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Acquisitions

3D Systems Acquires Medical Modeling

2 April 2014

[3D Systems](#) announced that it acquired [Medical Modeling Inc.](#), a provider of personalized surgical treatments and patient specific medical devices, including virtual surgical planning and clinical transfer tools, using 3D modeling and printing that is rapidly changing how reconstructive surgery is done today. The company expects this acquisition to be immediately accretive to its net income.

Based in Golden, Colorado, Medical Modeling pioneered the field of 3D printing-centric personalized surgery and patient-specific medical device solutions with FDA-cleared manufacturing processes and world-class expertise, providing help on tens of thousands of patient cases for surgical planning tools, implants and other design services. 3DS also announced today that it plans to consolidate all of its healthcare activities into a single unit under the leadership of former Medical Modeling President, Andy Christensen, who was named 3DS' Vice President, Personalized Surgery and Medical Devices.

“We are thrilled to become part of 3DS,” said Andy Christensen, President, Medical Modeling. “We already use most of 3DS' leading professional design-to-manufacturing tools including its [Geomagic® Freeform®](#) modeling software and haptic tools and advanced manufacturing Stereolithography and ColorJet Printing professional-grade 3D printers,” continued Christensen. “Working with surgeons around the world on tens of thousands of patient cases gives us a unique perspective on surgical planning opportunities that, together with 3DS technology platform and resources, could accelerate our global growth and enhance overall patient outcomes.”

Medical Modeling delivers Virtual Surgical Planning (VSP®), a service-based approach to personalized surgery that combines expertise in medical imaging, surgical simulation and [additive manufacturing](#). This allows surgeons access to the most up-to-date toolbox for today's most challenging head and neck surgical procedures. VSP combines a detailed virtual surgical plan with custom-engineered instrumentation to ensure surgical success. Patented and clinically tested technology is available to aid surgeries ranging from trauma reconstruction of the facial skeleton to guidance of fibula-free grafts to more routine orthognathic surgeries.

Dr. Oren Tepper, at the Montefiore Medical Center, used Medical Modeling's VSP to perform a surgery on a small child who would normally have to wait 6 years until she was big enough for the

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operation. When she was born, Jayla Varga's jaw was no bigger than her mother's thumb, so small it pushed her tongue against her throat, preventing her from breathing or swallowing properly.

Click [here](#) to access the full story.

“The combination of our rapidly growing healthcare business with Medical Modeling’s expanding range of products and services creates the largest 3D printing based personalized surgery and patient specific medical device service capabilities available today,” said Avi Reichental, 3DS President and CEO. “By leveraging our collective expertise, technologies and channels under the capable leadership of Andy Christensen, we plan to deliver an expanding range of direct metal and plastic medical devices designed to address this rapidly expanding opportunity.”

Watch [Avi Reichental and Andy Christensen discussing personalized surgery and patient specific medical devices and the acquisition here.](#)

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Addnode Group Signed Agreement to Acquire Symetri, a UK Provider of IT Solutions for Design and Engineering Businesses

2 April 2014

An acquisition of UK based Symetri’s business from Airbus Defence and Space is in line with Addnode Group's strategy to be a market leading provider of mission-critical systems and solutions for design and engineering activities. With an annual turnover of SEK 80 M, Symetri will be a first step in an expansion to the UK market, which is expected to be one of Europe’s fastest growing economies in 2014. Completion of the transaction is subject to certain conditions.

Symetri is an Autodesk Gold partner and a supplier of software for computer-aided design and related consulting and training services. The business of Symetri is expected to generate an annual turnover of SEK 80 M and employs 23 employees. Symetri is the largest Autodesk reseller toward the UK manufacturing and Oil & Gas market.

“An acquisition of Symetri opens up UK as a new market for Cad-Q and Addnode Group. Symetri has a strong position in the UK market and we can support Symetri with a broader product portfolio and a service offering as well as our experience of global customers”, says Rolf Kjærnsli, Managing Director Cad-Q and head of Addnode Groups Business Area Design Management.

“This is in line with Addnode Group's strategy to be a leading provider of mission-critical support systems for design and engineering activities. Cad-Q and Addnode Group are one of Europe’s leading providers of design and PLM solutions. This transaction would open up a foothold for us in a new geography”, says Staffan Hanstorp, CEO and President of Addnode Group

The acquisition of Symetri is an asset deal. Addnode Group has signed an agreement to acquire the assets of Symetri, certain contracts and to take on the employees. Completion of the transaction is subject to the transfer of certain leases and customer related contracts. The purchase price will be paid in cash and amount to less than SEK 30 M.

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AspenTech Acquires Sulsim Software from Sulphur Experts

1 April 2014

[Aspen Technology, Inc.](#) announced it has acquired Sulsim[®] sulfur simulation software from Sulphur Experts. The Sulsim sulfur recovery product has been used by the world's leading energy companies for over 25 years.

Sulfur recovery is performed in almost every refinery and gas plant processing high sulfur feeds. Regulatory policies require the removal of sulfur from gas produced by these plants. With Sulsim, process engineers can model the reaction furnace, reactors, incinerator, and other related operations of sulfur recovery plants accurately. Because this is the last step in acid gas cleaning, accurate modeling is essential since any disturbance will bottleneck the process flow causing reduced throughput and heavy losses.

AspenTech's Aspen HYSYS[®] software, a leading simulation solution for the energy industry, already provides modeling capabilities for process equipment and for acid gas cleaning systems. Sulsim technology will allow AspenTech customers for the first time to optimize acid gas cleaning and sulfur recovery design and operations together. Potential benefits for refiners and gas processors from using a single engineering environment include improved efficiency, capital savings, safer operation, and minimized operating costs.

Terms of the transaction were not disclosed.

Antonio Pietri, President & CEO, AspenTech -“Building on recent new innovations in aspenONE Engineering, such as acid gas cleaning, we believe that sulfur recovery simulation technology will drive significant new value for refiners and gas processors. We will continue to make investments that extend our technology lead and enable our customers to generate additional benefits from process optimization.”

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Stratasys to Acquire Solid Concepts and Harvest Technologies

2 April 2014

Stratasys Ltd. today announced that it has entered into definitive agreements to acquire two privately-held companies, Solid Concepts Inc. and Harvest Technologies. Solid Concepts is the largest independent additive manufacturing service bureau in North America and a fast-growing partner to RedEye, Stratasys' existing digital manufacturing service business. The transactions are expected to be completed early in the upcoming third quarter, subject to customary closing conditions, and are expected to be accretive to Stratasys' Non-GAAP earnings per share within the first 12 months after closing. Upon completion of the transactions, Stratasys will combine Solid Concepts and Harvest Technologies with RedEye to establish one additive manufacturing services business unit. Joe Allison, President of Solid Concepts, will join the Stratasys management team and lead the combined parts business, supported by the strong management teams of Solid Concepts, Harvest Technologies, and RedEye.

Solid Concepts and Harvest Technologies are leading providers of additive manufacturing services. With the addition of Solid Concepts and Harvest Technologies, Stratasys is creating a leading strategic platform focused on meeting customers' additive manufacturing needs through an expanded technology

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and business offering. Solid Concepts and Harvest Technologies provide Stratasys with significant manufacturing and end-use parts production capabilities, infrastructure, capacity and process knowhow, which are expected to accelerate and enable further adoption of additive manufacturing. The combination of Solid Concepts' deep knowledge of manufacturing and vertical focus, such as medical and aerospace, and Harvest Technologies' experience in parts production, as well as materials and systems knowhow, together with RedEye, strengthens Stratasys' direct digital manufacturing and parts production expertise.

Solid Concepts, based in Valencia, California, is an industry pioneer, having provided additive manufacturing solutions to customers since its founding in 1991. Solid Concepts has developed extensive U.S.-based capacity and infrastructure with six U.S. facilities staffed by approximately 450 employees. Solid Concepts maintains a broad variety of technology platforms and processes for additive manufacturing and serves a diverse customer base across a wide range of verticals, including medical, aerospace, and industrial, among others. Solid Concepts provides an overarching platform that, with the integration of Harvest Technologies and RedEye, is expected to create a comprehensive additive manufacturing solution provider. Solid Concepts generated revenues of approximately \$65 million in 2013.

Harvest Technologies, based in Belton, Texas, is a specialty additive manufacturing service bureau established in 1995, with approximately 80 employees. Harvest Technologies has deep manufacturing process knowhow and focuses on advanced end use parts applications. Harvest Technologies was the first additive manufacturing company in North America to become AS9100/ISO 9001 certified, and continues to produce end-use parts for multiple industries.

Under the terms of the definitive agreement with Solid Concepts, Stratasys will acquire Solid Concepts for total consideration of up to \$295 million, including a payment on closing of \$172 million (or, if settled in cash, part on closing and part six months after closing), deferred payments of \$60 million and up to \$63 million in retention-related payments. Subject to certain requirements for cash payments, Stratasys retains discretion to settle any of the amounts payable under both the definitive agreement and the retention plan in either Stratasys shares, cash or any combination of the two. The value of a portion of the purchase price as well as the deferred and retention-related payments may increase or decrease in line with the market price of Stratasys shares.

Under the terms of the definitive agreement with Harvest Technologies, Stratasys will acquire Harvest Technologies for an undisclosed amount, including retention-related payments, payable in cash, shares or a combination thereof.

"We are pleased to announce these strategic transactions, which will enable us to provide customers with a comprehensive offering that addresses a broad spectrum of additive manufacturing solutions," said Stratasys CEO David Reis. "With Solid Concepts and Harvest Technologies, together with RedEye, we expect to create a strategic platform to meet our customers' additive manufacturing requirements by significantly expanding our offering, targeting new applications, and strengthening our customer relationships. As our customers' requirements continue to expand, we must evolve to create full service offerings that provide a variety of technologies and custom manufacturing solutions and focus on high-end production applications. Solid Concepts and Harvest Technologies are industry pioneers and innovators in the additive manufacturing space. In acquiring these two unique companies, Stratasys is gaining a broad solutions offering with technologies and decades of application and manufacturing experience which, together with RedEye, are expected to create an industry-leading additive manufacturing and parts production platform."

"These transactions are consistent with our core strategic imperatives and M&A strategy, which is

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focused on acquiring leading companies to support our goal of continued leadership in the segments in which we operate, as well as reaching new niche verticals," Mr. Reis continued. "We will apply our integration expertise to combine Solid Concepts and Harvest Technologies with our existing RedEye digital manufacturing service business to form a single business unit focused on additive manufacturing services. Importantly, with our shared cultures of innovation and customer service, we believe this will be a smooth transition. We look forward to welcoming the talented teams of Solid Concepts and Harvest Technologies to Stratasys - we are confident we have a very bright future together."

Joe Allison, President of Solid Concepts, said, "We are excited to be joining forces with Stratasys, a global leader in 3D printing and additive manufacturing. As part of a larger company with a broad customer reach and market coverage, Solid Concepts will be even better positioned to meet the significant demand for our additive manufacturing offerings. We look forward to working with Stratasys to ensure a smooth and orderly integration of our businesses."

David K. Leigh, President of Harvest Technologies, said, "We are delighted to join forces with Stratasys and Solid Concepts in a transaction that will enhance Harvest Technologies' leadership in producing end use parts using the most advanced additive manufacturing technologies and processes."

Benefits of the Transaction

- **Creates a leading strategic platform to meet a broad range of customers' additive manufacturing needs.** The acquisitions of Solid Concepts and Harvest Technologies provide Stratasys with the ability to offer customers a more comprehensive solution based on multiple technologies that address a broad spectrum of additive manufacturing needs. The combination of Solid Concepts' deep knowledge of manufacturing and vertical focus, such as medical and aerospace, and Harvest Technologies' experience in parts production, as well as materials and systems knowhow, strengthens Stratasys' direct digital manufacturing and parts production expertise.
- **Provides Stratasys opportunities to leverage significant manufacturing services capabilities.** With their capacity, knowledge and experience, Solid Concepts and Harvest Technologies are expected to allow Stratasys to expand into a broad range of capabilities and applications expertise across a wide range of new and existing applications. The strong and experienced management teams of Solid Concepts and Harvest Technologies, combined with RedEye, provide deep process knowhow around using additive manufacturing for production applications.
- **Creates opportunity for cross-selling synergies.** Once Solid Concepts and Harvest Technologies, together with RedEye, have been integrated into a single business unit, Stratasys will leverage cross sell opportunities that are expected to generate long-term synergies with the company's system business.
- **Compelling financial benefits.** Both Solid Concepts and Harvest Technologies have strong financial track records. The transactions are expected to be accretive to Stratasys' non-GAAP earnings per share within the first 12 months after closing.

Investor Conference Call and Webcast

A conference call to discuss the acquisitions is scheduled for Wednesday, April 2, 2014 at 7:00 a.m. Central Time / 8:00 a.m. Eastern Time / 3:00 p.m. Israel Time. To participate by phone, the U.S. dial-in number is +1 (866) 610-1072, and the international dial-in number is +1 (973) 935-2840. Please reference conference ID# 21538988. Participants are advised to dial into the call at least 10 minutes prior to the call start time to register. The conference call will also be available via live webcast on

the Stratasys website at Stratasys.com under the "Investors" tab. A presentation will accompany the conference call.

A replay of this conference call may be accessed by webcast or by telephone. To access the replay, please dial +1 (800) 585-8367 (U.S.) or +1 (404) 537-3406 (international) and reference conference ID# 21538988. The replay and archived webcast will be available through 11:59 p.m. ET on April 9, 2014.

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Company News

Bentley Announces Inauguration of New STAAD Foundation Advanced User Group in Japan

2 April 2014

Bentley Systems, Incorporated, today announced the inauguration of a [STAAD Foundation Advanced](#) User Group in Japan. The new group's membership will include leading engineering, procurement, and construction firms as well as design firms across the region. Among them is JGC Corporation, one of the world's leading engineering contractors, and Toyo Engineering, a global leader in engineering and construction for industrial facilities.

Commenting on the new user group, Mr. Yukio Uchida, group manager, Technology Group, Civil and Building Department, Engineering Division, JGC Corporation, said, "The fact that the *STAAD* product family, which is widely recognized and employed around the world by our clients, encompasses foundation design is of significance to our work processes. Through our use of this software, I anticipate being able to rationalize our design work as we more effectively coordinate our foundation design practices for steel structures and our [STAAD.Pro](#) structural analysis and engineering workflows."

He continued, "In addition, with this total solution, which includes vessel foundation design, it's possible to coordinate with other 3D modeling applications and export to them detailed drawings and material lists. Though we would like to see additional refinements to the software to meet our specific requirements, the majority of these are already in progress. In addition, I look forward to future developments initiated by interactions among our user group members."

Mr. Yasuhiro Masui, associate principal civil engineer, Engineering IT Center, Piping and Civil Engineering Division, Engineering Unit of Toyo Engineering Corporation, said, "*STAAD.Pro* has played a crucial role in establishing a standard for steel structural design work around the world. Currently, there is no such standard for foundation design, but we have great hopes that [STAAD Foundation Advanced](#) will assume the role.

"The requests submitted by our *STAAD Foundation Advanced* User Group in Japan are in the process of being implemented. Through this user group's activities, we will support Bentley Systems in continuing to enhance this software. At the same time, we will employ what we learn through discussions with other members to review our company's *STAAD Foundation Advanced* design processes."

Mr. Santanu Das, Bentley senior vice president, design and simulation, said, "On behalf of my colleagues at Bentley, I heartily welcome this prestigious membership to the Bentley community of independently operated user groups around the globe. In addition to coming together to discuss and share information with each other across a variety of technical solutions, this group will also provide important feedback to the Bentley development team tasked with consistently enhancing *STAAD*

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Foundation Advanced's innovative capabilities in keeping with changing user requirements.”

STAAD Foundation Advanced is a comprehensive foundation design program that offers the ability to model complex or simple footings, including those specific to plant facilities. The software provides a streamlined workflow through its integration with [STAAD.Pro](#) and can also be used as a stand-alone program. Efficient design and documentation are realized through its plant-specific design tools; multiple design codes with Japanese, U.S., and other international bar sizes; design optimization; and automatic drawing generation. Moreover, productivity is increased through the ability to utilize the structural model with the foundation model because of the software's integration with *STAAD.Pro*. Changes made in the *STAAD.Pro* model are tracked and can be merged automatically with the foundation model.

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CAD Schroer Customer Day 2014: A Provider Who Listens

3 April 2014

“Today you shared many new possibilities and future plans with us. You showed us that you not only carefully study your customers' requirements, but that you also act upon them,” said one of the many customers who considered it a day well spent.

CAD Schroer's customers came to find out about the engineering software provider's latest developments, to get their hands on some prototype software, and to network with like-minded users.

New Products, New Developments, and a New Generation

This year CAD Schroer was able to share a plethora of new product developments, including a new mid-range product line, which includes the standalone process and instrumentation diagramming system, M4 P&ID FX. Customers also had a first glance at M4 ISO, a new solution for the automatic generation of pipe isometrics from 3D piping design data.

Different demonstrations showed how feedback from a loyal customer base has informed the latest developments in the MPDS4 plant design software and the MEDUSA4 parametric drafting system. And a tantalising glimpse into the next product generation was followed by some hands-on workshops to glean customer reactions and preferences.

Download the new M4 P&ID FX software trial:

http://www.cad-schroer.com/products/m4-pid-fx/free-trial.html?pk_campaign=pr1403_afterKundentag

“Our customer day offers a great opportunity to find out the things that really matter to our customers, and the challenges they face every day,” says CAD Schroer Managing Director Michael Schroer.

“It's a huge reward for our hard-working teams when customers take time to come see us, and when they recognise that we really do listen to their needs and continue to develop technology that helps them deliver superior solutions to their customers.”

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CAD/CAM Software Company, SharpCam, Officially Enters United States Market

2 April 2014

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The company SharpCam Ltd has had a wide presence in the United Kingdom for several years and has now recently set up a SharpCam USA office to extend the company's valuable CAD/CAM software products and services.

SharpCam is different from other CAD/CAM software vendors for a wide variety of reasons. One of the differences is that SharpCam CAD/CAM software is made to be simple. The company's slogan, "Design it. Cut it.", describes the simplicity that SharpCam aims to create for their customers. Just in case a customer needs help, SharpCam offers free support and service, which includes general support, free post processors, post customizations, and RS232/DNC support.

Chris Walker, Director of Tromeo Ltd, says, "We started a new engineer, with no CAD/CAM experience, and within a day he was producing parts! It doesn't get much easier than SharpCam!"

SharpCam also offers other benefits many major vendors do not offer including an incredibly low upfront cost, no maintenance fees, one year of free upgrades, and more.

"I was not really looking to replace my existing CAD/CAM system, but after seeing what SharpCam could do, and at that price, I didn't hesitate to make the change. The Machine Definitions work straight out of the box, no more editing NC code by hand!" says Cliff Eglington, a SharpCam customer.

The user interface uses Microsoft's DirectX technology allowing the software to produce high performance graphics and ensuring flicker free operation. SharpCam uses Advanced Polygon Model based integrated toolpath verification allowing for solid, translucent or wireframe animated tool display. The software also uses powerful snapping that is usually only found in high end CAD systems making SharpCam the easiest and quickest system available at an affordable price. SharpCam has even more features including a Machine Developer, Machine Definition Configuration, Advanced Pocketing, Always There NC Code, Full Associativity, a super easy G-Code editor with built-in RS232/DNC communication capabilities and so much more.

With the new office in the United States located in Tampa, Florida, SharpCam is excited to have a presence in a new country. By expanding locations, SharpCam is also able to expand the reach of their technical support and customer service offerings and of course their high quality yet affordable CAD/CAM software their programmers have worked so hard to create.

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IDC AG Represents BIMObject® on the Swiss Market

3 April 2014

Since its foundation in 1985, the Swiss company IDC AG focuses on a close collaboration with renowned manufacturers and has a large range of products with objects/components of known brands such as air-lux, RUFALOX and Belux etc. By this experience IDC AG established a continuously growing object library for ArchiCAD in order to give their users even more freedom when creating and designing buildings.

With the new partnership BIMObject® wins another experienced partner who will fulfill the professional support needed for the Swiss market. Sales activities will primarily be operated by the two partners Luke Desserich and Frank Arnet, mainly throughout the German-speaking parts of Switzerland.

CIMdata PLM Industry Summary

”The fascination with well-made architecture and the enthusiasm for meaningful information technologies has always been a passion for the entire IDC team. Our deep connections in the network of architects and the building industry in Switzerland is an ideal opportunity to expand our service portfolio by working with BIMobject®”, says Frank Arnet, IDC AG.

John Reischböck, COO of BIMobject AB and CEO of BIMobject Germany GmbH, is convinced that the partnership with IDC AG represents a tremendous value and will ensure the profitable and promising development of both parties on the Swiss market.

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Intergraph® Online User Groups Surpass 10,000 Members

27 March 2014

Intergraph® Process, Power & Marine, announced that its Technical User Forum (TUF) groups have surpassed the 10,000-member milestone. Intergraph’s TUF groups provide an online peer-to-peer discussion forum for year-round global networking between users of Intergraph software, allowing them to share expertise, knowledge and best practices as well as interact with Intergraph product owners.

Current official groups include:

- Smart™ 3D (incorporates SmartPlant® 3D / SmartMarine® 3D)
- SmartPlant Electrical
- SmartPlant Enterprise for Owner Operators (SPO)
- SmartPlant Foundation (SPF)
- SmartPlant Instrumentation
- SmartPlant Materials
- SmartPlant Piping & Instrumentation Diagram (SP P&ID)
- SmartPlant Review
- SmartPlant Spoolgen
- SmartSketch

The TUF groups have consistently achieved month-over-month growth in membership since Intergraph began tabulating group statistics in January 2012. Total TUF group membership recently surpassed 10,000 with the largest group, Smart 3D, currently exceeding 2,200 members.

Patrick Holcomb, Intergraph Process, Power & Marine’s executive vice president of global business development and marketing, said, “Most of our membership has come from word of mouth, so growing from zero to over 10,000 user-group members in a few years is a tremendous statement about what users think of the new online user forums. Intergraph TUF groups provide a channel for users of PP&M’s innovative solutions to network with peers globally and stay abreast of technical and commercial updates. We continue to receive great feedback and see growth in active discussions among group members. We look forward to expanding these forums for the benefit of Intergraph client members and our employees.”

To learn more about Intergraph solutions and network with other Intergraph users, visit:

www.intergraph.com/go/tuf.

CIMdata PLM Industry Summary

Intergraph PPM TUF groups were created to allow users of Intergraph solutions to interact and share information with each other and product owners globally, regionally and 24/7. Online engagement benefits regional TUF chairpersons by helping them organize local user meetings, while global chairpersons can organize global TUF group meetings, collect input for meeting agendas and receive feedback from technical users.

Intergraph PP&M will host TUF group meetings on Sunday, June 1, 2014, prior to the start of HxGN LIVE 2014, Hexagon's annual international users' conference, at the MGM Grand Resort in Las Vegas, Nev., June 2-5. All TUF group meetings will be at the MGM Grand Convention Center and are free to attend. Registration and information for HxGN LIVE can be found at www.hxgnlive.com.

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Kisters AG and Aras Partner to Deliver High Performance 3D Digital Mockup

3 April 2014

Aras® today announced a partnership with Kisters AG to integrate the high performance 3D digital mockup product 3DViewStation to the Aras PLM platform for multi-CAD digital mockup. Users will have industry leading speed, power and accuracy for performing sophisticated analysis and viewing of aircraft, automobiles, equipment and other complex systems directly from the Aras Innovator® suite.

KISTERS 3DViewStation is compatible with leading 3D CAD systems including CATIA, NX, CreoElements | Pro/ENGINEER, SolidWorks, Inventor, Solid Edge and neutral formats such as JT, STEP, 3D-PDF and PRC.

"The need for high performance digital mockup with inputs from multiple different CAD applications has become critical for next generation systems engineering," said John Sperling, Vice President of Product Management at Aras. "We chose to work with Kisters because of their advanced 3D DMU technology for analysis, industry leading DMU performance and their global reputation for quality."

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Missler Software reinforces its Marketing Team with 2 new Recruits

1 April 2014

Missler Software has recently hired 2 new Marketing Executives to boost its Marketing and Communications actions both in France and internationally. Anne Laurier has joined Missler Software at its Lyon office and Emile Soullard is based in company Head Quarters just outside Paris.

"We have historically been a very technically oriented company. This has not changed and thanks to our innovative product development thousands of companies throughout the world use TopSolid today. We need, however, to increasingly communicate on our innovative product range to boost the efforts of our sales teams in France and across the globe," explains Marc Choquin, Sales Director for Missler Software. "We have a revolutionary product range, we are one of the only software developers to have completely rewritten our software in terms of software technology and methodology. We need to continually communicate and sell this to industrials in need of a high-performance software solution."

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Graduated in Business and Marketing from a well-reputed French Business School, Anne Laurier has 17 years experience in Marketing, Channel Management and Sales. With more than 5 years experience in a fast-moving, international high-tech company Emilie Soullard graduated in Applied Languages and International Affairs from reputed Business Schools in France and Germany.

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PTC, Florida Institute of Technology Announce Center for Lifecycle and Innovation Management

1 April 2014

Continuing with its mission to provide opportunities for business and engineering students to develop real world engineering and product/process development skills, [PTC](#) today announced it is working with the Florida Institute of Technology to offer its students the same industry technology used by 27,000 PTC global manufacturing customers to design and develop sophisticated products.

PTC will donate PTC Windchill® software for PLM process requirements and PTC Creo® software for CAD design to provide an environment for students to design, test and simulate the entire lifecycle associated with bringing new products to market. The PTC donation will form the core of the Florida Institute of Technology's Center for Lifecycle and Innovation Management and will be integrated into its management information systems curriculum. The university will provide projects for students to complete, giving them an opportunity to understand and implement best-practices in an actual design, production and management environment.

“Florida Tech’s goal is to be one of the 10 most respected private technological universities in the world,” said Anthony J. Catanese, President and CEO, Florida Institute of Technology. “Delivering this type of quality program to students helps them prepare for business and engineering careers with companies located along the Space Coast as well as around the globe.”

The Georgetown Center on Education and the Workforce indicates there will be 2.4 million jobs created in STEM fields in the U.S. by 2018. The need for more graduates in science, technology, engineering and math is felt by many global manufacturers, which makes it critical that universities like Florida Tech are successful in building a qualified work force to fill the pipeline with graduates capable of entering an increasingly technical work world.

In addition to donating software to the university, PTC is providing 20 scholarships for students that want to develop expertise in PTC Creo and PTC Windchill business and system administration.

“The global design process adopted by many manufacturers requires an understanding of Product Lifecycle Management and is a necessary skill for graduating students,” said John Stuart, senior vice president, global education, PTC. “Manufacturers want people that understand all aspects of product design to help them make smarter decisions to build better products. PTC is glad to work with the Florida Institute of Technology to integrate world-class technology into its curriculum to achieve that goal.”

Florida Tech is an international leader in education annually serving more than 16,000 students through its Melbourne campus, extended studies sites across the country and online programs. In 2013, Florida Tech was recognized as one of the top 200 universities in the world by the *Times Higher Education* of London. The university has been named the third-fastest-growing private nonprofit research institution in the United States by the *Chronicle of Higher Education*, Florida Tech is also annually ranked a Tier

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One Best National University by *U.S. News & World Report*.

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Siemens PLM Software Awarded 5-Star Rating in CRN's 2014 Partner Program Guide

31 March 2014

Siemens today announced that its PLM Software business unit has been awarded a 5-Star rating in the CRN 2014 Partner Program Guide. 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. CRN is a media outlet of The Channel Company.

[Siemens PLM Software's Channel Partner community](#) includes more than 650 independent solution providers, employing over 7,500 people that support more than 40,000 customers worldwide. Siemens continues to enhance its Channel Partner program for PLM software through increased investment in the program and through the continued growth and expansion of its entire extended enterprise. By providing access to its world-class PLM software solutions, open business philosophy, high partner services attach rates, technology partner network and dedicated workforce, Siemens PLM Software has created a global Channel Partner program that extends its market reach, delivers above market revenue growth, and increases profitability for its channel partners.

To determine the 2014 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."

"We are honored to receive a 5-Star Partner rating from CRN for the eighth straight year," said Jeff Zobrist, Vice President of Global Solution Partner Sales, Siemens PLM Software. "This repeated recognition underscores the consistent quality and rich experience of the extended channel team that supports our partners' businesses every day. This quality and experience is why our channel partner revenue contribution has more than doubled since the program was launched. Today, our commitment to our channel partners' success is stronger than ever and is supported by the positive feedback we receive directly from our partners around the globe."

The 2014 Partner Program Guide will be featured on CRN.com and the 5-Star Partners listing will be highlighted in the April issue of CRN.

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Events News

3D Systems Delivers 3D PRINTING 2.0 to Baselworld 2014

28 March 2014

[3D Systems](#) announced it will be exhibiting at [Baselworld 2014](#), one of the world's most important watch and jewelry show, from March 27–April 3, 2014 in Basel, Switzerland. In partnership with resellers from around the world, 3D Systems will be showing the 150,000 attendees how digital design and 3D printing can accelerate jewelers' production processes and business models.

3D Systems will be located in Hall 4U, Stand A01, at the Messe Basel, with six of its resellers in attendance to demonstrate a range of 3D-printed jewelry and watchmaking technologies: [Almera](#) from Turkey, [Prototek/Selitek](#) from Italy, [Miradur](#) from China, [Steiner](#) from Switzerland, [Shree Rapid Technologies](#) from India, and [Westcam](#) from Austria. Together these companies will explain and demonstrate how 3D PRINTING 2.0 allows jewelry designers and manufacturers to improve product quality, shorten product time-to-market, and reduce costs.

“Our 3D printing technologies allow very fast but very accurate production of jewelry casting patterns and end-use metal parts direct from digital designs,” said Cathy Lewis, Chief Marketing Officer, 3DS. “These technologies are allowing rapid evolution of workflows for jewelry design-to-production processes into the digital 3D printing age.”

Visitors to BaselWorld will be able to get an up-close look at the new [ProJet 1200 micro-SLA printer](#), ideal for fast, accurate creation of small but very detailed 3D-printed jewelry casting patterns. In addition, visitors can see the [ProJet 3500 3D](#) printer range for creation of RealWax and ProCast casting patterns, micro and specialty investment casting. For larger-scale casting the [ProJet 6000 SLA printer](#) will be on hand to show mass-production of the most complex, high-precision casting patterns for industrial uses. [3D Systems' Geomagic Freeform organic sculpting](#) and design tools will be on display for attendees to experience, as well as direct metal sintered parts.

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CIMdata's Don Tolle to Speak on Digital Product Definition Trends, Challenges, and Opportunities at Collaboration & Interoperability Congress

31 March 2014

Longview Advisors, organizers of the annual Collaboration & Interoperability Congress (3DCIC), announced that Donald Tolle, Director of CIMdata's Systems Engineering & Simulation Consulting Practice, will be a featured speaker at the 2014 3D Collaboration & Interoperability Congress, to be held May 28-30 in Colorado Springs, Colorado. 3DCIC (www.3DCIC.com) is dedicated to fostering and improving collaboration and interoperability throughout the product lifecycle. Conference organizers are pleased to announce that NAFEMS (the International Association of the Engineering Modeling, Analysis and Simulation Community – www.nafems.org) is holding their biennial American conference at 3DCIC 2014. In addition, the PDES Board of Directors will again hold their annual meeting at 3DCIC and the 3D PDF consortium will be joining again for its third annual meeting.

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“The 3D Collaboration & Interoperability Conference has become an annual ‘must attend’ event on the PLM industry agenda for senior engineering and IT professionals,” says Tolle. “This year, combining 3DCIC with the NAFEMS 2014 Americas Conference will introduce a unique dimension to the proceedings, highlighting the emerging trend towards integrating systems performance modeling and simulation into the mainstream of the product development lifecycle process.”

Highlights of Mr. Tolle’s presentation include current trends and challenges in the emerging digital product definition area of model-based systems engineering, along with the process improvement opportunities available by linking these early stage conceptual design activities with multi-domain performance simulation activities.

Don Tolle has more than 30 years of PLM industry experience in the disciplines of new product development and virtual product development, working with global manufacturing companies in the automotive, aerospace & defense, industrial equipment, marine, consumer products, medical products, and high-tech electronics industries.

To learn more, visit: <http://cimdata.com/en/events/plm-industry-events/event/46-2014-3d-collaboration-interoperability-congress>

Presentations and audio from past events are freely available at the congress website www.3DCIC.com, along with comments from past attendees, and a list of past attendees.

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Delcam Offers Free Computers at MACH

3 April 2014

Delcam will include a free PC with all orders for more than £10,000 of the company’s software placed on stand 4011 during the MACH exhibition to be held in Birmingham from 7th to 11th April. The offer applies across Delcam’s complete range of CAM programs; PowerMILL for high-speed and five-axis machining, FeatureCAM for feature-based production machining, PartMaker for programming turn-mill equipment and Swiss-type lathes, and ArtCAM for artistic manufacturing applications such as engraving and woodworking.

Organisations that already use Delcam’s CAM systems will receive the free PC if they place orders above £10,000 for extra seats or for any of the company’s supporting software, including PowerSHAPE for data translation, reverse engineering and tooling design, or PowerINSPECT for inspection of parts or tooling against 3D CAD data.

“Delcam has enjoyed rapid growth in our sales of software in the UK in the last three years so we wanted to give something back to our customers to thank them for their support,” explained Steve Creron, General Manager of Delcam UK. “We recognise that many of our customers are still having difficulty in getting the finance they need to invest in more powerful CAD/CAM software so we hope that our offer of free PCs will help.”

“Our latest generation of software takes advantage of the many enhancements in the latest PC configurations, such as 64-bit technology, multi-threading and background processing,” added Mr. Creron. “With their free PC, we can be sure that our customers will be gaining the maximum benefit from our software, with faster calculation times and increased productivity.”

The free PC will be supplied with Windows 8 Professional 64 Bit operating system, Intel Core i7-

CIMdata PLM Industry Summary

4770K 3.5 GHz CPU, NVIDIA Quadro K600 graphics card, 16GB RAM, 256GB solid state drive, AVG anti-virus, monitor, keyboard and mouse, plus a three-year warranty.

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Geometric introduces CAMWorks® Virtual Machine at DieMould 2014

3 April 2014

[Geometric Limited](#) will premier CAMWorks Virtual Machine along with the latest version of its programming solution, CAMWorks® 2014, at DIEMOULD INDIA 2014 in Mumbai, India from April 17-20, 2014.

[CAMWorks Virtual Machine](#) enables users to verify the true G-code, not only the CL data, and save precious shop floor time by checking on complex machine settings, sub-programs, canned cycles and work offsets in a virtual environment. This allows the user to preview the entire machining process and make any necessary changes or adjustments before the part goes to the shop floor, preventing time-consuming errors and costly collisions; thus, potentially saving hundreds of hours for our customers and ensuring manufacture of parts right the first time. In addition, it is integrated completely with CAMWorks, making it a single-click verification and easy to use.

Visitors at [DieMould](#) India will get an opportunity to connect with solutions experts and learn how they can minimize their delivery time with CAMWorks. CAMWorks' feature-based machining enables die and mould industry users to automate significant portions of their CNC part programming, thus reducing programming time by as much as 90%. With [CAMWorks VoluMill™](#), users can achieve machining time savings of up to 80% even in difficult to machine tool steels. This complete solution addresses the end-to-end needs for any CNC programming requirement of our customers.

“Our industry leading technology enables customers to significantly save programming time. Today, the die and mould industry is operating in an extremely competitive environment.” says Sameer Kondejkar, the head of Geometry Technology Solutions at Geometric. “By covering the entire value chain with reduced programming time, reduced setup time and reduced machining time, we help our customers stay ahead of the curve.”

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Financial News

Infosys to Announce Fourth Quarter and Annual Results on April 15, 2014

1 April 2014

Infosys Limited, a global leader in consulting, technology and outsourcing services, will announce results for its fourth quarter and year ending March 31, 2014 on Tuesday, April 15, 2014, Indian Standard Time (IST) (on the night of Monday, April 14, 2014, US Eastern Time (ET)). The results will also be available on <http://www.infosys.com>.

Following the release, Infosys Founder and Chairman, Mr. N.R. Narayana Murthy, CEO and Managing

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Director; Mr. S.D. Shibulal, CFO; Mr. Rajiv Bansal, and other members of the senior management will comment on the company's performance.

There will be a common television address by Mr. S.D. Shibulal and Mr. Rajiv Bansal at 10:00 a.m. IST on business television channels addressing analyst questions. The common TV address will be streamed live on the Investor Relations section of the Infosys website. This will be followed by a detailed discussion on NDTV Profit from Bangalore at 10:15 a.m. IST on April 15, 2014 (this will not be telecast in the US). An archive of this event will be uploaded on <http://www.infosys.com> after 2:00 p.m. IST on April 15, 2014 (after 4:30 a.m. US ET on April 15, 2014).

This event will be webcast live on the Investor Relations section of the Infosys website and an archive can be accessed at <http://www.infosys.com> after 11:00 a.m. ET on April 15, 2014 (after 8:30 p.m. IST on April 15, 2014). A transcript of the conference call will be available at <http://www.infosys.com>.

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OpenText to Report Third Quarter Fiscal Year 2014 Financial Results

3 April 2014

Open Text™ Corporation today announced that financial results for its third quarter fiscal year 2014 will be released on Thursday, April 24, 2014 at approximately 4:00 p.m. ET.

Teleconference Call

Mark J. Barrenechea, OpenText CEO and Paul McFeeters, OpenText CFO will host a conference call on April 24, 2014 at 5:00 p.m. ET to discuss the company's financial results.

Date: Thursday, April 24, 2014

Time: 5:00 p.m. ET/2:00 p.m. PT

Length: 60 minutes

Where: 416-644-3414 (international)

800-814-4859 (toll-free)

Investors should dial in approximately 10 minutes before the teleconference is scheduled to begin. A replay of the call will be available beginning April 24, 2014 at 7:00 p.m. ET through 11:59 p.m. on May 8, 2014 and can be accessed by dialing 416-640-1917 (international) or 877-289-8525 (toll-free) and using passcode 4677835 followed by the number sign.

For more information or to listen to the call via web cast, please use the following link:

<http://investors.opentext.com/events.cfm>.

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Implementation Investments

CimatronE Reduces Cutting Time by Half for Danish Shop

31 March 2014

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[Cimatron Limited](#) announced today that its integrated CAD/CAM software, CimatronE, will be demonstrated at the booth of reseller NTI CADcenter at the VTM trade show in Denmark, April 1-4, 2014, booth #5107.

CimatronE is used by many Danish manufacturers with great success. Among local customers is the foundry company, Dansk Skalform, a fabricator of small and complex molded thin-walled castings. The shop recently performed a cutting job using CimatronE with the integrated VoluMill ultra-high performance machining technology. The cutting was performed onsite together with tool vendor KJV and NTI CADcenter on the shop's CNC machine.

"CimatronE with VoluMill and the sidemilling tool from KJV gave us a fantastic new setup for efficient roughing," said Peter Dissing, Dansk Skalform's CEO.

"It was amazing to see the amount of chips being cut from the stock in record time. Cutting time was reduced by some 49% with the VoluMill technology and it was even possible to increase the feed rate to 150% without pushing the machine or the cutting tool to its limits."

Dansk Skalform started using CimatronE's new VoluMill at the end of 2013, but Mr. Dissing says that the company has already benefitted from the decision: "We use CimatronE with VoluMill as much as possible when performing rough operations. It sounds efficient, runs effectively, and continues to help us reduce our costs."

CimatronE's VoluMill functionality will be demonstrated at VTM at the booth of NTI CADcenter. CimatronE's other mold design and NC programming capabilities will also be shown, including: parting, electrode, automated drilling, and 2.5-5 axis milling.

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Delcam's FeatureCAM Feature-Based CAM System used for Drill Manufacture

1 April 2014

Burintekh, a developer and manufacturer of tools for the drilling and maintenance of oil, gas and mining wells, has added Delcam's FeatureCAM feature-based CAM system to help the company cope with the ever-increasing complexity of its customers' designs and the constant pressure for faster delivery.

Burintekh, which was founded in 1999, has a modern production base equipped with the latest equipment, including a range of multi-axis machining centres, and effective quality control at all stages of production. This allows the company to manufacture a wide range of competitive products, meeting all the requirements and wishes of its most demanding customers. For its achievements, Burintekh was awarded the honorary title of "Best Industrial Company of the Republic of Bashkortostan" in 2009.

As part of its development programme, the company acquired several new turning, milling and five-axis machines during 2011 and 2012. The next stage was to add a powerful and versatile CAM system that could unleash the full potential of the new production equipment. FeatureCAM was chosen because it could provide fast, automated programming for the full range of machine tools at Burintekh.

Among the most challenging projects undertaken by the company is the manufacture of roller-cone drill bits for tools used in drilling oil and gas wells. The manufacture of this type of product on CNC machines requires the development of highly-complex machining programs. These programs would be

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almost impossible to create without the use of a modern CAM system but are handled easily in FeatureCAM, according to Arthur Islamgulov, the engineer at Burintekh responsible for the full complement of machine tools.

The first stage is to turn blanks of the basic shape on a lathe. CNC milling of the detailed design is then carried out on a five-axis machine tool. FeatureCAM is first used to generate toolpaths for each size of tooth within the drill design. It then duplicates the various programs as required to produce toolpaths for all the other teeth. Once the complete program has been created, the shape produced by FeatureCAM can be compared with the original 3D model of the part to ensure that the whole design will be produced within tolerance.

As well as appreciating the benefits of his FeatureCAM software, Mr. Islamgulov praised the support from the technical experts at Delcam Ural. “One of the key factors in our successful deployment of our FeatureCAM software has been the regular technical support from Delcam Ural,” he said. “Senior Support Engineer, Alexander Dementiev, provided us with an excellent level of training, and followed that up with timely and high-quality support for even our most complex tasks.”

One particularly important area for assistance was modifying the standard FeatureCAM post-processors to match exactly the equipment at Burintekh. This was initially carried out soon after FeatureCAM was first purchased. However, improvement of these post-processors is still being carried out because, with the passage of time, the users within the company learn about new functions in their machines and, of course, they have a desire to use these options.

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Intergraph announces that Saipem Enters an Agreement to Standardize on Intergraph® SmartPlant® Technology

3 April 2014

Intergraph announces that Saipem, an engineering, procurement, project management and construction company, has chosen to standardize on Intergraph® SmartPlant® and SmartMarine® Enterprise engineering solutions. The agreement includes Intergraph next-generation 3D design software Smart™ 3D.

Smart 3D is used for both onshore plant design and offshore and ship design. Smart 3D is one of the industry's most advanced and most productive next-generation 3D design system on the market, offering numerous unique capabilities including automated, rule-based design. Users can reuse FEED or old designs with different catalogs and specifications by leveraging Smart 3D's unique rule re-use, tag renaming and specification interchange. Also, enhanced 3D interoperability capabilities enable the use of 3D data from multiple foreign CAD systems in conjunction with native Smart 3D models.

SmartPlant/SmartMarine Enterprise is an integrated solutions suite that provides full design, construction, materials and engineering data management capabilities needed for the creation, safe operation and maintenance, and capital Project Life Cycle Management (cPLM) of process, power, offshore and shipbuilding projects.

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MARSYLKA Selects Visual 2000 End-2-End Suite of Fashion Business Software

31 March 2014

Visual 2000 International announces that ladies lingerie and nightwear manufacturer Marsylka has begun implementation of the Visual End-2-End™ suite of software products. The Yorkshire-based firm is one of the UK's leading suppliers to the high street. Marsylka Director Robert Hainsworth commented "we pride ourselves on working with our customers to produce the perfect collection, whilst taking into account margin and delivery deadlines. We undertook detailed market evaluation to find the most efficient and modern solution to support us in this, which is Visual 2000. We will now be able to connect all our departments within a 'one stop application' including our manufacturing facilities in Sri Lanka which is exactly what we wanted. It's an exciting chapter for Marsylka, as we can combine our business growth with modern fashion technology."

Visual 2000 UK Sales Director Mark Gaydon confirmed "We are delighted to be working with Robert and his management team on this project. Marsylka are an established, well respected business and will benefit from Visual's Rapid Deployment Process (RDP). This will enable quick gains and benefits of Product Lifecycle Management (PLM), Enterprise Resource Planning (ERP) and other key fashion capabilities included in the all-in-one business enterprise solution.

Visual's new V8 software release centralises all product information and processes into a single system which empowers management and teams to increase operational efficiencies and streamline design, product development, production, and distribution processes. In addition to comprehensive PLM and ERP capabilities, Marsylka will benefit from Visual End-2-End financial management, business planning, supply chain management, multi-channel sales and order fulfilment, and other concept-to-consumer fashion software components".

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Product News

3D PDF Consortium Member 3D APPS Announces New Products

1 April 2014

3D APPS LLC, a subsidiary of Koren technology company Intratech and 3D PDF Consortium member company, announced the release of not one, but three new apps for working with 3D PDF files. These three new programs, available immediately, are the first released from the newly established division located in Irvine, CA.

The first of these new applications is targeted to the users of the Autodesk Navisworks application for plant design and heavy construction. The 3D APPS 3D PDF Exporter for Navisworks works within the native application selected portions or entire models from Navisworks to 3D PDF, as well as allowing other data such as clash detection and property information to be included.

For users of Integraphs' PDMS application, 3DAPPS Exchange for RVM to 3DPDF application allows the PDMS users to convert RVM files into 3D PDF without the need to make use of the PDMS software itself. Entire designs or selected portions can be published into a single 3D PDF which can also include

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the hierarchy of the design, object properties and other data.

While many developers have focused only on how to generate 3D PDF from native models, 3D APPS LLC has taken a very innovative approach by releasing an app that consumes 3D PDF files to support design reviews and project management. 3DAPPS Exchange for 3D PDF to NWC/DWF software takes 3D PDF's generated from any design application and will create a NWC or DWF file that can be used in project review software such as Navisworks or Design Review. All of the data within the 3D PDF is imported into the specified project review application.

For more information on these products, including information on how to purchase, please visit www.edesignreview.com

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Altair's HyperWorks Unlimited Private Cloud Appliance Earns Intel Cluster Ready Certification

3 April 2014

[Altair](#) today announced that its HyperWorks Unlimited™ appliance for computer-aided engineering (CAE) has been certified as Intel® Cluster Ready, verifying the product's status as a plug-and-play solution for high-performance computing (HPC).

HyperWorks Unlimited is a fully managed, state-of-the art appliance designed to reduce the time and cost associated with enabling HPC for high-end engineering. The product includes pre-configured HPC hardware and software, with unlimited use of all Altair HyperWorks® CAE applications as well as PBS Works™ HPC workload management software.

"Achieving Intel Cluster Ready status is another proof point verifying how elegantly HyperWorks Unlimited is architected for installation and usage," said Ravi Kunju, Vice President of Strategy and Business Development at Altair. "With Intel Cluster Ready certification, users can be certain the solution is ready to perform. Customers simply wheel in the appliance and turn it on – all our HyperWorks design software is immediately at their fingertips for unlimited virtual exploration, with the solid platform of PBS Works to manage workloads and interact with resources. By its design, business model, and support structure, HyperWorks Unlimited eliminates the complexity of HPC adoption for computationally intensive engineering, regardless of the size of the company, increasing the flexibility and scalability of information technology (IT) investment."

Developed with hardware and software vendors, Intel Cluster Ready is a program that lets users match HPC applications to today's leading platforms and components. Pre-configured Intel Cluster Ready solutions are delivered ready to run, so users can get more simulations done faster. The Intel® Cluster Checker is a key element of the Intel Cluster Ready validation process and helps to verify that cluster components continue working together throughout the cluster lifecycle. This increases uptime and productivity while reducing total cost of ownership.

"IT departments supporting critical engineering projects, such as virtual car crashes or aircraft design testing, need the freedom to focus on purchasing the configuration that best fits their application workload, without being experts in HPC architectures and worrying whether the components will work together. Intel Cluster Ready gives them that assurance," explained Dr. Stephen Wheat, Technical Computing Group, Intel Corporation. "With this Intel Cluster Ready certified CAE appliance from

Altair, engineering teams can realize HPC benefits faster, increase productivity and see higher returns on their HPC investments."

Altair and Intel discuss the Intel Cluster Ready certified HyperWorks Unlimited appliance while profiling a success story for an automotive manufacturing client in an online [webcast](#).

For more information about HyperWorks Unlimited, including system specifications and a product data sheet, please visit <http://www.altair.com/hwul/>.

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Altair Supports Aerospace Innovation with HyperWorks®

2 April 2014

The latest version of HyperWorks, to be highlighted at the Aircraft Interiors Expo 2014 April 8-10 (Altair booth 6D60), represents the most advanced evolution of computer-aided engineering (CAE) technology applicable to the aerospace industry. HyperWorks provides a comprehensive suite of tools for every phase of aircraft innovation, from initial concept generation through the entire product lifecycle.

Aircraft manufacturers are using the suite for weight reduction and design with composites; modern structural modeling and automated design processes; and stress, mechanism and vulnerability simulation. Software tools in the integrated HyperWorks suite are advancing the ways in which aircraft are designed, accelerating the adoption of advanced materials, such as laminated composites, to meet industry goals of reducing the weight of components and structures for greater fuel efficiency and passenger comfort.

"While composites are a major focal point for HyperWorks and the aviation industry, our product suite offers much more," said Shan Nageswaran, Senior Director, Altair HyperWorks for Aerospace. "From automated meshing to groundbreaking optimization tools and a wide range of easily accessed partner applications, HyperWorks is helping the aerospace industry reach new heights in time efficiency, cost reduction and quality improvement all while meeting the strictest safety and performance requirements."

Design with Composites and Weight Reduction

For composites, HyperMesh® saves significant time with its modeling process. Composites data may be read from the computer-aided design (CAD) model, with ply shapes and parameters comprehended and effortlessly mapped onto elements. Its ply-based modeling approach is more intuitive and efficient than the conventional zone-based approach, matching the physical creation of composites more closely. HyperMesh also has the ability to convert from ply to zone-based modeling for solvers that do not natively support ply-based modeling.

One of the most widely used post-processing tools globally, HyperView® provides layer-based post-processing for composites, yielding results for both individual layers and the aggregation of layers and identifying the maximum contributing layer. The module also includes predefined criteria, including well-known industry standard composite failure theories, and allows for invoking in-house codes for further manipulation of these results.

OptiStruct® is a state-of-the-art solver with non-linear capabilities for ply-based modeling. It offers size optimization for dimensioning of structural components, as well as topology optimization to substantially reduce weight by determining the ideal material distribution. OptiStruct simplifies the

complexity of composite modeling, considering hundreds of load cases simultaneously to recommend the best approach. Its three-phase methodology first employs free-size optimization to find the location for reinforcements based on the ply angle. Then, size optimization indicates the number of plies of a particular orientation that are needed. Finally, shuffling optimization defines which order is optimal for the results previously generated.

Many additional tools of exceptional importance to the aerospace industry can be accessed through the [Altair Partner Alliance](#) (APA), which enables HyperWorks users to call on third-party software as needed at no additional cost. For example, beyond the comprehensive HyperWorks suite itself, nine different software tools for designing and analyzing composites are available through the APA. These partner products add value to the preliminary design of composites, detailed investigations of joints and other areas and micromechanics to investigate on a microscopic level the individual constituents of composites. Many other areas of the aerospace industry are addressed through the APA as well, including electromagnetic analysis, casting simulation, thermal analysis, computational fluid dynamics analysis and durability analysis, among others.

Modern Structural Modeling and Automated Design Processes

HyperMesh offers proficiency in geometry editing and manipulation to automatically organize geometry for meshing and has helped aerospace developers gain major time savings. Its new aerospace profile contains tools targeted especially for the aerospace industry. The HyperView result math module is a tool which enables users to conduct analysis with their results. An average may be calculated between two stress results, for example, or a more sophisticated math function employed from the extensive library included in HyperView to derive a new result from the existing results. Users may also add their own libraries or invoke scripts and programs to be involved in the result math, such as calculating a value which then is used in the formula applied to the results. Results can be mapped back and forth to Excel to take advantage of many stress analysis tools that already exist in spreadsheets. HyperView operates with the most commonly employed solvers and can publish results in PowerPoint with just a few mouse clicks, dramatically cutting the time required for reporting.

Stress, Mechanism and Vulnerability Simulation

OptiStruct is the most advanced optimization-driven structural solver on the market. It is used in optimization centers around the globe, where Altair engineers transfer their expertise to such customers as Airbus and Boeing. Beyond meeting all the requirements for ensuring sound structural engineering, OptiStruct analyzes acoustics, vibrations and comfort in aircraft designs. Many recent features have been added to support non-linear materials and contact analysis.

RADIOSS® is an advanced solver for highly non-linear problems under dynamics loadings, producing solutions in the study of bird-strike simulation, delamination of composites, and multi-failure crises. RADIOSS has been widely used in the aircraft seating industry, and is ideal for highly dynamic situations, including seating and occupant analysis for impact certification requirements.

MotionSolve®, a multi-body dynamics solver, is particularly valuable for the design of aircraft flaps, landing gear and seat reclining mechanisms. It can be applied to other mechanisms as well, enabling users to build highly complex, non-linear systems and study their performance.

HyperStudy® is designed to perform sensitivity analysis to find the most relevant parameters of a structure or design, and supports shape and size optimizations with any solver including Excel.

Altair will showcase these HyperWorks solutions at the [Aircraft Interiors Expo 2014](#) in Hamburg, Germany, [booth 6D60](#). The exhibit will also include Altair's solution for additive manufacturing with 3D-printed aerospace components from [Laser Zentrum Nord](#) and [APWorks](#), which were designed and

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optimized using OptiStruct. In addition, the [3rd Altair Composite Design Seminar](#) will be held at [CFMS](#), Bristol & Bath Science Park, Bristol, United Kingdom on Wednesday the 7th of May, 2014. The agenda may be found [here](#).

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ANSYS® HFSS™ Now Includes Circuit Simulation For More Efficient Electronic System Design and Validation

2 April 2014

ANSYS® HFSS™ users can reduce design time and cost while optimizing complete electronic system performance, thanks to linear circuit simulation included with the latest version of this software. With a more streamlined simulation workflow, engineers can focus on enhancing complete system reliability and signal quality as well as analyzing electromagnetic interference. New HFSS product options for radio frequency (RF) and signal integrity (SI) analyses are also available — making high-frequency (HF) and high-speed electronic device design even more comprehensive.

For many years, engineers have used disparate technologies and extensive lab testing when designing wireless and electronic devices. However, as product speed and densities increased, fast and accurate electromagnetic analysis became essential to predict HF effects that traditional circuit simulation neglected like electrical coupling, electromagnetic interference, and radiation. The latest version of HFSS with circuit simulation addresses these challenges by combining the accuracy of electromagnetic analysis with the speed and capacity of circuit simulation, providing a comprehensive systems-level view of the design.

"It's important for our customers to quickly analyze the full electromagnetic system including circuit level components and high-fidelity electronic models," said Larry Williams, director of product management at ANSYS. "This product upgrade, coupled with our [recent ANSYS SIwave™](#) product announcement, underscores our vision to deliver a seamless end-to-end simulation workflow and a Simulation-Driven Product Development™ approach to product design to our customers."

Combining HFSS with circuit simulation is beneficial for complex RF, microwave, and electronics design because engineering teams can study multiple results in larger systems, expanding the size and scope of designs. Antenna feed and matching networks, microwave circuits, and wireless radio channels, essential to many consumer electronic devices, can be quickly analyzed and optimized. Additionally, the software supports comprehensive SI design by allowing cascading transmission lines, connectors, printed circuit boards, sockets and IC package interconnects. The additional HFSS RF and SI product options provide more advanced circuit simulation analysis with specific capabilities targeting applications in RF/microwave engineering and high-performance electronics design.

The new technical product information is as follows:

- Enhanced ANSYS HFSS now includes linear circuit with integrated ANSYS® Optimetrics™ for full system design to complement its traditional 3-D and recently introduced 3-D layout interfaces and 2.5-D method of moments solver.
- When combined with HFSS, the new ANSYS RF Option delivers a high-performance RF

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simulation flow including harmonic balance circuit simulation for non-linear microwave circuit analysis, filter synthesis and DC, transient, oscillator, load-pull and envelope circuit analysis engines.

- The new ANSYS SI Option for HFSS provides a complete component-to-system simulation solution for signal and power integrity. It includes DC and transient circuit analysis, IBIS-AMI modeling, statistical eye analysis, Synopsys HSPICE simulation support, and the industry breakthrough HFSS 3-D transient finite element simulation engine for time-domain reflectometry (TDR) and visualization of 3-D electromagnetic fields.

The new release is now available for download for current customers via the [ANSYS Customer Portal](#). To learn more about the upgrades in HFSS, please visit: <http://www.ansys.com/Products/Simulation+Technology/Electronics/RF+&+Microwave>

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Artisan 2014 Released: What's new?

3 April 2014

Lightwork Design Ltd. has some major news to share; Artisan 2014 is here. After months of careful planning and development at Artisan HQ, it's brilliant to share this great news with you.

From today users of BricsCAD, ZWCAD+ and ZW3D will all have access to all the fantastic new features that Artisan 2014 has to offer. They're pleased to tell you that they have greatly expanded their reseller network and continue to do so, allowing customers globally easy access to Artisan 2014.

The release of Artisan 2014 marks the start of an adventurous new era for the Artisan product. Artisan 2014 boasts many exciting changes that have been made with the user in mind, so it's even easier and more time efficient; plus, they've completely revamped the interface with a new, clean and modern look. To reflect the great changes made to the software they've completely refreshed and re-launched their branding, website and even created a promotional video.

Neil Whiteley, Product Co-Ordinator for Artisan is glad launch day has arrived, he says; "This is a major update to the Artisan application and we're very excited to release it. The new user interface not only looks great, but is even easier to use, and Artisan 2014 gives you more choice of predefined materials, lighting schemes and backgrounds than ever before."

Read on for in-depth details that explain why Artisan 2014 is the rendering app of choice for CAD designers:

A brand new interface

The icons and graphics have been redesigned and simplified to make the user interface more modern and intuitive for both new and experienced users.

A clear structure for content

In Artisan 2014 there is a clear order to your content making it much easier and quicker to access than ever before. Materials, Finishes and Bumps all have their own tab to make navigation between the preset styles simple and Custom Archives are now represented in their own tab with a streamlined interface for exporting and importing archives.

Simplified functionality

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Artisan now launches even faster from your CAD app and the Snapshot interface is now front and centre so that Snapshots are always ready to use. All lighting and backgrounds are now available for any type of model or scene and the render interface has been redesigned making it simpler to choose the Snapshots you want rendered. It's easier than ever to apply a material within a scene with our new ink dropper and the camera interface has also been simplified, removing the need to drag and drop icons to change camera positions and aspect ratios. We've also added a new immersive 'Full Screen' aspect ratio that lets you make the most of your screen space.

Improved navigation around models

Moving around a model is now more intuitive and as always happens in real-time rendering quality. The Walk Mode has been tuned to allow easier movement and is now not dependent on camera angle. We've also given you easy access to all navigation modes via mouse buttons and modifier keys to minimise the amount of button pressing when navigating a model.

New Faster Rendering and Tone-mapping

Updates to the core rendering software in Artisan allow for faster and higher quality light distribution and large, complex models render several times faster. Even render quality in simple and small models is noticeably improved without a loss in speed.

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CAD Program AViCAD Offers New 3D PDF Export Functionality

31 March 2014

CAD developers at AViCAD.com announced a new way to distribute 3D designs using a new PDF Export utility within their CAD program.

The new [3D PDF export utility](#) allows CAD users to rotate, zoom and render a 3D model directly within a PDF file. Drawing layers and views can also be toggled on and off as needed.

Users can also share project with anyone using the Adobe Acrobat Reader, a free program available from the Adobe web site.

CAD Director, Victor Abela says "This is a really big feature in AViCAD 2014 because we have made the 3D PDF Export completely interactive."

The new utility allows user to add markups to 3D views and track them in a Markups list accessible within the PDF.

Victor adds "Now you can communicate and share your 3D model with anyone. 3D PDF Export offers a innovative way to communicate your ideas without using a CAD engine"

The PDF plugin integrates directly within the AViCAD File pull-down menu and is one of the new features available in a new version called AViCAD 2014.

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Creaform makes 3D Measurement Technologies more Accessible to Educators

27 March 2014

Creaform announced the release of two teaching manuals customized for the needs of educators teaching at universities, colleges and technical schools around the world. The manuals cover theoretical and practical information on 3D measurement technologies and their uses in reverse engineering and quality control, which are crucial for the engineers and designers of tomorrow. A lab guide on how to use Creaform technologies is also included. The [teaching manuals](#) are currently available free of charge on Creaform's web site as of today.

The first manual covers the topic of Reverse Engineering, while the second focuses on applications for Quality Control. These comprehensive teaching manuals help educators to demystify the latest in 3D measurement technologies and describe their applications in a variety of industries.

Moreover, Creaform has created very attractive [educator-specific offers](#) that will make 3D measurement technologies accessible to all types of institutions. These offers include adapted maintenance packages as well as cost-effective plans for multiple systems that may be suitable to equip labs or classrooms.

“These initiatives are yet other concrete examples of how Creaform is committed to training the engineers, industrial designers, and QA specialists of tomorrow,” explained François Leclerc, Product Manager in charge of Education. “In today's hypercompetitive market, the complexity of product parts combined with customers requiring better product quality and faster turnaround times has generated an increased need for 3D scanning technologies and PCMM to be used in manufacturing processes. Professors, educators, and educational institutions need to remain at the forefront of advances in 3D scanning so as to better tailor their curricula for the innovators of tomorrow. Creaform provides the tools they need to bring their courses up to speed and the technologically advanced training level students have come to expect.”

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CONTACT Workspaces: Unicode Release 3.3 available

2 April 2014

CONTACT Software launches the Unicode release of its Workspaces technology. Workspaces integrate heterogeneous CAX tools and help developers to work together more quickly, in a synchronized manner and organized in the way that they choose.

The Workspaces release 3.3 offers product developers further improvements for CAD data management and collaborative working in teams. New functions make it easier to create, edit and transfer documents. Complex relationships are presented even more clearly and core application scenarios are even swifter.

Version 3.3 also relieves users of data management tasks: they now work in a universal master view, which they also use to control data transfer. It is also possible to assign metadata to the documents here that is compliant with the DM/PLM platform's methodology. One key feature is Unicode support for important CAD integrations. Additional CAD interfaces will follow during the next quarter. The new

Workspaces release underscores CONTACT's commitment to providing a universal, open solution for multi-CAD data management and collaborative engineering.

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CST STUDIO SUITE Version 2014 Released

27 March 2014

Computer Simulation Technology (CST) announces the release of the 2014 version of the electromagnetic simulation tool, CST STUDIO SUITE®. The latest edition has been developed to improve the performance of the solvers and increase the capabilities for hybrid simulation without compromising on usability.

CST STUDIO SUITE comprises a range of electromagnetic simulation tools for high frequency, low frequency, charged particle and multiphysics applications, which are all available within a single graphical user interface. The tool is used by engineers and researchers around the world to design, simulate and optimize EM systems.

Improving meshing was a major focus during the development of CST STUDIO SUITE 2014, in order to make the mesh engines more efficient, more robust and more user-friendly. Both the hexahedral and tetrahedral mesh have been improved to reduce the cell count and help to discretize complex or low-quality CAD data.

The simulation of complex systems has also been improved. Field source coupling and multiphysics simulations can be set up automatically using the new System Assembly and Modeling (SAM) wizards. SAM allows different solvers to be combined in a single simulation project and can be used to model complex systems one component at a time.

CST STUDIO SUITE fits into a wide range of CAD and EDA workflows through its import and export tools. These have been upgraded to support more file types and offer greater control of model quality. In addition, the 2014 release introduces version control. Imported CAD files can now be monitored by the software, with changes to the external data automatically reflected in the simulation model.

Alongside these major changes, numerous smaller improvements have been made to both the front-end and back-end of the software in order to make modeling, simulation and results processing faster and more straightforward.

“CST STUDIO SUITE 2014 represents a significant step in the development of our EM simulation tools,” said Bernhard Wagner, Managing Director, CST AG. “We have improved both the power and versatility of our solvers, and we hope that these new features help engineers and researchers in their daily work.”

Shipping of CST STUDIO SUITE 2014 to existing users is expected to be completed by mid-April 2014.

Highlights of CST STUDIO SUITE 2014

- General
 - Improved CAD export
 - Version control for CAD data

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- Sub-volume field monitors
- Automated set-up of multiphysics SAM processes
- Improved results plotting
- Transient solver
 - Improved hexahedral meshing
 - Time-averaged power loss monitor
 - Combined CPU-GPU computing
- TLM solver
 - Preview of PERFECT BOUNDARY APPROXIMATION (PBA)® meshing
- Frequency domain solver
 - Improved tetrahedral meshing
- Integral equation solver
 - Nearfield monitors
- Asymptotic solver
 - RCS hotspot highlight
- EDA
 - Enhanced EDA import tools
 - Decoupling capacitor optimization
- Materials
 - New cable and shield types
 - Time-dependent conductivity materials
 - Partially-saturated ferrites
- Circuit simulation
 - Transient spectrum extraction with AC Task
 - Faster MOR and Transient Task

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Dassault Systèmes Announces General Availability of SOLIDWORKS Mechanical Conceptual
3 April 2014

[Dassault Systèmes](#) today announced that [SOLIDWORKS Mechanical Conceptual](#), the first SOLIDWORKS application on the 3DEXPERIENCE platform, is now available. Already installed in production environments at numerous customer sites, this application delivers significant collaborative benefits through its use of Dassault Systèmes' industry-leading cloud-based capabilities. It can be purchased through SOLIDWORKS' [extensive networks of reseller partners](#).

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[Unveiled at SOLIDWORKS World in January](#), SOLIDWORKS Mechanical Conceptual on the 3DEXPERIENCE platform embraces the new realities of today's world of design in the age of experience: it is more social and conceptual and delivers on the promise of ease-of-collaboration among key contributors.

“Now that the majority of the companies we partner with have embraced cloud technologies, GoEngineer has seen a dramatic increase in requests from our customer's Engineering, Design, and Manufacturing departments for help in leveraging the cloud in their organizations. We are excited to offer them SOLIDWORKS Mechanical Conceptual as a solution that effectively combines the benefits of cloud, integrates the amazing power of social technologies, and addresses the need for some design teams to have preliminary layouts before finalizing their CAD work.” said Brad Hansen, CEO of GoEngineer.

Complementary to the existing and regularly updated version of SOLIDWORKS software, SOLIDWORKS Mechanical Conceptual allows customers to harness the collective intelligence of the entire design team, customers and the supply chain to capture ideas, leverage existing designs, collaborate and quickly collect feedback. Customers have the ability to purchase what best supports their specific conceptual design process:

- **SOLIDWORKS Mechanical Conceptual** – an instinctive powerful 3D modeling environment with online data storage and social collaboration on Dassault Systèmes' 3DEXPERIENCE platform.
- **Collaborative Sharing** – additional access for non-CAD users (executives, design team leaders, project managers and external collaborators) who need to manage data on the cloud and collaborate without constraints, but do not need to create CAD models.
- **Product Design Simulation from SIMULIA** – easy-to-use simulation-based guidance during all phases of product design, including the critical conceptual design stage, to improve product performance and reduce cost.

“SOLIDWORKS Mechanical Conceptual allows us to be competitive in a global marketplace by collaborating with customers in real time from one interface,” said Mike Buchli, engineering manager, Karl W. Schmidt & Associates. “We can work through ideas concurrently while getting instant feedback from the customer and other team members through the community pages. This workflow has allowed us to transform the way we do business to get to the final design quicker and shorten lead times for our customers.”

“This is a big moment for SOLIDWORKS as we make available a key application for design that harnesses the power and cloud capabilities of Dassault Systèmes' 3DEXPERIENCE Platform as well as continues SOLIDWORKS' commitment to ease-of-use,” said Bertrand Sicot, CEO, SOLIDWORKS, Dassault Systèmes. “We have customers who have used this product and have seen tremendous benefits already, and through our burgeoning channel program, we are excited to extend these capabilities to a much broader audience.”

SOLIDWORKS Mechanical Conceptual is currently available through selected resellers. More information is available at: <http://www.solidworks.com/sw/products/3dexperience/solidworks-mechanical-conceptual-overview.htm>

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Delcam's New PowerSHAPE Pro Gives Faster, Easier Re-Engineering from Scanned Data

3 April 2014

The 2014 R2 release of Delcam's PowerSHAPE Pro CAD software includes a range of new functionality for the design of products and tooling. In particular, the new version introduces powerful new tools to make re-engineering complex parts from scanned data faster and easier, plus an option to merge disjointed faces within a solid and so make direct modelling operations more robust.

Full details, including video demonstrations of the new functionality and the option to download an evaluation version, are on www.delcam.tv/ps2014R2

By offering a combination of solid, surface and direct modelling, together with reverse engineering functionality, PowerSHAPE Pro provides the most comprehensive range of design techniques available in a single CAD program. Having all the different technologies in the same package reduces the need to transfer data between multiple programs and so streamlines the whole product development process. At the same time, the combination of quick and easy direct modelling options, together with powerful and flexible surface modelling, makes PowerSHAPE the perfect choice for design for manufacture.

The new automated tools for re-engineering provide quicker and simpler methods for segmenting a mesh of scanned data into primitive regions, such as planes, spheres, cones, cylinders and tori, as well as into revolved or extruded surfaces. Primitive surfaces or solids are then fitted automatically to those regions. The user has control over the fit tolerance used when creating the geometry and over the types of primitive to be identified.

For more complex geometry, or when finer control is needed, mesh segmentation can be carried out manually. The user simply chooses the region where the geometry is to be created and selects the primitive type to be used. PowerSHAPE Pro then creates the surface or solid to the specified tolerance. As each region is converted, it changes colour, making it easy to see the areas of the model that still require work.

Regions with complex, free-form geometry can now be replaced with a single surface. The target area can be selected with a set of easy-to-use options, while a single dialogue box gives control of the fit of the surface to the mesh. The same technique can be used for areas with large amounts of detail, such as logos or textures.

Once the main surfaces have been created, whether by automatic or manual methods, they can be trimmed together to form a single, closed solid automatically. Interactive controls allow dynamic adjustment over how the surfaces are trimmed to each other, while specific faces can be marked so that they are kept or deleted.

All PowerSHAPE Pro models, including those created by reverse engineering, can now be simplified with a new option that merges fragmented faces into a single, continuous surface. This simplification makes subsequent operations, such as adding draft to complex regions of the model, much easier and also improves the operation of many of the direct modelling tools in the software.

Following the introduction of the Smart Feature Manager in PowerSHAPE Pro 2014, these capabilities have been enhanced with the addition of the Smart Feature Selector. The Smart Feature Manager allows users to identify all the features, such as fillets, slots, bosses etc, within a solid in a single operation and so makes the analysis of the imported data easier and faster. The Smart Feature Selector then allows multiple similar features to be found and selected, regardless of where they appear in the model's history tree.

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The software includes a set of filters so that all the features that fulfil specific criteria can be identified within the model. For example, the Smart Feature Selector can find all the holes having the same, specified diameter or those having radii between two values, or it can identify all the fillets with less than 2 mm radius. Similarly, if a single feature is identified, all similar features can be selected with a single click. Creating groups of similar features in this way makes it easier to manage the feature tree.

Once the particular group has been isolated, all the features within it can be suppressed or deleted simultaneously. Groups of features can also be placed on layers or coloured so they can be recognised as a group within any of Delcam's CAM programs, thus simplifying their manufacture.

A new wrap option will also simplify manufacturing. This allows a radial pocket to be created that is suitable for turn-milling with Delcam's FeatureCAM or PartMaker CAM software. An easy-to-use wizard unwraps selected solid faces, together with any features that affect the faces. The unwrapped geometry provides a simple 2D map that allows fast, accurate creation of the wireframe geometry that defines the feature.

Editing of surfaces has been made easier in PowerSHAPE Pro with new 3D dynamic-drag handles that give more precise control when dragging points on curves or surfaces. As well as allowing tangencies and magnitudes to be adjusted, the handles enable points to be dragged along the direction of the surface normal or along a known axis. Clear graphical feedback as the edit is made shows exactly how far a point has been moved and the direction of the movement.

Finally, PowerSHAPE's Intelligent Cursor can now be used on Parasolid models as well as for 2D sketching. For many years, the Intelligent Cursor has both speeded up and simplified geometry creation by automatically highlighting items such as the centre-points of lines and circles, and any potential intersections between lines. Now, it can also be used to snap solids together quickly, simply and accurately, or to create lines tangent to circular faces without the need to create extra wireframe geometry.

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ESI introduces IC.IDO 10

4 April 2014

[ESI Group](#) announces the new version of its immersive Virtual Reality solution, IC.IDO 10, featuring the new module IDO.Illuminate to deliver ultra-realistic lighting conditions. Today, Virtual Reality is used by industrial manufacturers from various sectors for collaborative exploration and resolution of design challenges throughout product engineering, manufacturing and aftersales. The new [IC.IDO 10](#) elevates the fidelity of decision-making through its unprecedented immersive experience in terms of realistic visualization and product behavior.

Industrial manufacturers seek innovative ways to increase their productivity and reduce potential design issues for large, complex or expensive products. They have adopted IC.IDO to perform collaborative and immersive design reviews, to evaluate and optimize assembly & disassembly sequences, to verify resources and tooling for manufacture and maintenance, and to support documentation and training.

Recently, automotive manufacturer Renault implemented ESI's Virtual Reality solution to speed up the quality and efficiency of their design processes. Renaud Deligny, Specialist for 3D Engineering for Product and Process Design at Renault, sums up his goals: "We're excited about this latest release and

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expect a lot from IC.IDO 10 in terms of physics simulation for flexibles and kinematic chains, manikin manipulation, data flow and workflow organization. Our objective, with the help of IC.IDO, is to increase the quality and efficiency of our assembly validations, and to decrease our development times.”

Unlike other Virtual Reality solutions, IC.IDO incorporates real-time physics simulation, reproducing realistically the behavior of virtual objects, such as cables, hoses and kinematic chains. This unique capability represents a definite technical advantage to perform reliable design review, and eliminate design errors from the very early stages of the design process.

IC.IDO users also benefit from an immersive user interface that lets users intuitively engage with their virtual product. The new version brings significant enhancements to this user interface, offering improved usability, agility and optimized workflows. Users can now build and manage libraries of reusable elements that can be easily shared between teams.

IC.IDO 10's new module, IDO.Illuminate, delivers a breakthrough in immersive Virtual Reality. For the first time users are able to experience their scenarios under realistic lighting conditions, without sacrificing interactivity or reducing available features. Complex 3D environments can be created, edited and activated to directly appreciate the visual appearance, showing operating conditions more realistically, to better assess the manufacturability or serviceability of a product - for example, to assess if lightning conditions are sufficient in order to ensure safe and efficient operations. Rendering performance is optimized during runtime so users can benefit from the best possible balance between visual quality and real-time interactivity. Not only does this module bring increased productivity, it also delivers a compelling experience for customer presentations by showing the impact of lightning conditions on usability or perceived quality.

Also part of this release, IDO.Process is a new module that allows for the efficient, interactive and collaborative planning and validation of an assembly process. IDO.Process introduces a new paradigm within IC.IDO to flexibly orchestrate and manipulate processes defined by distinct product and resource configurations. In combination with IC.IDO's immersive experience, IDO.Process addresses the demand of industrial engineers and service managers for an agile and robust planning and validation environment of their respective processes.

Today, IC.IDO is in use by numerous automotive manufacturers, including Chrysler, Daimler, Fiat, Ford, Honda, Hyundai, JLR and Volkswagen. Counted among IC.IDO users, we can also find manufacturers in the aerospace sector, including Airbus, Boeing and Lockheed Martin; machinery and tooling manufacturers, including AP&T, Bausch & Stroebel, Gabler, Herrenknecht, MTU or Oerlikon Neumag; commercial vehicles and transportation, including Caterpillar, John Deere and Bombardier; and leading energy companies including Siemens and Hitachi.

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IGC Releases Brava! Enterprise 7.2 for EMC Documentum D2 4.2

1 April 2014

[Informative Graphics Corporation \(IGC™\)](#), an EMC Technology Partner and a leader in viewing, collaboration and redaction technology, announces Brava!® Enterprise 7.2 for EMC Documentum D2 4.2. In addition to compatibility with the latest version of D2, this upgrade offers new features and usability enhancements:

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- The cross-platform Brava HTML5 client now offers vector viewing for crisp views at any zoom level plus the ability to set CAD layer visibility and view object attributes.
- The new Brava 3D ActiveX client displays 3D models. Users can measure, locate and identify parts, access part and subassembly info, view multi-plane cutaways and cross sections, and explode assemblies.
- Brava users can now sign documents electronically. Add an electronic signature, initials or a professional seal to a document with Brava, then create a PDF of the signed document.
- Checkview, new in version 7.2, streamlines repetitive form reviews, helps to improve accuracy and ensures no areas are missed. Use Checkview to flag form areas requiring review. Reviewers step through each area and must approve or reject each area to move on to the next.
- Enhanced text comparison features help users find differences more quickly by collapsing large areas of unchanged text and highlighting only the lines with changes. Users can change the highlight colors used to indicate differences to accommodate users with color-blindness.
- Publish files to PDF/E for engineering and technical documentation, and to Fast Web View, a format that restructures PDF documents for page-at-a-time downloading from web servers.

"Brava offers the first vector-based HTML5 viewer," said IGC CEO Gary Heath. "Platform-independent, the Brava HTML client provides users on PCs, Macs and even the Apple iPad crisp, readable content views at tight zoom levels. We're pleased to bring HTML5 vector viewing to our EMC Documentum D2 integration."

Learn more about IGC's integrations to EMC solutions at www.infograph.com/EMC.

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Nemetschek Vectorworks Releases Localized Version of Vectorworks 2014 in China

1 April 2014

Nemetschek Vectorworks, Inc. is pleased to announce the availability of the Chinese-language version of the Vectorworks® 2014 line of design software, including: Vectorworks Designer, Architect, Landmark, Spotlight, Fundamentals and Renderworks®.

Mad Macs, the Vectorworks distributor in China, will host launch events in Shanghai on April 9, Beijing on April 16 and Guangzhou on April 23 to demonstrate the software's new features and capabilities and how the program supports BIM workflows. Attendees will have the opportunity to win a free license of Vectorworks software and other prizes. In addition to these live events, Mad Macs will offer an online webinar on April 29, 2014.

"It's important for us to meet with our customers at in-person events like these, and as Vectorworks 2014 has been rolled out around the world, we've been pleased to receive strong, positive feedback from our users," said Stewart Rom, chief marketing officer at Nemetschek Vectorworks, Inc. "Some of the most popular enhancements to this version have been the new Fast Interactive Display, direct referencing of DWG files and the new publish command."

Visit <http://www.vectorworks.cn/2014> for more information or to register for the Vectorworks 2014 Chinese launch events.

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The Vectorworks 2014 software contains more than 130 improvements, including new BIM tools for architects, increased site design capabilities for landscape architects and designers, and enhancements to lighting devices, documentation and graphic controls for entertainment designers. Visit <http://www.vectorworks.net/2014> to learn more about all the new features in Vectorworks 2014 software.

The release of the Chinese-language version of Vectorworks 2014 continues the global rollout of the software. The English version was launched on Sept. 17, 2013; several localized versions were released across Europe in October and November of 2013; the Portuguese version was released in Brazil on Oct. 31, 2013; the Spanish version was released on Nov. 26, 2013; and the Japanese version was released on Jan. 14, 2014.

For more information about the Chinese localized version of Vectorworks software, visit www.vectorworks.cn. Please visit www.vectorworks.net/international to find a local distributor.

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PDF3D Make 3D PDF Reporting Possible for COMSOL Users with PV+

2 April 2014

PDF3D have been busy this spring with yet another feature development. This time, the 3D developers have enhanced their ParaView derived product PV+ which now enables COMSOL users to easily create interactive 3D reports in Adobe's PDF.

COMSOL, which was released by Comsol Multiphysics in 1998, allows professionals who work with structural mechanics, electromagnetics, fluid flow, heat transfer, MEMS and acoustics to visually manage their workflow using COMSOL Multiphysics analysis software.

COMSOL users are currently able to create screen shots and movie files that can be shared with others however, to get real 3D interaction in a report, the pathways to do this are rare, which is where PDF3D's PV+ comes in.

"We've developed two main pathways for COMSOL Multiphysics to enable 3D PDF Report generation," explained Ian Curington of PDF3D, "the first of these uses a customized and extended version of ParaView which contains a COMSOL format loader and a large library of 3D data visualization methods that creates 3D publishing directly, without needing any other intermediate software."

PDF3D also offers a fast workflow from COMSOL non-displaced meshes showing analysis results. It works with the company's immensely popular ReportGen software, which can also load COMSOL Multiphysics models and apply a colour contour to a surface mesh before generating a 3D PDF report at the touch of a button.

"Once the PDF is exported, it can be reviewed by anyone with the free Adobe Reader, without needing access to either PV+ or COMSOL. This easy sharing of critical and complex data is the driving force behind all of our developments at PDF3D this year," added Mr Curington.

Users can see how easy it is to create an interactive 3D PDF report from COMSOL using PDF3D's PV+ in a video tutorial. More information is available at visit <http://www.pdf3d.com>

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SAP Develops New Strategy for Authoring Tool Integration

1 April 2014

In an effort to help discrete manufacturers increase efficiency in engineering and manufacturing, [SAP AG](#) today announced its new plan for authoring tool integration, including a strategy to simplify and expand its offering by integrating authoring tools into the SAP® Product Lifecycle Management application. The SAP® Engineering Control Center integration tool is planned to help companies deliver innovative products and services in a shorter time to market and aims to support a new way of developing products. This ties in with the broader aim of “idea to performance,” a holistic business approach to managing the entire life cycle of a product, from design to service.

The pace of technological advance is constantly increasing and puts pressure on manufacturers to be more innovative. Products are becoming more and more complex and are often a combination of mechanics, electronics and software. Product data is stored in multiple repositories, making it difficult for engineers to keep track of product data and to ensure data consistency. SAP’s strategy aims to help increase efficiency in engineering and manufacturing through a new comprehensive and flexible integration platform for all authoring tools. SAP Engineering Control Center is intended to provide a 360-degree product view, including mechanics, electronics, software and simulation, offering total transparency across engineering disciplines and promoting visibility of new product introduction process criticality. It is also planned to integrate a heterogeneous authoring tool landscape into SAP Product Lifecycle Management for fewer interfaces and consequently a reduction in maintenance costs.

“Using this new integration tool and integrating data from several authoring tools directly into the product development process is envisioned to enable companies to benefit from faster innovation cycles and simplified R&D processes and handover to manufacturing,” said Nils Herzberg, senior vice president and global head of Discrete Industries, SAP AG. “With this planned offering, manufacturing companies shall be able to generate consistent product designs and achieve higher product quality. The tool integration framework is intended to help companies to create a holistic product description, ensure data consistency and reduce operating of their IT landscape.”

The integration tool is planned as part of SAP’s broader effort to strengthen relationships with its integration partner ecosystem, enabling partners to address even the most complex customer challenges. SAP Engineering Control Center is planned to leverage the experience of DSC Software AG, a long-established development partner of SAP, while other CAD integration partners, including CENIT, CIDEON and .riess engineering, intend to leverage this platform to provide new interfaces to leading authoring tools.

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tetra4D Releases 3D PDF Converter Version 4.1

1 April 2014

tetra4D, a division of Tech Soft 3D, announces the latest release of 3D PDF Converter, a powerful solution for creating 3D-based documents to support Model Based Definition (MBD). Customers can

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immediately take advantage of the most significant upgrade to the industry-leading software for democratizing 3D data yet delivered.

This release is the result of many developer-years spent incorporating several hundred changes including new features, customer requests, and updated support for various 3D formats. New support has been added for Autodesk® Inventor® 2014, CATIA V5-6R2013 (R23), Rhino 4.5, Solid Edge ST6, SolidWorks 2014, and NX 9.0, among others. More details can be found in the Release Notes available on www.tetra4d.com

“This release of 3D PDF Converter has significant advantages for anyone who needs to adhere to ASME Y14.41 and other PMI standards,” says Bryan R. Fischer, President of Advanced Dimensional Management LLC and MBD360 LLC. “It will now be possible for organizations of any size to leverage 3D PDF for dynamic 3D annotation with visual feedback, without the need for traditional 2D drawings. This significantly reduces costs and complexity, and increases the communication index of the dataset. The dataset provides information in a manner that is an order of magnitude easier to understand.”

“We are very pleased to announce this critical milestone for delivering on the commitment we have made to our customers to continue to lead the market with cost-effective solutions for deployment of 3D PDF-enabled workflows,” said Dave Opsahl, tetra4D President and Vice President of Corporate Development for Tech Soft 3D, tetra4D’s parent company. “With the widespread adoption we are now seeing across industries throughout their supply chains, we expect this release will accelerate 3D PDF use and adoption significantly.”

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The New Version of CaniVIZ 3D Pro CAD Viewer is Now Available for Macs and Windows PCs with Many New CAD File Readers

31 March 2014

Andéor, SAS announces the immediate availability of CaniVIZ 3D Pro 1.1.10, a CAD file viewer with many new CAD file formats, in the Mac Apple Store and the CaniVIZ Store.

CaniVIZ is a powerful 3D viewer that is able to display million of polygons in simple devices. It includes smart tools such as the interactive cut plan and offers additional functionalities. In addition, a free online workshop is available for free, allowing everybody to put and display 3D files online.

The read CAD file formats are: Acis, Cadds, Catia (v4, v5, v6), Cercon, Cerec, CGR, DCM, DXF, DWG, Colored IGES, Inventor, JT, Lava3M, Parasolid, ProCera, ProE / Creo, Solidedge, Solidworks, Colored Step, Unigraphics, VDA. They are available with optional purchases.

The free CAD reader included in CaniVIZ Pro, Light and free are: 3D Studio, Monochromic IGES, Monochromic Step, STL and WaveFront.

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Viewpoint Construction Software's Latest Release Enhances Business Processes and User Experience

4 April 2014

[Viewpoint Construction Software](#)® announced the availability of the latest version of its Viewpoint V6 Software®, which includes updates to the Accounting, Business Intelligence, Project Management and Service Management modules. In addition, Construction Imaging and Mobile Field Manager, Viewpoint’s point solutions that integrate with V6 as well as other construction specific offerings on the market, have also been updated to offer improved integration to V6, as well as numerous customer requested enhancements.

“Before we even begin to develop changes to our products, we conduct extensive research and gather feedback from customers through focus groups, suggestions from current customers and many other touch points along the way, with the goal of understanding how our software can provide even more value,” Rob Humphreys, Vice President of Product Management at Viewpoint noted. “By incorporating this valued input, this newest release continues to focus on what our customers have told us they want – an enhanced user experience with new features and functionality to help them complete projects faster and more efficiently.”

Enhancements lead to Easier Access to Key Information

Additional updates to the latest release also include a new general ledger trial balance drill-down capability providing quicker access to information, updated business intelligence dashboard reports to drive better decision making and with Mobile Field Manager, users have the ability to document and sync weather conditions on the job to the V6 project management daily log. The overall usability of cost projections has also been enhanced, allowing project managers an easier way to make corrections to change orders, subcontracts and purchase orders right from the Project Management module. The increased integration between Construction Imaging and V6 accounts payable provides automatic validation through processing routines to identify documents and record and alert those with errors.

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Zuken Strengthens its Product-Centric Design Solution

1 April 2014

Zuken’s CR-8000 continues to lead the way with next-generation tools capable of creating today’s and tomorrow’s complex product designs. Design Gateway and Design Force – the core of Zuken’s CR-8000 2D/3D multi-PCB and IC packaging design solution (which was introduced in 2011) – contain enhancements that include significant new placement and routing functionality for both conventional and high-speed designs, 3D mechanical enclosure clearance checking, and interfaces to third party simulation tools.

“In the development of the world’s thinnest and lightest 20-inch large-screen 4K tablet, CR-8000 Design Force’s system-level SI and thermal analysis effectively reduced the number of design spins during the project. Due to the success of this project, we will make more efforts with Zuken to develop our next generation 4K tablet using CR-8000 Design Force.” - Mr. Kiyoshi Nakanishi, 4K Tablet development manager, Panasonic Corporation

Enhanced placement and routing

Placement and routing templates enable designers who work with bus routing or flex circuits to follow either reference routing or the board outline, then save the route as a template for parallel routes within

the same design. For high-speed designs, topology templates can now be created based on reference designs that include guidelines for track lengths, widths and spacing – greatly reducing the effort to configure and manage constraints, especially with differential pair routing.

3D mechanical enclosure clearance verification

Multi-board design, a unique feature of CR-8000 permitting the coordinated design of multiple boards in one product, now has the ability to check 3D clearance between boards directly within the PCB design environment. It also reports and cross-probes to any clearance violations between objects including board outlines, components, nets, and mechanical data.

Creation of intelligent PDF drawings that include bookmarks for components, and intelligent text for items such as reference designators, is now available for manufacturing reviews and document sharing.

Interface with third party simulation tools

- Design Force 2014 has increased support for a number of third party simulation and analysis tools. Users may now:
- Import conductor figures generated in AWR Microwave Office into Design Force using the new Import IFF function.
- Import data on the optimization of decoupling capacitors from ANSYS PI Advisor into Design Force using the new Import PI Advisor function.
- Exchange bidirectional information with Agilent ADS using the new ADS Board Link file format.

For more information see www.zuken.com/cr-8000

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