sole design can shorten the overall development process, while the new alignment tools make 3D modelling of the shoe quicker and easier.

Two new tools allow the shape of the sole to be edited, either by using the bending tool to match a flat sole to the profile of the upper or by using the box morphing tool to reshape the sole to match the last.

Another new option allows stitch-down construction to be modelled. As with the other stitching options in ShoeMaker, various types of stitching can be trialled, with different stitch sizes and spacing.

The main enhancement to the KeyShot rendering in ShoeMaker is the ability to produce a render of a pair of shoes by mirroring the design automatically to generate the second shoe in the image. Once they have been created, the pair exist as separate models within KeyShot so their positions and colouring can be altered independently. The new version also recognises any duplicated features in the model, such as a set of eyelets around the lace holes, and treats them as 'instances' of the same geometry. This gives a 'lighter' model that can be imported into KeyShot, and then moved within it, more quickly.

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Fujitsu to Host Fujitsu Forum 2015

3 April 2015

Fujitsu announced that Fujitsu Forum 2015, the company's largest annual event, will be held May 14-15 at the Tokyo International Forum in Japan. The theme of this year's Fujitsu Forum will be Human Centric Innovation in Action.

By working with customers to build new ecosystems and realize innovation, Fujitsu seeks to create a prosperous future where people can live their lives in comfort and security. Fujitsu Forum 2015 will introduce new and effective ways to use ICT, including examples of Fujitsu's own internal deployments.

With rapid advances in digitalization and evolving technologies, the world is becoming ever more closely connected. In addition to enhancing people's lives and making them more convenient, this trend is bringing significant changes to business and the management environment, presenting new opportunities for companies to grow beyond the bounds of traditional frameworks.

On the other hand, there are also numerous challenges that threaten society's sustainability, such as issues related to food and energy supplies, urbanization, natural disasters, and economic disparity. In an

effort to overcome these challenges, Fujitsu is leveraging the power of ICT.

This year marks Fujitsu's 80th anniversary and Fujitsu Forum 2015 will highlight its accelerated drive to create innovation in a new era with the theme - Human Centric Innovation in Action. Fujitsu Forum 2015 will feature a variety of seminars and exhibits to demonstrate new ways of using ICT, including with regard to IoT, Big Data, mobile and other digital technologies.

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Gather at ZWSOFT GPC 2015 to Explore More Product Value of CAD

7 April 2015

[ZWSOFT](#) is welcoming its global partners to attend its 2015 Global Partner Conference (GPC) in Guangzhou, China on April 8th-11th.

Theme of This Year: To Be Different

This year's theme "To Be Different" speaks volumes about ZWSOFT's current competitive edge. The product line of ZWSOFT is so versatile that it ranges from the 2D platform, vertical industries, and mobile app to 3D design, aiming to provide new and all-round design experience for CAD users.

On this grand occasion, ZWSOFT will mainly share recent achievements in product development, collect feedback for its future product roadmap and discuss business strategies with partners worldwide.

Versatile ZWCAD Products to Guarantee Customer Satisfaction

[ZWCAD+ 2015](#) is the spotlight of many ZWCAD products in 2014. With ZWCAD+ 2015 Beta, ZWCAD+ 2015 and ZWCAD+ 2015 SP1 respectively released in last August, September and December, all of the versions are well-received by users, especially enhancements like Unicode and Google Earth Import and Export, etc. New amaze of ZWCAD+ will be shown at this conference.

Apart from enhancement of the platform, ZWCAD+ has also made efforts in the mobile-field expansion. [CAD Pockets](#), the extended product of ZWCAD+ for mobile, is formerly known as ZWCAD Touch. Different from other mobile CAD, it is amazingly fast, easy-to-use and integrated with many effective design tools. At GPC 2015, attendees will witness more versatile mobile design experiences with CAD Pockets.

In various specialized fields, ZWCAD also provides solutions. [ZWCAD Mechanical 2015](#), independently developed by ZWSOFT and released last December, is a specified design software for manufacturing. In the architecture field, [ZWCAD Architecture 2015](#), which was also released last December, is an efficient specialized design tool for architects. The innovative integration with Google Earth makes design in the real world realistic. The two professional design tools will demonstrate new progress during the conference.

The New Heights of ZW3D CAD/CAM Software

For 3D CAD/CAM solutions, the latest version of [ZW3D 2015](#) was released earlier this month. It empowered more flexible 3D modeling with customer-driven developments and boosted CNC machining speed with user-friendly advancements. Partners will gain more detailed information about this new product.

The upcoming GPC 2015 will strengthen the global partnership and in turn vitalize ZWSOFT CAD products. More conference information will be delivered. Please stay tuned.

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GRAITEC Announces European BIM Tour 2015 across 18 Cities in 8 Countries

6 April 2015

GRAITEC announces a first-of- a-kind European BIM Tour across 18 cities in 8 countries.

Kicking off with the first event in Newcastle, UK on the 14th April 2015, the GRAITEC European BIM Tour will visit eight countries; France, UK, Germany, Poland, Czech Republic, Slovakia, Italy and Romania, in eighteen major cities over a four month period, reaching thousands of industry professionals in the construction, infrastructure and manufacturing space.

GRAITEC European BIM Tour attendees can expect to discover industry proven 'best BIM practices' whilst exploring an extensive portfolio of the latest advanced BIM technology. GRAITEC will also explain how customer-centric advice, development and support services can help businesses who are new to BIM define a strategy to rapidly and efficiently adopt BIM successfully, whilst simultaneously identifying key praxis to refine mature BIM environments.

GRAITEC aims to share years of experience in helping customers develop and implement integrated BIM technology strategies and processes, across all types of industries and environments. GRAITEC has extensive practical experience and those present will receive an honest account of valuable lessons learned including 'time-consuming and expensive pitfalls to avoid' and 'proven and successful practices to consider' enabling them to make informed and intelligent business decisions.

GRAITEC European BIM Tour, delivered across all the GRAITEC Autodesk Platinum Partner regions, is supported by Autodesk, as well as local industry specialists and GRAITEC customers, who will share their experience of BIM Implementation. To learn more about the GRAITEC European BIM Tour, which cities will be visited or register to attend, please visit www.graitec-bim.eu

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ZWSOFT GPC 2015 Launched with Fountains of Inspiring Ideas

9 April 2015

[ZWSOFT](#) launched its 2015 Global Partner Conference (GPC) in Guangzhou, China. The first day of the conference featured inspiring ideas from ZWSOFT management, CAD expert Roopinder Tara and SAIC Co., a ZWSOFT partner, shedding light on industry trends, future prospects of ZWSOFT products and partnership.

CAD Trends 2015 in Experts' Eyes

Roopinder Tara, CEO of Tenlinks, a famous CAD media in North America, delivered a speech about the CAD trends. In his opinion, the major players in the CAD field tend to diversify their product lines, catering to more design needs from vertical industries like architecture, machinery and mobile

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collaboration, while CAD for general usage will experience more downward cost pressure. Many robust CAD products will be sold for hundreds of dollars and even given away for free.

Future Prospects of ZWSOFT Products

Echoing to Roopinder's opinion for CAD trends 2015, Truman Du, CEO of ZWSOFT shared with all the audience ZWSOFT's strategy to stand out from the competition.

"In the ever-changing CAD world, customer is the dominant power of development. Developing great products, providing better services to customers is the best strategy to deal with the change," said Du. "The prosperity of ZWSOFT's overseas business has everything to do with our burgeoning global channel network. ZWSOFT will release different innovative products in 2015, both 2D and 3D. ZWCAD+ 2016 will support cross-platform design and bring more smooth experience. Functionality and ease-of-use will be the future of ZWSOFT products."

Why choose to be a partner of ZWSOFT

For a long time, partners have played a key role in delivering ZWSOFT's product value to end users. Inspired by Truman's and Roopinder's talks, Mr. Tsay, CEO of SAIC, a ZWSOFT distributor in Taiwan shared his experience as a long-term partner of ZWSOFT.

"Why did we choose to stand with ZWSOFT for so many years? First, because of the product. With frequent contact with ZWSOFT, we found ZWSOFT always insists on product quality, which is highly impressive, and we believe ZWCAD will become the best product in the future. Second, CARE. ZWSOFT cares! We care about customer satisfaction, the improvement and stability of products, and services. We care if resellers can make profits and provide satisfactory services to customers. ZWSOFT also cares about them, so they do their best to support us and the market."

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Financial News

Dassault Systèmes Schedules First Quarter 2015 Results Webcast and Conference Call for April 23, 2015

10 April 2015

[Dassault Systèmes](#) will host a webcast and a conference call on Thursday, April 23, 2015, to discuss its operating performance for the first quarter 2015 ended March 31, 2015.

The management of Dassault Systèmes will host the webcast at 8:30 AM London Time - 9:30 AM Paris Time and will then also host the conference call at 9:00 AM New York Time - 2:00 PM London Time - 3:00 PM Paris Time.

Both the webcast and the conference call will be available via the Internet by accessing Dassault Systèmes' website at <http://www.3ds.com/investors/>.

Please follow the directions on the main page to link to the audio and connect to the website at least fifteen minutes prior to the webcast or conference call to register, download and install any necessary software. The webcast and conference call will be archived for 1 year.

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EMC to Announce First-Quarter 2015 Financial Results on April 22

9 April 2015

EMC Corporation will publish its first-quarter 2015 financial results on April 22, 2015 at approximately 7:00 a.m. ET. EMC will also issue an advisory news release on April 22, 2015 announcing availability of the results via the EMC Investor Relations (<http://www.emc.com/ir>) and the U.S. Securities and Exchange Commission (<http://www.sec.gov/cgi-bin/browse-edgar?action=getcompany&CIK=0000790070&owner=exclude&count=40>) websites.

EMC will hold a conference call for investors at 8:30 a.m. ET on April 22 to review the first-quarter 2015 financial results. A live webcast of that call will be available on the EMC Investor Relations website.

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PTC Announces Preliminary Second Quarter FY'15 Results

6 April 2015

[PTC](#) today announced that it expects revenue for the second quarter FY'15 ended April 4, 2015 to be slightly above the mid-point of the \$305 million to \$320 million guidance range. License & Subscription Solutions (L&SS) revenue is expected to be slightly below the mid-point of the \$80 million to \$95 million guidance range. The Company expects Subscription Solutions bookings, as a percentage of L&SS bookings, to be slightly below 15% for the second quarter FY'15 and above 15% on a year-to-date basis.

In addition, PTC announced that it is realigning its global workforce to increase investment in its Internet of Things business to capitalize on the substantial growth opportunity in that market and to reduce its cost structure through organizational efficiencies in the face of significant foreign currency depreciation relative to the U.S. dollar and a more cautious outlook on potential global macroeconomic conditions. The Company expects to reduce its annualized operating expense run-rate by approximately \$30 million, with the full impact being achieved as it exits the third quarter of fiscal 2015. In addition, PTC continues to assess its overall pricing structure within the broader scope of its pricing, packaging, and licensing strategy.

James Heppelmann, President and CEO, said, "This realignment better-positions PTC to sharpen our strategic focus, optimize investments and deliver on long-term growth and profitability objectives."

Management expects approximately 7% of worldwide positions (approximately 450) to be repurposed or eliminated, and to consolidate select facilities. These actions will result in a restructuring charge of approximately \$45 million, the majority of which is attributable to termination benefits. Approximately \$41 million of the restructuring charge will be recorded in PTC's second quarter ended April 4, 2015, with the remainder expected to be recorded in the third quarter ending July 4, 2015, and paid primarily in PTC's 2015 fiscal year ending September 30, 2015.

PTC will release its fiscal 2015 second quarter results on Wednesday, April 29 after the stock market closes. Senior management will host a live webcast and conference call to review the results on

Wednesday, April 29 at 4:30 pm Eastern Time. The earnings press release and accompanying prepared remarks will be accessible prior to the conference call and webcast on the Investor Relations section of the Company's website at www.ptc.com.

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Implementation Investments

PSA Peugeot Citroën depends on hyperMILL from OPEN MIND

8 April 2015

At its Mulhouse plant in Alsace, PSA Peugeot Citroën depends on hyperMILL®, a CAM/CAD system from OPEN MIND Technologies AG. The car manufacturer produces aluminium moulds and tools for forging and thermoforming at the plant. Since introducing hyperMILL®, PSA has benefited from the numerous options for automation offered by NC programming.

In the past, PSA employees had to write their own macros if they wanted to make it easier to program recurring geometric shapes. The macros were time-consuming to maintain, and constantly had to be adapted to new software versions. In the search for new CAM software, hyperMILL® stood out as the obvious choice because it offers numerous options for automated programming; intelligent macros are just one example. Today, the software is being used in all areas.

“hyperMILL® is a forward-looking solution offering innovative technologies for 2D, 3D, HSC, mill/turn and 5x machining. We were impressed by its intuitive user interface, its simple and transparent management of complex processes and its straightforward way of including user-defined macro instructions and maintaining them in later versions,” reports Laurent Sifferlen, who is responsible for tool and CAD/CAM quality in the PSA workgroup.

Serge Locher, a programmer at PSA, explains: “We were able to automate the transfer of CAD models from CATIA, and discovered in the process that we were able to eliminate all of the sources of errors that can arise during automation, for example during drilling. We could reuse our macro instructions for drilling or machining work and use them to create new instructions directly in hyperMILL®.”

Roughing with hyperMAXX®

The PSA plant in Mulhouse employs hyperMAXX®, a high-performance cutting module. Fully integrated into hyperMILL®, this roughing module ensures optimal milling paths and maximum material removal. It translates into time savings of roughly 30 per cent for PSA, while also drastically reducing wear and tear on tools.

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Southwest Electronic Energy Selects Aras to Streamline and Automate New Product Development Process

7 April 2015

CIMdata PLM Industry Summary

Aras® today announced that Southwest Electronic Energy (SWE), a leader in the design and manufacturing of lithium and lithium-ion custom battery packs, has selected the Aras PLM platform to streamline and automate strategic enterprise-wide processes surrounding product development and commercialization, from initial design collaboration through to engineering change management and problem reporting.

After evaluating several enterprise PLM suites, SWE selected Aras PLM for the platform's combined flexibility and out-of-the-box solutions. The company will implement these solutions with the help of Aras Partner EBD Advisors. "Our company's competitive advantage rests in our ability to deliver the highest quality products with the fastest turnaround times," said Doug Draut, IT Engineer at SWE. "Aras Innovator will help us improve quality and speed by providing a single collaboration platform to streamline all our core product-related processes."

"SWE continues to build upon 50 years of success as a pioneer in innovative energy solutions," said Peter Schroer, President of Aras. "We are pleased that the Aras Innovator Suite can provide a uniquely flexible and scalable PLM backbone to help them innovate efficiently and effectively."

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TVH GROUP NV Selects Aras and Minerva for Enterprise PLM

8 April 2015

Aras® today announced that TVH Group nv, a leading supplier of quality replacement parts and accessories for the material handling and industrial equipment industry, has selected the Aras solution suite for enterprise PLM. TVH will leverage Aras to optimize collaborative product development across the enterprise and supply chain, including advanced product data management, change management, integrated CAD file management and design partner collaboration.

Working with Aras gold certified partner Minerva, TVH will implement Aras Innovator® with the CATIA V5 Connector for Aras to ensure timely and efficient management of massive volumes of CATIA and other files, associated product data and collaborative design processes.

TVH established its market leadership by continuously innovating and broadening its spare parts design and documentation capabilities. A strong commitment to excellence in these areas enables TVH to differentiate from other market players by providing a true one-stop shop experience for customers in 170 countries. Today, TVH maintains 450,000 stocking numbers and more than 11,000,000 part numbers for over 90 brands of material handling vehicles. For more information please visit <http://www.tvh.com>

"TVH continues to demonstrate their leadership in operational excellence," said Peter Schroer, President of Aras. "We are delighted they have chosen the Aras Innovator Suite and Minerva as their partner of choice to pursue continuous engineering and design chain improvements in a highly scalable and flexible environment."

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Product News

ASCENT- Center for Technical Knowledge Releases First Autodesk Official Training Guides for Autodesk 2016 Software

9 April 2015

[Rand Worldwide](#) today announced that its courseware division, [ASCENT – Center for Technical Knowledge](#), is releasing the first Autodesk Official Training Guides (AOTG) for Autodesk 2016 software. The newly released titles are available through ASCENT's online store at [ASCENTeStore.com](#) in both print and eBook formats.

"ASCENT will release close to 60 AOTG titles in multiple formats for Autodesk 2016 software and suites over the next six to eight months to help support learners and instructors," says Paul Burden, director of product development for ASCENT. "Our learning content for Autodesk software has been a stable and reliable resource for individuals, organizations, schools, Autodesk Authorized Training Centers, and Authorized Academic Partners for more than 20 years as they adopt new software and upgrade to new versions. Our team continues to meet the challenge delivering timely content enabling users to leverage the latest technology."

As the sole provider of Autodesk Official Training Guides, ASCENT's expert team of courseware developers works closely with Autodesk to produce high quality training materials that coincide with software release dates. This initial release of 2016 Autodesk Official Training Guides ensures that architectural, civil, manufacturing and mechanical engineers and designers can immediately benefit from the latest advancements in the industry's leading 3D design software, whether they use ASCENT's AOTG curriculum for self-paced learning, instructor-led training, or as an on-the-job reference.

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ASCON Group Launches New 3D Software for AEC

6 April 2015

ASCON Group is pleased to announce its newest 3D CAD package, the new Renga Architecture for AEC design. Here is a single tool that combines the convenience of object-based CAD, the creative freedom of 3D direct modeling, and the simplicity of 2D editing.

Renga Architecture is the first in a new line of AEC software from ASCON Group. It is designed to be a technological platform for solving a variety of design and construction tasks. Over time, the Renga family will expand to handle building construction and utilities design— systems which are already under development.

3D Modeling and 2D Drafting

The new Renga Architecture system is the result of a multi-year effort by ASCON Group, in which programmers worked with many design organizations to learn their needs. The primary objective guiding the development of the new software was that users not be held hostage to external reference materials or missing element configurations; users should be able to create new building designs without

facing obstacles.

The goal is realized. Renga Architecture lets designers and architects work in an unrestricted 3D workspace, creating architectural projects quickly with the help of typical 3D design elements, such as slabs, walls, columns, windows, and roofs. The software gives users the opportunity to design buildings with complex architectural forms and solve non-standard issues thanks to its built-in style editor and model explorer.

Renga Architecture is designed to create not only 3D models, but also produce data models of buildings by specifying information about cuts, facades, levels, and so on.

The full-scale (1:1) 2D editor operates in drawing mode. It lets users add required graphics to drawing layouts manually, such as lines and arcs, hatches and fills, elevation marks and sections, and dimensions. Drafting views are associated with the 3D model, and so any change made to the model is reflected immediately in the geometry of the layouts.

User Interface and Visualization

A unique aspect of this revolutionary product is its user-sensitive interface, which is the result of deep research into user interactions by ASCON Group. It offers a muted color gamut, an efficient model placement in 3D space, a convenient navigation system, and a just-right number of commands grouped by function, whose options won't overwhelm users. All this ensures that users feel comfortable designing architectural elements over the course of typical eight- to twelve-hour workdays.

Renga Architecture offers real-time visualization through the application of HBAO+ technology from NVIDIA Corp. Horizon-Based Ambient Occlusion makes model visualization all the more realistic thanks to correct shading and subtle shadow effects applied to every building element— even while they are moved and edited. HBAO+ lights up 3D scenes to look perfect all the time. For the most effective graphics, the program's developers recommend running Renga Architecture with NVIDIA graphics cards.

File Formats and Data Exchange

The system imports or exports several industry-standard file formats. This helps make the architect's concepts clear to other designers and engineers. Even more important is the program's ability to use 3D and 2D data generated by the project in all stages of collaborative work.

To maximize Renga Architecture's integration into existing design environments, the program works with the following universal formats:

- .ifc for BIM data exchange
- .dxf for CAD drawing exchange
- .obj and .3ds for output to advanced rendering and animation software
- .csv for output to data processing
- .stl for 3D printer output

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BETA CAE Systems S.A. Announces the Release of the SPDRM v1.1.1

8 April 2015

CIMdata PLM Industry Summary

BETA CAE Systems S.A. announces the release of SPDRM v1.1.1.

This version delivers several most anticipated enhancements, along with a number of resolved known issues, to the users of the most advanced Simulation Process Data and Resources Management tool.

The most noticeable software enhancements and code corrections are listed below.

Enhancements

Process Management

From now on, the modification and execution privileges defined during the design phase and saved in the node definitions are respected.

From now on, the M instances of an MxN node will be automatically assigned (i.e. set execution privilege) to the N users of the selected Execution Roles.

The default contents of the Process Instance List have changed. It is also now possible to select and delete a multi-selection of nodes.

It is now possible to search also among draft node definitions.

A check was added for possible node name conflicts, to avoid the creation of nodes with identical names within the same sub-process.

Data Management

It is now possible to lock or unlock simulation models, to avoid their deletion or modification.

New context menu options have been added to linked directories of DM items.

The image of the selected component in the history graph is now displayed under the list of its properties and attributes.

It is now possible to search items based on their creation date, by using the variable "today".

Resources Management

From now on, the values of the default launch options of applications, used by mimetypes and application nodes, are automatically updated when the registered application settings are updated.

Scripting

The script function `dm.selectDataFromDataTree` has been added to enable the selection of one or more files, folders and/or DM items from the data tree window.

A new argument was added in the script function `dm.queryDMItems` to enable the definition of the DM Item types for which the specified query will be applied.

The ability to define whether the associated TMP folders will be deleted or not upon the deletion of a node was added as an additional argument in the script function `process.instantiateNode`.

The script function `emailer.sendMail` has been modified to get multiple recipients and add attached files from the file system.

GUI

The pre-run, main and post-run script areas of application nodes have been rearranged using a tabbed layout, to provide more space for script editing.

Miscellaneous

It is now possible to send emails through the SPDRM Client (Tools > Send Email) by using an outgoing authenticated SMTP mail server.

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Known Issues Resolved

Process Management

Deleting a starting option of an application node from the registered applications console was neglected when the application was called.

User could modify the properties/settings of a node, although his current role did not belong to the list of modification roles for this node.

The options "Auto Start" and "Auto Complete" were automatically activated for MxN instances, even for nodes that had been designed to have these options de-activated.

The information about the version history of nodes was lost when saving them in Drafts.

A user could replace a node with another version of it, through the "Check Available Versions" option, even without a delete permission on it.

The option "Check Available Versions" was not available to users whose current role had not been assigned "Design" privilege.

Data Management

An error could occur during changing the status of a component from "WIP" to "Error".

When importing a new linked directory under a DM item the previous one was not deleted.

It was possible to import files and/or subfolders on DM folders, no matter if the user's current role had "Modify" privilege on them. Moreover, in some cases a user was not possible to add subfolders on DM folders, although the folders were owned by him/her.

Resources Management

An error could occur when selecting a user, while the User Management window was minimized.

Scripting

In some cases, it was not possible to load Python functions help from their source.

The script function `dm.downloadFolderById` returned an empty list when the requested folder was empty.

The script function `dm.selectComponentsFromQueryResults` could return wrong error code.

The script function `process.getValuesOfNode` returned the default values of output slots and variables, instead of the run-time values. Moreover, the type of the returned variable was always of type string, instead of the same type as the one of the source variable.

ANSA Connect

The status of a component could be switched from "OK" to "WIP" through ANSA script.

Some rules needed to be removed from the Component section of the data model configuration file since they prevent version spin-up from ANSA v15.1.0 and later.

GUI

An error could occur when the user changed the Windows theme, while the SPDRM Client was running.

Miscellaneous

The operation of the switching user or role failed to be aborted, when the "Cancel" button was pressed in the "Unsaved Changes" window, in case there was unsaved work in the "Process Designer".

An error could occur when sending email or setting up an SPDRM update notification, if the required

server e-mail configuration had not been set properly.

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BIMobject® unveil Private Clouds 2.0, Premium Capabilities for Manufacturers

1 April 2015

BIMobject® unveil the release of Private Cloud 2.0. This new version has features which gives extended capabilities for manufacturers that use digital product catalogues based on building information modelling – BIM. The new Private Clouds 2.0 are very powerful, easy to update, analyse and maintain, they have responsive web and language settings, are customisable and easy to integrate. They make life easier for any web developer or marketing department which no longer need to develop their own catalogue system for BIM objects and other digital content.

The Private Clouds 2.0 serve as a premium online product catalogue for manufacturers in need of a modern and effective way to market their products. In parallel, it is a smarter way for manufacturers to manage their digital content in a controlled way as this service enables a future proof digital content management strategy.

Private Clouds 2.0 are a part of the BIMobject Cloud platform that already hosts more than 25,000 files with almost 2 million downloads that are made up by more than 85,000 BIM professionals around the world. Private Clouds 2.0 make it easier for manufacturers to keep up with the ongoing and major technological transformation in the construction and interiors industry. It is expected this improved Cloud App will attract even more companies to start collaborating with BIMobject.

“The time is over when every marketing and IT department need to invest to build their own solutions. With our intense development we offer the fastest, cheapest and smartest way to have a digital content catalogue integrated on their own website”, says Johan Dyrssen, Web Developer, BIMobject.

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Datakit Releases the Version 2015.2 of its CAD Data Exchange Tools

7 April 2015

Datakit releases the version 2015.2 of its CAD conversion interfaces.

- This version offers three main new features:
- The Solid Edge 2D (.dft) format is now available. [It can be converted to PDF](#) or [DXF](#).
- The [CATIA V5 reader](#) supports the latest version CATIA V5 R25 (V5-6R2015).
- The [NX reader](#) supports the latest version NX 10.

All these improvements benefit to components provided by Datakit to software vendors ([CrossCad/Ware](#)), enabling them to support many CAD formats in their own software.

It applies also to the plug-ins provided by Datakit ([CrossCad/Plg](#)), which add import or export

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functionalities to CAD software as Rhino, SolidWorks, ThinkDesign and Open CASCADE in formats non-natively supported by these software.

Finally, the stand-alone converter [CrossManager](#) is also benefiting of these improvements. It allows users to convert their CAD files very easily and quickly in dozens of different CAD files without the need for any third-party software license.

Datakit will visit [Industrie Lyon 2015](#), From 7 to 10 April, do not hesitate to make an appointment with Datakit at the show to find out more about the technology developed by the company, and what it can do for you.

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Delcam's New PowerMILL Robot Combines Manual and CNC Programming

8 April 2015

Delcam has launched the 2015 release of its PowerMILL Robot software for the programming of robots for multi-axis machining operations. The new release enables manual and CNC programming to be combined in a single program so providing the maximum programming flexibility. Other enhancements include improved collision checking, automatic avoidance of wrist singularities and the ability to generate robot programs from tape files produced in other CAM software.

PowerMILL Robot also benefits from the many enhancements made in recent releases of PowerMILL, in particular the Vortex strategy for high-efficiency area clearance. In addition, the range of robots supported by the system has been increased so that it now includes KUKA, ABB, Fanuc, Yaskawa Motoman, Stäubli, Hyundai, Comau, Kawasaki Robot, Nachi and Universal Robots equipment, in all cases eliminating any need for third-party translation software.

The new functionality in the 2015 release allows users to duplicate in the virtual environment teach-and-learn programming of the robot for linking moves. The model robot on the computer can be 'jogged' between positions where machining is to take place, in a similar way to the movement of the arm in the real environment. The programmed linking moves can then be integrated with the cutting moves to give the complete sequence of operations.

This approach will be necessary in any cases where there are additional objects in the real world that are not included in the CAD model of the part to be machined, such as the clamps or fixture being used to hold the item. In other cases, the user might prefer to move up and over the part, rather than moving around it, even if that is shorter.

A singularity in robot operation occurs when collinear alignment of two or more axes results in unpredictable robot motion. Singularities must, therefore, be eliminated to maintain smooth, predictable machining. The new release avoids automatically wrist singularities, the most common example of this type of problem.

The improved collision checking in the 2015 release allows the complete NC program to be simulated in one operation so saving considerable time when compared to the previous method of checking each toolpath individually.

Finally, the ability has been added to import existing tape files from other CAM systems. Once imported, the toolpaths can be simulated and post-processed in PowerMILL Robot in the same way as toolpaths from PowerMILL.

PowerMILL Robot makes it as easy to program a robot for machining as it is to program a five-axis machine tool. As a fully-associated application inside PowerMILL, users have access to all the multi-axis machining strategies within PowerMILL and can use all the system's project management options to manage, store and retrieve data.

With PowerMILL Robot, robots can be programmed for tool-to-part applications, making them ideal for machining large parts, such as composite panels that need to be trimmed, or for part-to-tool applications, such as grinding or finishing. The working area can be extended with linear tracks and rotary tables for even greater flexibility over the size and types of parts that can be manufactured.

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Elysium to Release CATIA V5-JT DirectTranslator Ver.1.3 - More Powerful Capabilities Enabling Daimler Suppliers to Meet Daimler's JT Requirements

7 April 2015

Elysium Co. Ltd., announces the release of its latest version of CATIA V5-JT DirectTranslator (Ver. 1.3). This version-up includes various new capabilities useful for the data exchange in JT format. This release addresses the specific Daimler requirements for the Daimler Master Data requirement, material properties, attribute support and geometry management. The major intent of this release is to improve upon the throughput so that Daimler Suppliers can implement Elysium tools to support a work-flow within their data release process.

Elysium Approved as a Certified JT Bi-directional Translation Provider for Daimler Supply Chain
Elysium's CATIA V5-JT DirectTranslator is certified as compliant with Daimler quality standards, and is approved for the Daimler Supply Chain. This translator, developed by Elysium leveraging over 30 years of technological history and partnerships with both Dassault Systèmes and Siemens PLM Software, is ranked number 1 in the industry benchmark.

The CATIA V5-JT DirectTranslator provides accurate translations to provide exact geometry, further, it satisfies the Daimler use case requirements for digital mock-up, visualization, manufacturing and process planning work-flows. Version 1.3 focuses on the automation and the ability to edit entities such as file names, material properties, attributes and metadata, dramatically reducing the manual work needed to post-process data in order to meet the Daimler quality requirements for JT data acceptance. This translator also translates JT data to CATIA V5 with automatic mapping of attributes back to CATIA V5 to assure instant data re-use in downstream processes.

Enhancements of Version 1.3

The following list summarizes the enhancement to the CATIA V5-JT DirectTranslator:

- Masterdata support
- PLM XML support for the management of product structure
- CATIA V5 mass properties support
- Material ID (QEVNumber) support
- Customizable attribute mapping

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- JT configuration settings with LOD (Level of Detail) support
- JT Moniker support
- Filename editability

"Elysium is constantly supporting our customers and partners alike via these follow-up releases to assure that Elysium delivers products that address the goal for an automated CAD to CAD conversion tool with maximum efficiency and minimum human interaction," said Ken Tashiro, VP/COO, Elysium. "Version 1.3 focuses on matching Daimler's management of product structure, product information, and geometry representation in addition to usability such as editable mapping tables." "All these enhancements allow our end-users to increase their productivity with respect to collaboration with Daimler."

Ver.1.3 supports CATIA V5 R24, which is a widely used version in the European automotive industry.

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Exa Launches New Simulation Product to Optimize Vehicle Passenger Comfort

2 April 2015

Exa® Corporation announces its newest release, PowerFLOW 5.1, offering up to a 300% speed up for complex transient cabin comfort simulations — allowing vehicle manufacturers an accurate, robust, and practical method of studying exceedingly complex thermal engineering problems.

According to J.D. Power and Associates' initial quality studies, it is crucial for automobile manufacturers to design and produce reliable climate control systems, as they are paramount to the interior comfort of today's vehicle owners. "Consumers demand to be comfortable in their vehicles," said Ales Alajbegovic, Exa's Vice President, Ground Transportation Applications. "Beyond ensuring customer satisfaction, optimizing and engineering passenger vehicle cabins and HVAC systems through simulation can save fuel and reduce emissions."

The current thermal engineering design process presents many challenges for the engineering team. They often must wait for full cabin designs and prototypes to be available for evaluation. Additionally, engineers have had to rely on mannequins and thermal measurement devices that assess temperatures, but do not provide useful feedback as to the source of the thermal inefficiency. Exa's simulations are performed early in the design process and combine accurate feedback on thermal performance with actionable insights on the source of the problem to enable engineering teams to create a better product without compromise.

As described in a paper presented by Honda R&D Co. Ltd., ThermoAnalytics and Exa, thermal engineering of a vehicle's cabin is incredibly complex and requires long simulations to properly predict the thermal behavior of hours of physical time. "Through Exa's PowerFLOW 5.1 release, engineers can expect up to a three hundred percent solver speed-up for their cabin comfort simulations — a remarkable time savings," said Dr. Jaehoon Han, Director for Thermal Management Applications. "Achieving faster cabin comfort simulations through this state-of-the-art technology allows manufacturers to realistically include thermal evaluations in the early stages of product development. When combined with our equally powerful solutions for acoustic noise evaluation, engineers now have a complete solution for cabin comfort. With Exa they can design comfortable, quieter cabins through simulation and avoid expensive, late-stage design changes."

PowerFLOW 5.1 is a comprehensive new release that includes many new applications features to offer

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engineers consistently accurate simulations with faster turnaround times. Updates to acoustics absorption material, battery modeling, rotating geometry simulation as well as a simplified passenger comfort case setup are all part of the PowerFLOW 5.1 release.

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Gerber Technology's AccuMark 10 Increases Productivity, Collaboration in Pattern Design

8 April 2015

Gerber Technology announces the availability of the [AccuMark® 10](#) intelligent pattern design, grading, planning and marker making software solution. In addition to digital printing capabilities and other features that increase productivity throughout the system, AccuMark 10 will also offer a fully integrated 3D solution for garment development and pattern making as an optional module (available later this spring).

"AccuMark 10 truly revolutionizes the design process in apparel and fashion, by improving communication and productivity all along the line," said Mary McFadden with Gerber Technology. "This next-generation solution helps manufacturers get their products to market faster, smarter and better."

Gerber was one of the first to introduce CAD Pattern Making Software for the apparel industry. Today, AccuMark CAD systems are used by more than 15,000 customers, including many of the world's leading fashion brands. Gerber has a history of bringing forward innovations and technologies that optimize customers' design and manufacturing processes. Gerber has launched technologies that have become the benchmarks for CAD pattern making, grading planning and marker making software, and automated spreading and cutting machines.

AccuMark 10 automates the entire production process while providing significant advances in quality control, communication and efficiency. The system helps manufacturers reduce raw material and labor costs, and generate fewer samples and prototypes. Users will find that AccuMark 10 is easy to use, improves collaboration and helps to automate every day tasks in pattern design, grading, marker making and production planning.

AccuMark 10 elevates pattern design and streamlines the production process at every level. Features of this system help users in a variety of areas:

- **Pattern Design:** Artwork images that represent fabric textures, appliques, logos, trims and other visual details can now be added to patterns in PDS. This enables the ability to provide partners with visual instructions for pattern placement. Pleats can now be edited, deleted and folded, and the patterns can be modified while the pleats are folded, providing major productivity improvements.
- **Grading:** Allowing users to create Points of Measurement between pattern and chart, provide pattern details to production. With automatic grading updates, intelligent calculations and pre-set size tables, users are able to make pattern changes on the fly and create made-to-measure garments from basic sizes.
- **Marker Making:** AccuMark 10 simplifies the marker ordering process while offering the capability of such advanced technologies as generating digital printing files directly.
- **Production Planning:** Work orders can be imported from ERP systems and automatically

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planned, nested, plotted, and have reports and cut data generated without human interaction. This ability greatly increases productivity and reduces human error.

"Digital printing will bring dramatic increases to the creativity and production speed of the industry, and we're happy to be able to offer that capability within AccuMark 10," said McFadden. "Not only will it offer a more creative range of design options, digital printing will also allow for development of short run "fast fashion" lines – all with lower production costs. When combined with our optional 3D module, users can generate virtual samples and then bring them to life with digital printing. AccuMark 10 is truly next-generation technology, and will help apparel manufacturers unleash their creative vision in design and production."

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IMAGINiT Technologies and 4D Technologies Partner to Create the Ultimate eLearning Experience

9 April 2015

[Rand Worldwide](#) announced that its [IMAGINiT Technologies](#) division has partnered with 4D Technologies, developers of industry leading CADLearning video learning content, to create an unrivalled multi-modal [eLearning experience](#). Now available through IMAGINiT's [ProductivityNOW portal](#), the popular self-paced, Autodesk focused eLearning curriculum combines video instruction to create a rich learning experience.

“As a time-starved professional, sacrificing billable time to leave the office to travel and attend in-classroom training can be challenging,” says Kevin Kuker, vice president of services operations for IMAGINiT Technologies. “By integrating CADLearning video into ProductivityNOW’s curriculum, we’re able to offer users a self-paced learning experience that incorporates all the learning modalities. We believe that this is the first step in evolving our learning solutions to better suit the unique learning styles and needs of our customers.”

Visually demonstrating new skills and behaviors is an important part of multi-modal learning. IMAGINiT’s video enhanced eLearning curriculum provides access to more than 1,000 video demonstrations covering products such as AutoCAD, Autodesk Inventor, AutoCAD Civil 3D and Autodesk Revit. In addition to videos, informative audio and screen shots help to demonstrate the software in action while hands-on exercises and the ability to revisit topics reinforce the material learned. Whether auditory, visual or kinesthetic learners, every user can absorb the information in the way that best suits their learning style.

“With this new ProductivityNOW offering, we’ve combined industry-leading video tutorials with eLearning content from Autodesk Official Training Guides,” says Matt Murphy, director of content management and development for CADLearning. “This pairing allows self-paced learners to acquire knowledge and skills from two trusted resources to maximize today’s limited training time while increasing productivity where and when customers need it.”

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Intergraph® Releases PV Elite® 2015

9 April 2015

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Intergraph® has released PV Elite® 2015, the complete solution for vessel and heat exchanger design, analysis and evaluation that includes a new 3D PDF modeler, plus Intergraph CodeCalc™ improvements and pressure vessel code and calculation updates. The latest release of PV Elite also adds configuration options, improved analysis capabilities and many other productivity enhancements.

Favored by owner operators and engineering firms worldwide, PV Elite is compliant with American Society of Mechanical Engineers (ASME) Section VIII Divisions 1 and 2, PD 5500, EN 13445 and API 579, providing an inclusive set of international code rules and region-specific content combined with robust data collection tools. This allows engineers and designers to create vessel and heat exchanger designs quickly and accurately for projects of varying scopes and sites.

PV Elite has important equations built in to help users meet inspection requirements and graphical inputs make it easy to create, update and manipulate analysis models. It also includes bi-directional links to CADWorx® Plant Professional and PV Fabricator® for information-sharing throughout the project.

Patrick Holcomb, Intergraph Process, Power & Marine's executive vice president of global business development and marketing, said, "Intergraph continues to add new functionality to meet the requests of our customers. PV Elite users are designing equipment for the most extreme uses and are able to do so more quickly, accurately and profitably by using Intergraph solutions."

Rick Allen, president of Intergraph CADWorx & Analysis Solutions, said, "Users have a lot to look forward to with this latest release of PV Elite, especially the addition of a 3D PDF modeler, which allows for easily-shareable and dynamic visual representation of vessels, as well as enhanced output presentation. This visibility allows others to easily see the results and make comments and changes earlier, which enables higher-quality deliverables."

Intergraph CADWorx & Analysis Solutions products allow design and engineering to share relevant information seamlessly, thereby maintaining accuracy and improving efficiency. These include CADWorx Plant Design Suite, for AutoCAD®-based intelligent plant design modeling, process schematics and automatic production of plant design deliverables; CADWorx DraftPro®, a free solution for intelligent 2D design and layout; CAESAR II®, the world's most widely used pipe stress analysis software; PV Elite®, for vessel and exchanger design and analysis; TANK™, for the design and analysis of oil storage tanks; GT STRUDL®, one of the most trusted, adaptable and fully-integrated structural analysis solutions in the world; and Visual Vessel Design, a comprehensive pressure vessel, shell and tube exchanger, and boiler design and analysis software with a strong emphasis on European codes and standards. For information on Intergraph CAS, visit www.coade.com.

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MapleSim Models Now Available to LABCAR Customers for Faster Hardware-in-the-Loop Testing 9 April 2015

ETAS K.K. and Maplesoft today announced the successful connection between LABCAR, the hardware-in-the-loop (HIL) testing system from ETAS, and MapleSim, the advanced system level modeling tool from Maplesoft. [Initial projects have shown that using MapleSim models](#) resulted in more than 15 times faster implementation compared to other similar products.

LABCAR is an HIL testing system for automotive electronic control units (ECUs). With its open and

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modular system architecture for simulation models, software, hardware, and test automation, and its time-synchronous ECU access, LABCAR is easily scalable and well suited for integration with third-party hardware, software, or simulation models. MapleSim offers a modern approach to physical modeling and simulation, dramatically reducing model development and analysis time while producing fast, high-fidelity simulations.

[MapleSim](#) includes the ability to export models to a variety of formats, including the Functional Mockup Interface (FMI). FMI is an industry standard for model definition, designed to facilitate the sharing of models across different tool sets for co-simulation and model exchange. Since LABCAR supports the FMI standard, engineers can incorporate their MapleSim models directly into their LABCAR testing environment. Engineers also have the ability to export MapleSim models as Simulink® S-functions, and incorporate them in the LABCAR testing environment. In these ways, LABCAR users can take advantage of the extremely fast, high fidelity simulation code produced by MapleSim when testing their electronic control units.

The seamless integration of MapleSim models into the LABCAR HIL environment significantly increases productivity for LABCAR customers. Typically, models developed early in the design phase must be modified, by hand, before they can be used in the HIL test and validation phase, in order to make them fast enough for use in a real time testing environment. However, MapleSim's unique technology produces extremely fast simulation code, without sacrificing model fidelity. As a result, engineers can use the same models in both phases of the project, saving them time and giving them highly accurate simulation results.

“Everyone benefits when companies like ETAS and Maplesoft support the FMI standard for model exchange and co-simulation,” says Dr. Laurent Bernardin, Executive Vice-President and Chief Scientist at Maplesoft. “The seamless integration of MapleSim models in LABCAR makes it easy for engineers to leverage the strengths of both tools, without having to spend time trying to manually make the tools connect.”

“Our goal is to give engineers a flexible, effective testing environment, and MapleSim with FMI connectivity helps us do that,” says Dr. Tobias Kreuzinger, Senior Manager for Test & Validation Solutions at ETAS. “The combination of the high performance LABCAR environment with extremely fast, high-fidelity MapleSim models means engineers can perform even better testing of their control and diagnostic functions in less time than ever before.”

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Onshape uses Datakit for 3D CAD data

9 April 2015

Datakit announces that the recent beta release of [Onshape's revolutionary browser based CAD environment](#) leverages Datakit technology for 3D CAD model interoperability. Onshape has licensed a broad range of import and export formats from Datakit to support the need to get 3D data into and out of Onshape seamlessly.

“Finding a 3D translation partner that could provide a solid technology base and work with us on an innovative cloud based distribution model was key.” says John McEleney, CEO of Onshape. “Working

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with Datakit through their business partner intrinSIM was a straightforward process to meet our technology and business needs.”

“We are excited that Onshape has chosen Datakit as their interoperability solution.” says Olivier Rigollet, COO of Datakit, “Their innovative approach to CAD offers an exciting path forward for designers and we are proud to play a role in this breakthrough.”

Onshape recently announced the beta release of their much awaited browser based CAD and mobile environment. To enable interoperability between their new Cloud offering and traditional CAD systems the Onshape environment leverages [CrossCad/Ware](#) from Datakit to provide effective direct translation between these two worlds. These translation capabilities from Datakit are embedded as an integrated part of the Onshape cloud platform.

“Effective translation of 3D data into and out of Onshape allows us to work efficiently with existing CAD users as they transition to Onshape,” says Dave Corcoran, VP of research and development at Onshape. “Datakit technology and technical support has enabled us to provide robust translation of 3D data as an integrated part of the Onshape experience.”

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solidThinking Evolve® 2015 Offers the Ultimate Hybrid Modeling and Rendering Experience for Industrial Designers

8 April 2015

Today [solidThinking](#), Inc., introduced solidThinking Evolve® 2015. The new release is packed with features that make 3D concept creation and modeling faster, easier, and more realistic than ever before. Featuring cutting-edge rendering technology, an enhanced user interface, and a new PolyNURBS toolset, users may now convert polymesh objects into NURBS curves and surfaces with a single click.

"Evolve 2015 gave us the opportunity to focus on what matters most to our user base," says Darren Chilton, Program Manager for solidThinking Evolve. "This release gives users more control and flexibility for efficiently creating visually stunning models. Adding polygonal modeling and state-of-the-art rendering to an already robust set of tools truly makes Evolve 2015 the Swiss army knife of modeling and rendering software."

"The updates to the solidThinking Evolve 2015 rendering engine are awesome," says Tom Hicks, Senior Industrial Designer for Lear Corporation and longtime solidThinking user. "New visualization features streamline the rendering process while adding more textures, color and material choices. Also, upgrades to the user interface add improved functionality, making it easier to communicate concepts. Evolve 2015 captures the essence of 'art to part'."

Key enhancements for solidThinking Evolve 2015 include:

- **New PolyNURBS toolset with *Nurbify*** – Convert a polygonal model to an organic NURBS surface with a single click using the new *Nurbify* tool.
- **Photorealistic rendering** – A completely redesigned rendering tool creates life-like images with an enhanced user interface.
- **Improved surface modeling** – Enhancements to the surface modeling toolset create a seamless experience with greater control over modeling outcomes.

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- **Better user interface** – An updated user interface focuses on creating more efficient workflows.
- **Greater compatibility** -- Now compatible with 64-bit Mac OS X.

solidThinking Evolve allows industrial designers to develop forms faster, using either a Windows PC or Mac. The software captures an initial sketch, allowing exploration of styling alternatives and the visualization of products with high-quality renderings generated in real time. It combines the modeling freedom of organic surfaces and the control of parametric solids with a unique ConstructionTree™ history feature. Evolve releases designers from the constraints of engineering-oriented computer-aided design tools, while allowing the export of digital models required by a collaborative product development process.

An introductory [webinar](#) for solidThinking Evolve 2015 is planned for April 14, 2015, at 9:00 am Eastern Daylight Time. Visit solidthinking.com/evolve for images, videos, and more product information.

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TSMC Certifies ANSYS Power Integrity and Electromigration Solutions for 10nm FinFET Early Design Start

6 April 2015

[ANSYS](#), Inc. announced today that its ANSYS® [RedHawk™](#) and ANSYS [Totem™](#) products are certified by TSMC for the most current version of 10-nanometer (nm) FinFET Design Rule Manual (DRM) and SPICE models, addressing the power and performance requirements for mobile, computing and networking applications. TSMC has certified these solutions for static and dynamic voltage drop analysis and advanced signal and power electromigration (EM) verification to meet the 10-nanometer requirements.

Complex device structure and high drive currents in FinFET devices make power integrity and EM key design requirements. With innovative algorithms and analysis engines, ANSYS solutions deliver needed accuracy while reducing turnaround time to meet the increased computational requirements caused by modern products' growing design complexity. Advanced technology support in RedHawk and Totem, including EM rule compliance and color-aware resistance extraction, help deliver greater reliability and manufacturability.

"The certification of RedHawk and Totem for 10nm FinFET technology ensures our products' ability to deliver the accuracy required for power and advanced EM sign-off," said Fares Mubarak, vice president and general manager of ANSYS. "By continuously collaborating with TSMC, we are able to provide optimized tools and methodologies for the industry's most advanced process nodes and the customers using them in their emerging design technologies."

"TSMC and ANSYS collaborate closely on 10nm FinFET EM/IR tool certification for early adopters to ensure more robust and reliable system-on-chips for next-generation electronic products," said Suk Lee, TSMC senior director, Design Infrastructure Marketing Division.

The ANSYS portfolio of product offerings will be showcased at the upcoming TSMC Technology Symposium in San Jose, California; Austin, Texas and Boston, as well as at [Design Automation Conference](#) (DAC) in exhibit booth #1232.

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TSMC Certifies Synopsys Design Tools for 16-nm FinFET Plus Production and for 10-nm Early Design Starts

6 April 2015

Synopsys, Inc. today announced that TSMC has concluded 16-nanometer FinFET Plus (16FF+) v1.0 certification and reached the first milestone of 10-nanometer (nm) certification based on the most current DRM and SPICE model on a comprehensive list of Synopsys' custom and digital design tools. This certification enables mutual customers to deploy tools in Synopsys' Galaxy™ Design Platform for 16-nm production designs and 10-nm early engagements. The certified platform delivers technologies including routing rules, physical verification runsets, signoff-accurate extraction technology files, statistical timing analysis that correlates with SPICE, and interoperable process design kits (iPDKs) for FinFET processes. TSMC and Synopsys have collaborated to enhance new tool features based on both 16-nm and 10-nm technology requirements in Synopsys' IC Compiler™ II place and route solution with TSMC validation. This includes full-flow color enablement, support for connected poly on gate oxide and diffusion edge (CPODE) technology, layer optimization, low Vdd timing closure and support for signal electro-migration. The two companies are also working together to complete IC Compiler II certification for 16nm by the end of April and 10nm in June 2015.

"The combination of tool certification and our longstanding collaboration with Synopsys is enabling customers' 16FF+ production ramp-up and early engagements at 10-nanometer," said Suk Lee, TSMC Senior Director, Design Infrastructure Marketing Division. "With a full suite of TSMC-certified digital, signoff, and custom implementation solutions from Synopsys, our mutual customers will achieve improved performance and lower power while attaining their time-to-market goals."

"Our deep collaboration with TSMC on 16-nanometer and 10-nanometer FinFET processes allows our mutual customers to use silicon-proven FinFET tools to achieve predictable design closure with faster turnaround time," said Bijan Kiani, vice president of product marketing in Synopsys' Design Group. "With the latest certification for these two FinFET processes, designers can take advantage of this game-changing implementation technology for their next-generation chip designs."

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VCollab Announces Solutions to Convert CAE Data to JT Format for Easier Integration of CAE Data with CAD, SDM & PLM

2 April 2015

VCollab announced the solution to convert CAE model & results data from a variety of CAE solutions like NX™ software, ANSYS, MSC NASTRAN, ABAQUS, LS DYNA, FLUENT, STAR-CCM+, CFX, FE SAFE, nCODE and others into the JT™ data format. Developed by Siemens Product Lifecycle Management (PLM) Software, JT is the leading file format for lightweight 3D collaboration and visualization and is an ISO standard. VCollab exports not only the 3D models, deformed shapes and simulation results, but also exports the CAE BOM, simulation result contour and associated legend into JT for better understanding of the simulation results. VCollab also exports Meta Data into a separate XML files for an easier integration with SDM/PLM systems to better manage simulation data.

Creating 3D JT models of the simulation models and results is now available through an optional plug-in to the [VCollab Professional viewer](#) allowing any result instance selected in VCollab Professional to be exported as a JT file. The result instance for export to JT can be interactively defined or by using batch tools. The combination of VCollab’s extensive CAE import and processing capabilities with these new export utilities makes CAE data available to a wide audience in a format that is consistent with their standard business practices.

The ability to convert simulation results into the widely used and understood JT format makes it easier to share CAE results across the entire organization leveraging JT for visualization.

VCollab used the JT Open Toolkit from Siemens PLM Software to accelerate the development of this solution. The JT Open Toolkit is offered by Siemens PLM Software as part of its commitment to open technologies and business practices.

“Using the JT file format to improve open collaboration for analysis results has always been an important goal of the JT Open community,” said Michael Zink, Openness Evangelist, Siemens PLM Software. “We are thus very excited to see VCollab offer such a comprehensive solution, based on the JT data format, for the consumers of analysis data. This comes at a great time as the adoption of JT continues to accelerate across a broader range of business processes.”

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The VCollab Suite is already known for its unique capabilities to improve the productivity of CAE analysts and also to improve the collaboration between simulation experts and other engineers involved in the product development process, making access to product performance data more available whenever needed. VCollab lightweight CAE result models and easy-to-use smart CAE viewers enable all people involved in product development processes to consider design performance for design decisions. The JT format now also allows to better integrate simulation data with SDM/PLM and support CAE results going back to CAD.

“Simulation has become a strategic tool in many organizations,” said Prasad Mandava, CEO of VCollab. “With the option to create JT models in addition to the CAX models, simulation results can now be communicated to even more people involved in product development. Simulation reports are no longer restricted to 2D images either, bringing them more in line with today’s 3D processes.”

The capability is immediately available for the latest VCollab Professional version. Existing customers interested in trying these new features are requested to contact VCollab or their local VCollab partner for a test license.

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