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CIMdata News

Agenda and Speakers Announced for CIMdata's PLM Road Map™ 2014

4 September 2014

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces the agenda, including presentation titles, abstracts, and speakers, for PLM Road Map™ 2014. The event will be held on October 2nd at The Inn at St. John's, located in Plymouth, Michigan.

PLM Road Map is the must-attend event for industry executives and PLM practitioners globally—providing independent education and a collaborative networking environment where ideas, trends, experiences, and relationships critical to the industry germinate and take root. The theme for this year's event is PLM-enabled continuous product development and delivery for the automotive and transportation industry and supply chain.

Speaker and presentation highlights include:

- Anders Carlsson from Volvo Car Corporation, *The Volvo Journey*
- Dr. Nick Bell from General Motors, *Model-Based Systems Engineering and PLM*
- John Mannisto from Whirlpool Corporation, *New Age Collaboration and Design*
- Dan Mekker from Siemens Energy, *Global Product Development and the CAE Challenge*
- Greg Schroeder from The Center for Automotive Research, *Advanced Information Technology Solutions: An Engine of Innovation*
- Rolf Hüsemann from GETRAG Ford, *A Flexible Approach to PLM*
- Lou Young, Jr. from Linear Mold and Engineering, *Additive Manufacturing and Conformal Cooling*

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- Peter Bilello from CIMdata, *The “platformization” of PLM*

In addition, PLM Road Map attendees will have the opportunity to listen to a series of compelling PLM Vignettes™ featuring short thought leadership pieces from some of the industry’s leading solution and service providers.

The PLM Vignettes series, which is new for 2014, will feature:

- Accenture presenting *Digital Industry 4.0 – Digitize, Industrialize, and Optimize in Automotive and Transportation*
- Aras presenting *Integrated Requirements Management for Systems Engineering*
- Geometric presenting *OEM-to-OEM Collaboration for Global Engineering*
- PTC presenting *Why Driving in Circles is the Right and Best Future for PLM*

PLM Vignettes will also be presented by Autodesk and Siemens PLM Software.

For more information visit <http://www.cimdata.com/en/education/plm-conferences/plm-road-map-2014>

About CIMdata

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

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

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CIMdata PLM Industry Summary

CIMdata Featured in Webinar on the Internet of Things, Industry 4.0, and the Rise of Multi-Domain Continuous Delivery

4 September 2014

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces that Stan Przybylinski, Vice President of Research, will take part in a webinar sponsored by Electric Cloud on the Internet of Things, Industry 4.0, and the Rise of Multi-Domain Continuous Delivery. With digitalization disrupting business across all industry segments, product development leaders now say that software accounts for 80% of product innovation and value. To differentiate and accelerate the introduction of new products to the market, organizations are now faced with the need to tightly integrate software with all other engineering domains in the product development lifecycle.

"Products in many segments rely on software to deliver more and more of their customer value. Industrial companies must adapt, adding software development, delivery and on-going management to their other product development skills," says Przybylinski. "Both industrial companies and their solution and service providers have a vested interest in getting this right. During this Webcast, executives from CIMdata, Siemens PLM Software, and Electric Cloud will discuss what companies can do to address this vital requirement." Stan Przybylinski has over 30 years of experience in the development of business-enabling IT solutions for research, engineering, and manufacturing organizations worldwide. He has worked in R&D, marketing, and communications with both Fortune 100 companies and small organizations.

Join executives and thought leaders from CIMdata, Siemens PLM, and Electric Cloud to learn:

- Why product digitalization is becoming a reality – and a necessity
- How digitalization changes the product development landscape
- How Multi-Domain Continuous Delivery helps accelerate innovation and product delivery

The webinar will take place on Thursday, September 18th at 11:00 a.m. PST. To learn more and to register, visit: <http://electric-cloud.com/resources/webinars/iot-industry-4-0-rise-multi-domain-continuous-delivery/>.

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Product Lifecycle Management Certificate Program set to take place in Ann Arbor, Michigan in December

3 September 2014

CIMdata, Inc., the leading global PLM strategic consulting and research firm will bring its highly acclaimed Product Lifecycle Management (PLM) Certificate Program to Ann Arbor, Michigan from December 1-5. The program is recognized as the PLM industry's most comprehensive solution-agnostic education offering.

The three- or five-day program prepares PLM professionals to successfully address the challenges commonly faced in PLM strategy development and implementation. The assessment-based certificate program includes a personalized classroom experience, individual and team-based exercises, and individual evaluations of achievement. The program is facilitated by a team of CIMdata experts. Upon successful completion of the program, participants receive a CIMdata PLM Certificate and become a member of CIMdata's global PLM Leadership community.

“We look forward to bringing our PLM certificate class to Ann Arbor, Michigan. This location has proven to be significant for the automotive industry as well as being where CIMdata is based. From this location we have supported many industrial clients in many industries with state-of-the art PLM education. We look forward to continuing to provide the industry's most comprehensive offering of PLM training and education,” said James McKinney, CIMdata's PLM Leadership Practice Manager.

The program is built on CIMdata's over 30 years of extensive experience guiding industrial companies in successfully defining and implementing best-in-class PLM strategies and tactics. The program is available to industrial companies that are considering or are already implementing PLM, and to PLM solution and service providers. For more information on CIMdata's PLM Certificate Program visit our website at <http://www.cimdata.com/en/education/plm-certificate-program>.

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Update: Autodesk's Cloud-Enabled Strategy for Simulation & Analysis: a CIMdata Commentary

4 September 2014

Key takeaways:

- *Autodesk continues to aggressively invest in Simulation & Analysis technologies that can be used both stand-alone and integrated with 3D CAD*
- *These simulation technologies will now be available to customers on the engineering desktop as well as via Autodesk's 360 Cloud deployment model (see previous CIMdata Commentary on Simulation 360 in September, 2012)*
- *Autodesk's recent acquisition of NEi Software and NEi Nastran is the next step in enabling more advanced structural simulation capabilities based on the widely used Nastran FEA solver format for structural analysis*
- *The ultimate goal and the challenge for Autodesk will be delivering robust simulation technology not only to the traditional analysis specialists, but making simulation best practices available to and readily consumable by a much broader base of engineers and designers in the overall design market*

Autodesk's Design, Lifecycle, and Simulation (DLS) team, led by industry veteran Buzz Kross, recently hosted a one-day industry analyst event at their facilities in Lake Oswego, Oregon to update the community on their evolving strategy for the Simulation and Analysis market and on their specific plans for the NEi Nastran technology in the context of that product strategy.

The Autodesk DLS products team has grown substantially over the past decade with numerous S&A acquisitions including ALGOR, CFDesign, Moldflow, Firehole Composites, and most recently, NEi Software. Autodesk also continues to aggressively invest in global sales and marketing resources focused on mechanical simulation and analysis for the discrete product manufacturing sector as well as the architecture, engineering, and construction (AEC) market segment.

Autodesk's DLS business as a whole is focused on several major paradigm-shifting industry trends and the role that simulation and analysis can play in addressing those emerging market needs and opportunities in the coming years.

The market trends highlighted as business drivers for Autodesk's DLS group are:

- Smart machines requiring the need for systems engineering to integrate across the physical hardware, software, controls, and sensors domains
- Increased use of advanced materials such as composites to minimize weight and cost across a much wider spectrum of industry segments and applications than is the case today
- Widespread use of additive manufacturing (e.g., 3D printing) technologies

The corresponding focus of Autodesk's near-term simulation product development efforts are in the areas of:

- Structural mechanics
- Flow and thermal
- Molding processes
- Structural architecture

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- Composite materials

The major emerging trends in simulation and analysis that Autodesk sees cutting across all of these areas are:

- Increasing simulation model size and complexity
- The need for and availability of ever-increasing computing capacity
- “Intuitive” multi-physics capabilities for a broad spectrum of engineers

NEi Nastran was acquired to be a foundation technology to enable the Autodesk strategy of “Design-Visualize-Simulate” and to specifically address emerging trends in the areas of structural mechanics and composite materials. NEi Nastran provides a wide range of structural and thermal analysis capabilities widely used across many industry applications including:

- Linear and nonlinear statics, buckling, pre-stress static, and normal modes
- Dynamics: Normal modes, linear & nonlinear transient response, frequency response, random response, impact analysis, and drop test
- Thermal: Thermal stress, linear & nonlinear steady-state heat transfer, and nonlinear transient heat transfer
- Materials: Advanced nonlinear and hyperelastic materials; composites
- Assembly modeling with contact

Of particular importance, Autodesk believes that NEi Nastran possesses unique capabilities in the areas of system-level analysis for large assemblies with parts in contact, and for robust nonlinear analysis, especially in predicting material strength and failure of composite materials when used in conjunction with the technology and expertise acquired with Firehole Composites.

In keeping with Autodesk’s strategy of delivering open, multi-CAE solutions as well as multi-CAD integrated solutions, Autodesk Nastran (a re-branding of NEi Nastran) will continue to be available as a stand-alone FEA solver useable with other leading finite element pre- and post-processing tools (e.g., Hypermesh, FEMAP, and Patran). It may also be used from within the Autodesk Inventor and SolidWorks CAD environments, in the form of Autodesk Nastran-in-CAD. Access from within other leading 3D CAD environments is also likely in the future.

The legacy Autodesk Simulation Mechanical offering uses the previously acquired ALGOR structural finite element solver. Autodesk customers who have purchased that tool will be now be able to choose between using the ALGOR or Nastran solvers at no additional cost. This is a very attractive feature for Autodesk users that demonstrates Autodesk’s commitment to providing a flexible and cost effective environment for their small to medium sized customers as well as for larger enterprises.

Autodesk’s new Simulation Flex licensing is the next generation of Sim360 which allows users to solve Nastran models on an engineering desktop, workstation, or in the cloud, taking advantage of HPC resources using “Cloud credits.” With an annual subscription license for Simulation Flex, engineers can run an unlimited number of analyses on the desktop yet still have direct access to the cloud for overflow capacity or for solving extremely large structural analyses that cannot be run on their desktop platforms.

Overall, this analyst event was an excellent and timely strategic update by the Autodesk DLS products team given the recent acquisition of NEi Software. The logic behind the acquisition was not entirely obvious to many in the traditional CAE industry and Autodesk was relatively silent on announcing any details behind the acquisition, which actually finalized during May 2014. But based on the product

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strategy presentations and open discussions at this event, it is clear that the NEi Software team located in Orange County, California has already become an integral part of the Autodesk DLS team.

The Autodesk and NEi staff have done a significant level of product integration work in the four short months since the deal closed; the logic behind the acquisition of NEi Software now becomes much clearer given the overall Autodesk DLS strategy and where they intend to compete with their new mechanical and structural performance simulation offerings powered by Autodesk Nastran.

From a very small base a few years ago, Autodesk continues to make significant strides with their simulation product offerings, and their innovative cloud-based delivery options are particularly attractive for small- to medium-size businesses (SMBs) that comprise a large percentage of Autodesk's current customer base in the mechanical design and structural engineering markets.

CIMdata looks forward to monitoring the market's acceptance and adoption of Autodesk's S&A products as the Autodesk DLS team continues to build out their simulation portfolio via acquisitions as well as through organic investment in product R&D.

Autodesk contends: "The promise of simulation is to make better decisions sooner." If they are truly able to deliver products that achieve that promised customer benefit, then Autodesk could indeed become a much more significant driving factor in the long-awaited "democratization of simulation."

About CIMdata

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Acquisitions

3D Systems Acquires LayerWise

3 September 2014

[3D Systems](#) announced today that it has acquired Belgium-based LayerWise, a provider of advanced direct metal 3D printing and manufacturing services. LayerWise delivers quick-turn, 3D-printed metal parts, manufactured on its own proprietary line of direct metal 3D printers, for aerospace, high-precision equipment and medical and dental customers. The transaction is expected to be immediately accretive to 3DS' cash generation. The terms of the transaction were not disclosed.

"We are delighted to integrate our proprietary direct metal technology and processes into 3D Systems' leading portfolio of products and services," said Jonas Van Vaerenbergh, one of LayerWise's founders. "With its culture of continuous innovation dating back to its founder Chuck Hull, the inventor of the first 3D printing technology, and its commitment to advancing direct metal 3D technology and medical device services, 3DS is the perfect fit for our company and strengthens our combined growth potential."

Since 2008, LayerWise has designed and built its own direct metal 3D printers. Its proprietary powder-to-solid metal printers can produce functional metal parts at convincing production scale. LayerWise's direct metal printers deliver relative part density of up to 99.98% and match conventional metals mechanical properties, at substantial unit weight reduction. These capabilities have led to rapid adoption of LayerWise manufacturing services by medical device, transportation and precision equipment customers for whom weight-reduction, strength and accuracy are paramount.

“The addition of LayerWise, with its award-winning direct metal printing technology, automated manufacturing processes at convincing scale and leading medical devices services, extends our first mover advantage in these high-growth areas substantially, to the immediate benefit of our aerospace, automotive and medical device customers,” said Avi Reichental, President and CEO, 3DS.

LayerWise will operate under the continued leadership of co-founders Jonas Van Vaerenbergh and Peter Mercelis and immediately pursue new projects in its high-end target markets, taking full advantage of the global market leadership of 3DS by leveraging the combined resources and expertise to advance the entire portfolio further and faster.

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Company News

1 Million PLM User Scalability Testing Conducted on Aras with Microsoft SQL Server 2014

3 September 2014

Aras[®] announced the results of independent testing conducted by Logic 20/20 for the scalability of Aras Innovator 10 running Microsoft SQL Server 2014 Enterprise Edition. Results validate optimal performance and resource utilization for 1,000,000 named users with 250,000 concurrent users - the largest testing conducted to date in the enterprise PLM industry.

Aras Innovator 10 Running on SQL Server 2014 Scalability Benchmark Methodology and Performance Results report available at www.aras.com/scalability

“Testing validates that Aras Innovator 10 on SQL Server 2014 Enterprise Edition can handle an extremely high number of concurrent users and data when running on standard server configurations,” said Anders Westby, Director of Cloud Services and Testing at Logic 20/20. “During testing the average response times were very fast, and no hardware bottlenecks were observed during any of the tests. Under the heaviest load average CPU utilization was generally below 10 percent and was never higher than 20 percent.”

“SQL Server 2014 delivers a new level of scalability and performance for mission-critical applications such as Aras Innovator for PLM whether running in the data center or the Cloud,” said Simon Floyd, Director of Product Lifecycle Management Solutions at Microsoft. “Aras Innovator with SQL Server 2014 provides global enterprises the opportunity to confidently grow their PLM footprint internally and externally to supply chain partners.”

Tests were conducted on Aras Innovator 10 running SQL Server 2014 Enterprise Edition with standard Microsoft recommended settings and best practices. The HP ProLiant DL980G7 server was tested with two HP ioDrive2 Duo IO accelerators. Testing occurred with 1,000,000 named users at 125,000,

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150,000, 200,000 and 250,000 concurrent user loads with real-world scenarios and data structures to simulate actual usage.

Logic 20/20's Performance Conclusions

- Aras Innovator 10 and SQL Server 2014 Enterprise Edition running on standard HP server configurations showed strong performance and excellent resource utilization across all tests.
- As expected in an online transaction processing workload like Aras Innovator 10, the database performance of SQL Server 2014 Enterprise Edition at scale was crucial.
- The scalability enhancements in SQL Server 2014 Enterprise Edition enabled Aras Innovator 10 to scale to 1,000,000 named users and 250,000 concurrent users with exceptionally fast and consistent performance.
- Average response times were excellent across the different user loads from 125,000 to 250,000 concurrent users.
- During testing average CPU utilization was consistently below 10 percent and was never higher than 20 percent.
- Benchmark testing results validate that Aras Innovator 10 running on SQL Server 2014 Enterprise Edition scales nearly linearly with hardware upgrades and is architected for very high numbers of concurrent users.
- The performance of Aras Innovator 10 is not constrained by its architecture. The design puts the burden of work on the hardware, so it can be scaled-up and scaled-out with server hardware.

The Aras architecture supports scale-out on the file system and web servers with scale-up on the database by moving non-transactional data to the scale-out servers, allowing Aras Innovator 10 to handle very large levels of throughput by using frequent, short database transactions. Optimized exclusively for Microsoft SQL Server, Aras Innovator 10 is able to achieve this new level of PLM scalability because of Aras's unique technology innovation, a model-based service oriented architecture (model-based SOA). The model-based SOA is designed for scalability, flexibility and extensibility while delivering consistent performance at scale whether running applications out-of-the-box or highly customized.

“The world's largest manufacturers are telling us that they need better PLM performance than they have been able to obtain from the other PLM systems,” said Peter Schroer, President of Aras. “With these tests we've publicly demonstrated a new high water mark in PLM scalability that the legacy software architectures have never been able to achieve.”

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Autodesk selects Delcam's FeatureCAM for Pier 9 Workshop

4 September 2014

Autodesk has added Delcam's FeatureCAM feature-based CAM software for its Autodesk Workshop at Pier 9 in San Francisco. FeatureCAM will be used to program all the CNC equipment at the facility, including a DMS five-axis router and a Mori Seiki mill-turn machine.

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To see more about how Autodesk is using FeatureCAM, please go to <http://www.delcam.tv/pier79>

Autodesk opened its Pier 9 facility in September 2013 to support the company's vision of helping everyone to imagine, design and create a better world. The 27,000 square foot site is located a short walk from the company's San Francisco headquarters.

"Pier 9 is a very interesting facility because it has traditional Autodesk software alongside an incredible workshop," explained Gonzalo Martinez, Director of Strategic Research at Autodesk. "It has a whole floor for additive manufacturing, plus we have a metal shop and a wood shop on the site. The best part of the whole concept is that it lets people experiment here. They have access to the tools that we provide – both the software and the hardware – to see what they can do."

Jeremy Malan, Applications Engineer at Delcam, was responsible for installing FeatureCAM at Pier 9. "It's not every day that you can come out to a machine shop overlooking the bay, especially such a great facility," he remembered.

"Pier 9 does have a lot of people that are learning machining for the first time so it's really helpful that FeatureCAM is one of the easiest-to-learn software programs out there," he added. "With FeatureCAM, even new users are able to identify very quickly the kind of feature that they are trying to make and how they are going to do that on the machine."

"I love what FeatureCAM does because, at Autodesk, we've always been very good with design tools, and visualisation and simulation tools, but we were not really connected to what I'd call fabrication," said Mr. Martinez. "Having access to FeatureCAM is really beneficial because it is able to read files from any of our design software and is able to output toolpaths ready to cut parts on any of our machining equipment."

"I really looked forward to testing FeatureCAM on our Mori-Seiki machine, which is our most complex being a mill-turn with two turrets and five-axis capabilities," he continued. "There are always multiple axes moving around but, with FeatureCAM, I can make sure that nothing is colliding and that the machine is working correctly."

"The support that I have received from the Delcam team has been an A+ from day one. I'm so pleased that we have Delcam; not only the technology, but the people as well. The people are so extremely knowledgeable about the industry that it makes this journey beautiful."

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BIMobject® Establishes Subsidiary in Italy

1 September 2014

As a further contribution to its strategy to become the market leader, and established across Europe by 2017, BIMobject announces the formation of a subsidiary in Milan, Italy. The BIMobject office in Italy, headed by Massimo Guerini, is located in the Blend Tower.

Massimo brings more than 25 years of relevant experience in CAD, 3D and BIM within the building industry. With extensive experience of international business he is an integral part of the global sales team, which aims to take BIMobject into a leading position, world-wide, in the growing BIM industry. BIMobject Italy will focus on the Italian market as this combines a huge industrial base with very strong

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technology, architecture and design qualities. Italian manufacturers of lighting, furniture and kitchen products are renowned across Europe. There are tremendous opportunities for design-led products from Italy to be created as BIM objects, to provide Italian manufacturers with digital marketing solutions, which help them develop markets outside Italy.

“We see Italy as a key market in the company's international expansion and therefore a subsidiary has been established there to show our strong commitment to offering Italian manufacturers a digital export strategy with BIM,” Says Stefan Larsson, founder and CEO at BIMobject®.

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Chuck Hull, Inventor of 3D Printing and Founder of 3D Systems, Honored by International Academy for Production Engineering

4 September 2014

[3D Systems](#) announced that its Founder and Chief Technology Officer, Chuck Hull, has been honored with the General Pierre Nicolau Award from the International Academy for Production Engineering (CIRP). Hull accepted the award in person from Professor Laszlo Monostori, CIRP President, during the 64th General Assembly of CIRP in Nantes, France on August 25, 2014.

Headquartered in Paris, France, CIRP is the world leading organization in production engineering research and is at the forefront of design, optimization, control and management of processes, machines and systems. The Academy has restricted membership based on demonstrated excellence in research and has some 600 academic and industrial members from 50 industrialized countries.

The General Pierre Nicolau Award, named after CIRP’s founder, is given annually “in recognition of significant and distinguished scientific and industrial contributions to a specific area within the field of production engineering encompassed by the interests of CIRP.” Hull received the award in recognition of his groundbreaking invention of the original 3D printing technology, Stereolithography (SLA®). Hull also co-created the STL file format, which continues to be the gold standard in ultra high-definition 3D printing connectivity with all CAD formats. Today, SLA technology is used to print everything from personalized, in-ear hearing aids and professional music devices to automotive parts for design-to-manufacturing. In 1983, Hull 3D printed a small cup, the first-ever object created with additive technology. The success of Hull’s process served as a catalyst to his founding of 3D Systems in 1986.

“It is a tremendous honor to be chosen for this prestigious award by an institution of CIRP’s caliber and reputation,” said Chuck Hull, Founder and Chief Technology Officer at 3DS. “As 3D printing technology becomes standard equipment on the factory floor and engineer’s workbench, I am excited to see the innovative ways in which my distinguished peers at CIRP and around the world can apply this technology.”

Hull’s award comes just months after being inducted into the [National Inventors Hall of Fame](#) on May 21 for his invention and advancement of 3D printing, and being honored as the winner of the [2014 European Inventor Award](#) in the non-European category on June 17.

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Expanding Surfcam and Radan Reseller Opens New German Offices

4 September 2014

SURFCAM and Radan reseller 3D Concepts GmbH (www.3dconcepts.de) has opened 2 new offices in Germany.

The offices at Aachen-Würselen and Schramberg will be joining the company's headquarters in Empfingen, and premises at Munich and Chemnitz, as venues for both SURFCAM and Radan product and training locations.

"Investing in these 2 new offices is part of our ongoing strategy of ensuring we operate close to our customers," says Managing Director, Erwin Eggert. "The Aachen-Würselen offices will also be used by customers from Belgium and The Netherlands, as they are close to the border with those two countries. For over 17 years customer proximity has been taken very seriously and is a prerequisite for our high level of customer satisfaction."

"For six consecutive years, 3D Concepts has been the world's largest SURFCAM reseller, and early in 2014 was appointed Radan's German distributor. "Radan is a powerful sheet metal software, meeting all requirements for the complete sheetmetal process in one product," says Mr. Eggert. "3D Concepts can be more competitive by having a suite of software solutions from a single supplier, as a number of SURFCAM customers also require a sheetmetal solution."

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Lectra appoints Chris Nicolaes as Managing Director for Germany and Eastern Europe

4 September 2014

Lectra is pleased to announce the appointment of Chris Nicolaes as Managing Director for Lectra Germany, based in Ismaning, near Munich. Chris Nicolaes is responsible for Lectra's activities in Central and Eastern Europe, including Russia and, more globally CIS Countries.

"Our customers in these markets are undergoing far-reaching structural changes. Thanks to its worldwide network, Lectra understands the mechanisms of these changes and goes far beyond providing just a technology: we can help our customers to enhance their entire business processes, especially in Fashion. Chris's experience as a managing director of software and PLM companies in different sectors and countries will help us to further extend our market position," said Daniel Harari, Lectra CEO.

"I am looking forward to exchanging with our customers from a wide variety of regions and industries. For more than 40 years Lectra has been offering solutions to fashion companies and, since 20 years, to customers in the automotive and furniture sectors. All share the need to control the value chain, which is essential in ensuring their success. With our consulting services, our software solutions such as Lectra fashion PLM and Modaris® 3D for Fashion and our cutting room solutions, we are helping our customers to reach this goal successfully," explained Chris Nicolaes.

The native Dutchman started out in 1982 as a management consultant. Then, he founded and successfully managed several IT companies such as JJM Germany, a distributor of ERP Software, that he sold three years later to Marcam, where he was appointed Director for the EMEA region. From 2003 to 2007, he was Director Central & Eastern Europe at Dassault Systèmes, a developer of PLM products.

He holds degrees in mechanical engineering and business administration.

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Mastercam Certified for Access to DMG MORI Manufacturing Suite

4 September 2014

CNC Software, developer of Mastercam CAD/CAM software, announces their collaboration with DMG MORI USA to produce a seamless interface to the Mori-APT workflow. DMG MORI has certified Mastercam to program the DMG MORI mill, lathes, and mill-turn machines that are supported within their Manufacturing Suite Post Processor.

DMG MORI has provided a standard tool path format, called Mori-APT, which acts as the generic input into their Manufacturing Suite post processor to power a growing number of their machines. The intent of this format is that CAM packages, such as Mastercam, will only have to output tool path to this format, and the DMG MORI interface will then tailor the NC code output for the target machine. With the DMG MORI Manufacturing Suite, customers will use a post processor developed and provided by DMG MORI for any of the DMG MORI machines supported by the Manufacturing Suite.

Mastercam users will continue to program their parts in the same manner they do today, but will be able to select the Mori APT-CL for the output format, which then can be post processed to generate NC code through the Manufacturing Suite from DMG MORI. Mastercam's Mori-APT output interface will be available from CNC Software and the Manufacturing Suite Post Processor will be available from DMG MORI.

As DMG MORI adds post processing of newer machine series to the Manufacturing Suite, Mastercam will support them naturally. In the future, all DMG MORI machines will be able to handle this output format. For the time being, Mastercam will continue to support all DMG MORI machines that are not yet supported in the Manufacturing Suite with a post processor available through the worldwide Mastercam Reseller Channel.

At the upcoming IMTS 2014 show, DMG MORI will be giving demonstrations in their booth, of this interface between Mastercam and their machines in the Manufacturing Suite. Stop by booths E-5010 or S-8900 to see it in action.

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Mentor Graphics Announces its Membership in the European Centre for Power Electronics Consortium

28 August 2014

Mentor Graphics Corporation announced its new membership in the German-based European Centre for Power Electronics (ECPE), a European consortium focused on the research, education, technology transfer, and promotion of power electronics globally. Mentor Graphics is the only electronic design automation (EDA) company represented in this industry-driven research network, comprised of over 150 organizations (75 companies and 76 institutions). Mentor Graphics was selected as an ECPE

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member due to its unique expertise in both thermal simulation and test solutions including electronic components power cycling for reliability prediction, as evidenced by its recently announced MicReD® Industrial Power Tester 1500A technology.

The key initiatives of the ECPE are to provide global research on power electronics systems; educate the ECPE member network and electronic engineering industry on advancements via workshops and tutorials; and serve as the “unified voice” for the European power electronics industry. In contributing to the ECPE, Mentor Graphics will focus on its expertise in thermal simulation and test of electronic systems and power cycling technology, which will provide value to the 150+ organizations in this research network. Member companies of the ECPE, such as ABB, Siemens, Fraunhofer, Bosch, ST Microelectronics, Valeo, Infineon and Daimler, will be able to access, share, and apply knowledge on innovative technologies such as the MicReD Power Tester system. Dr. John Parry, electronics industry manager for Mentor Graphics Mechanical Analysis Division, has been appointed to represent Mentor Graphics within the ECPE. Parry is active in the electronics market, having served as the general chairman of SEMI-THERM 21 and currently represents Mentor Graphics on the JEDEC committee on global thermal standards for the microelectronics industry.

“I have seen many in-house realizations of a power tester system. Compared to those solutions, the MicReD Industrial Power Tester 1500A from Mentor Graphics is a fully-featured professionally-packaged system,” stated Thomas Harder, general manager of the European Centre for Power Electronics. “Mentor’s Power Tester detects changes in the thermal stack together with relevant electrical properties during cycling, allowing the evolution of the competing damage mechanisms to be understood.”

“We are honored to have been selected as the only EDA member of the ECPE organization based on our reputation as the only technology company providing both thermal simulation and testing capabilities, particularly power electronics reliability prediction,” stated Roland Feldhinkel, general manager of Mentor Graphics Mechanical Analysis Division. “We foresee tremendous advancements in electronics product lifecycle management by introducing ECPE members to Mentor’s thermal management and verification technologies. Ultimately, from our collaboration with both commercial and research ECPE members, manufacturers will be able to create longer lasting electronics products that will minimize warranty costs.”

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PTC Global Support Drives Business Value for Customers

28 August 2014

Confirming that progressive support strategies offer business value to both PTC and its customers, PTC announced the company was named for the second consecutive year a “Top Ten Best Support Website” for 2014 by the Association of Support Professionals (ASP). This designation highlights the company’s commitment to deliver a global support program focused on the customer experience to build stronger relationships and provide real value that drives business success.

PTC is delivering business value to its customers by re-engineering its Global Support program to move beyond a traditional software sales and maintenance transaction to one that helps its customers meet four

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key challenges:

- Keeping ahead of their competition by delivering high quality products on time
- Delivering software releases that are stable and reliable
- Controlling costs by creating products that minimize the need for customization
- Reducing security threats to intellectual property.

According to Monica Schnitger, president of market research firm Schnitger Corp., “PTC realizes that getting their support offering right is good business practice and a competitive differentiator. A strong services offering gives PTC first insight into customer needs and ultimately builds stronger loyalty to the PTC brand, which makes it more difficult for a competitor to take the account.”

PTC partnered with its customers to help guide the company’s support services direction by offering expertise and insight into the daily tasks, upgrades and migration challenges businesses face. Because of this customer feedback and involvement to develop something that fits their requirements, the usage of the eSupport Portal has increased 165% since the site was launched in 2013.

Brian Martin, from SGT Inc., is a senior mechanical engineer and application administrator at NASA Goddard Space Flight Center and offers this insight about their use of the revamped PTC eSupport portal. “I’ve used PTC products for more than 22 years and am responsible for the deployment, support and administration of PTC software. PTC asked me to provide feedback on how to make the portal more usable and I’m pleased to see they implemented many of my suggestions. For example, it used to take hours to search for, review and understand support tickets, that can now be done in about 10 minutes because the information is available on one dashboard.”

“Exceptional customer support is more than documented processes, technical support hotlines and a website,” said Tony DiBona, executive vice president, global support, PTC. “We believe it’s helping our customers through the entire support spectrum – from demonstrating how they can contribute to new product ideas in our online community, learning about specialized application features online or in live webcasts, and delivering support tools that are integrated right into PTC software. When that’s been accomplished, we have delivered business value to our customers, which is what they need to be responsive ultimately to their customers.”

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Purdue University Joins PTC Authorized Training Program for Product Design and Development Technology

3 September 2014

Continuing with its mission to provide best in class teaching and learning to customers and engineering students, [PTC](#) today announced that Purdue University is the latest university to join its PTC University Authorized Training Program to deliver PTC software training to the surrounding engineering community.

The training will be administered by Purdue's Product Lifecycle Management (PLM) Center and led by Professor Nathan Hartman in the College of Technology. The PLM Center brings together experts from across the university to serve as valuable resources for industry. Since 2002, the PLM Center has been dedicated to promoting the advancement and implementation of PLM through research and education.

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The College of Technology's reputation for industry collaboration, use-inspired research and work at high technology readiness levels reaches around the globe.

“The programs offered by the Purdue University PLM Center using the PTC University Authorized Training Program will be instrumental in our efforts to provide professional level courses for companies that develop, produce and sustain products across industrial sectors,” said Nathan Hartman, director of the PLM Center. “Our goal of promoting PLM-oriented education, and our high level of industry engagement with national manufacturers and other organizations, lines up perfectly with PTC’s commitment to continued professional education.”

“This is an exciting opportunity for PTC and our customers,” said John Stuart, senior vice president, global education, PTC. “Purdue University will provide our customers with a unique opportunity to benefit from best practice training traditionally offered by PTC in addition to the research offered at the Purdue University PLM Center. We are pleased to work with the University to give students and others the opportunity to learn about product design software and technology that’s being used by many global manufacturers.”

Participating in the PTC University Authorized Training Program allows Purdue University to leverage PTC University content to support their professional education curriculum. The Purdue University classes include instruction on model-based definition using PTC Creo® design software and configuration management through PTC Windchill® software, the industry’s leading PLM solution with more than 1.1 million users worldwide. Those who successfully complete this coursework will receive a continuing education certificate of completion from Purdue University.

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SofTech Announces Partnership with Kisters

3 September 2014

SofTech, Inc. today announced its partnership with Kisters AG, creator of 3DViewStation, a high performance 3D CAD digital mockup solution and viewer application.

“SofTech is pleased to announce our partnership with Kisters and its 3DViewStation solution,” said Bob Anthonyson, vice president of business development at SofTech. “This partnership with Kisters further extends our company’s solution portfolio of complementary products. 3DViewStation’s unmatched capabilities will allow our clients to derive even more value from our solutions.”

Kisters 3DViewStation is a powerful 3D CAD digital mockup solution and viewer application that is designed for 3D analysis, viewing, technical documentation and publishing. 3DViewStation is compatible with leading 3D CAD systems including Autodesk Inventor, CATIA, CreoElements | Pro/ENGINEER, NX, Solid Edge, SolidWorks and neutral formats such as JT, STEP, 3D-PDF and PRC. 3DViewStation can be used as a standalone application or integrated with PDM, PLM, ERP, and other systems.

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Solair Presents Solution Partners, the new Programme for Partners Ready to Invest in the IoT

1 September 2014

The chance to enter new markets and new business opportunities; this is the promise of the Solair Solution Partners programme aimed at systems integrators, business consultants, VARs and ISVs who are looking to differentiate and offer compete and innovative IoT solutions to approach the fast growing IoT market.

The role of a Solution Partner is to know how to guide their customers in the field of the Internet of Things. Nowadays, in an increasingly connected world companies have the possibility of exploiting the data collected from their products and use it to make better decisions, implement new business models, offer quality services and reduce costs. The programme allows partners to take advantage of the benefits offered by the Internet of Things in a fast, comprehensive and flexible way, by connecting their customers' business processes with their products to boost their business and offer better products and services.

Solair can meet these needs with its application platform that connects the business to the 'Things' to make better products, offer more competitive services and increase revenues. The process of creating an application for the Internet of Things with Solair is very simple and makes it easy to supply a fast, ready to use IoT application that is customised to meet the needs of the customer.

The objectives of the programme consist in giving partners the knowhow on potential, opportunities and solutions on the Internet of Things market, offer them skills to develop vertical solutions with the Solair Application Platform and/or support them in creating ad hoc solutions and build strategic partnerships to approach different market segments.

The benefits for partners are tangible: being part of the Solair partner ecosystem, the Lead Generation Program, technical training, access to support and sales and marketing documentation (guidelines, presentations, business information...), access to the Customer Success Centre and its documentation (videos, tutorials...) and direct assistance from the R&D department at all development stages.

"We are looking for partners who like us believe strongly in this market and its enormous potential and therefore want to put the Internet of Things to use in their customer's business in a fast, comprehensive and flexible way" declared Tom Davis, CEO of Solair. "We are structured in a way to be able to give all the necessary support to those approaching this market for the first time and those already established on this landscape. Our R&D team can support partners in every stage of the development of IoT applications: our added value is our extremely flexible and easy to use cloud-based platform that allows us to supply the end customer with really intuitive and easy to manage IoT solutions."

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Surfcam Appoints Sunidhi Technologies as India Reseller

28 August 2014

Surfcam Inc., a division of Vero Software, has named Sunidhi Technologies (www.surfcamindia.com), as their new authorized Reseller, providing SURFCAM CAD/CAM sales and support to industrial and educational customers in India.

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“We are pleased to welcome Sunidhi Technologies into the growing worldwide SURFCAM Reseller Network”, say Surfcam General Manager Peter Marton. “Sunidhi Technologies has the expertise, many years of experience and manufacturing presence in India to expand SURFCAM’s brand awareness and sales growth into the growing Indian market. Existing SURFCAM customers in India can also look forward to receiving world-class support, training options via www.askmeengineers.com and manufacturing solutions from Sunidhi Technologies”

“We are very excited to join Vero Software family in India”, says Nidhi Sanghavi of Sunidhi Technologies. “We have found SURFCAM to be the best, all-round CAM package for our customers in India. We are proud to represent both SURFCAM and Part Modeler in our country and also see this as a great opportunity to deliver increased productivity and efficiencies to machinists and manufacturers in India”.

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Tech Soft 3D Selected as Strategic Sales Partner for Polygonica

4 September 2014

[Tech Soft 3D](#) announces the expansion of its toolkit offerings to include [Polygonica](#) from [MachineWorks](#) Ltd. This new agreement allows developers to license fast, robust and accurate polygonal modeling technology from the same partner that provides multiplatform toolkits for visualization, data access, solid modeling and 3D PDF publishing. Like other Tech Soft 3D offerings, Polygonica is easy to integrate, enabling developers to rapidly add rich modeling functionality to their applications.

“Polygonica is quite simply the best polygonal modeling toolkit available,” says Dave Opsahl, Tech Soft 3D VP of Corporate Development. “It’s been fine-tuned over many years within MachineWorks, and the result is a strong, high-performance engine we feel will enhance a variety of application workflows.”

Polygonica’s tested APIs provide the advanced functionality required for even the largest, most complex, and difficult models. Developers find Polygonica to be:

- Extremely Fast – Healing, Boolean and other operations modify models automatically in mere seconds.
- Remarkably Robust – Polygonica delivers fully automated operations for all types of objects, regardless of size or level of complexity.
- Easily Integrated – Powerful, complex technology is bundled into easy-to-use APIs for a hassle-free integration to existing applications, [HOOPS Visualize](#), or other SDKs.

Developers of 3D Printing, Engineering, BIM, Robotics, Medical or any polygon mesh-based application can apply for a free 60-day [evaluation](#) today.

David Manley, MachineWorks Managing Director adds, “Polygonica has already established a reputation as a high-quality mesh modeling toolkit. Tech Soft 3D have a first class reputation for providing component technology and we are confident this partnership will help expand the geographical and market reach for Polygonica.”

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Using C3D Kernel, Student Develops Web-Based CAD System

5 September 2014

As a graduate of the Saint Petersburg State Institute of Technology, Ivan Cherkasov developed EasyBlister as a Web-based CAD system for modeling blister packs in 3D. Creating a browser-based application was the primary topic of Ivan's grad work. Mr Cherkasov and his research advisor chose the C3D modeling kernel from C3D Labs as the core of their CAD system.

The idea behind of this new CAD system is to help engineers design polymer film packs according to the specific needs of customers. The designs of blister packs are governed by their overall appearance, tightness, and protection level -- especially for cases like the long-term preservation of medicine, such as tablets.

How BlisterCAD Works

BlisterCAD was developed as a client-server application, where the code runs on a server and the results displayed in the Web browser client. The user interface allows designers to set initial parameters, operating conditions, and geometric attributes of the blister design directly in the browser window. Based on the user-defined values, the system calls the corresponding API functions from the C3D kernel. On the server, it calculates the 3D coordinates, generates the polygon mesh, and then displays the resulting 3D model of the blister in the browser window.

A separate window displays the values of the surface areas and wall thicknesses calculated from the geometry of the pack. These parameters determine the vapor transmission rate of the pack, as well as deciding whether polymer thermoforming technology can be used.

The system performs all discipline-specific geometric construction automatically. This allows users to avoid employing modeling tools that might be too abstract for their discipline, and so helps them become more productive.

Software Engineering with C3D

"Thanks to the C3D library, we can implement various projects regarding all disciplines and research areas in which our institute operates," said Eugene Tyan, a professor at the Saint Petersburg State Institute of Technology, and research advisor of this graduate work. "What is important to us is that we are not locked to a specific CAD vendor.

"From the developer perspective, we can use any technology and programming tool we want with C3D. For example, this project was implemented as a Web-based application using the C3D kernel doing the server-side calculations. This approach helped us avoid the challenges we might have faced by employing ready-to-use, third-party products, including problems such as licensing issues.

"Our students obtain a unique opportunity to play with a geometric modeling kernel and so create their own simplified, non-commercial CAD system. I consider this to be a great option for the entire educational process, because these R&D projects help our students understand the basic principles of CAD in greater depth."

A Cooperation for Making CAD

The Web-based CAD tool for designing blister packs was developed by the by the Computer-Aided Design and Control Systems Department of the Information Technologies and Control Faculty of the

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Saint Petersburg State Institute of Technology. It was part of an international R&D project organized with Klöckner Pentaplast, a manufacturer of polymer films (<http://www.kpfilms.com/en/index.asp>).

The international project was managed by Tamara Chistyakova (Dr.Sci. in Engineering), an Innovations Pro-rector at the Saint Petersburg State Institute of Technology, and by professor Christian Kolert.

The C3D Educational Licensing Program

C3D Labs is the developer of the C3D kernel and offers academic licenses for educational institutions that include discounted one-year licenses, royalty-free licenses for non-commercial use, and free technical support for the entire period of use. The academic license kernel also includes the handbook "Geometric Modeling" (Academia Publishing) written by Nikolay Golovanov, the C3D development lead and candidate of engineering.

In addition to the Saint Petersburg State Institute of Technology, the C3D kernel is licensed for educational purposes by the N. P. Ogaryov Mordovia State University (<http://www.mrsu.ru/en>) and the Voronezh State Technical University (<http://www.vorstu.ru/en>).

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Events News

ARC Group Worldwide to Present at Brean Capital Technology Conference

29 August 2014

ARC Group Worldwide, Inc. announced that Chairman & CEO, Jason Young, will present at the 2014 Brean Capital Global Technology Conference in New York, NY, on Wednesday, September 3rd, 2014. Mr. Young will host one-on-one meetings with institutional investors throughout the day during the conference. A copy of the presentation is available here:

<http://www.arcgroupworldwide.com/resources/ARCW-Investor-Presentation.pdf>

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BETA CAE Systems and TOP CAE Corporation announces the 2014 BETA CAE Japan Open Meetings in Shin Yokohama and Nagoya

4 September 2014

BETA CAE Systems S.A. and its business partner in Japan, TOP CAE Corporation, have the pleasure to announce the 2014 Open Meetings in Shin Yokohama and Nagoya.

The events will take place in

October 14, 2014, at Shin Yokohama Prince Hotel, Shin Yokohama, and in
October 17, 2014, at the Nagoya Urban Institute, Nagoya.

During this event attendees will have the opportunity to participate in sessions on the latest developments and real case applications, on various CAE disciplines and industries, of ANSA, μ ETA, and the new product SPDRM (Simulation Process Data and Resources Manager).

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A number of very interesting presentations from guest speakers will feature the event's agenda in Shin Yokohama, showing impressive applications of their software in different sectors.

This year, beyond the presentations sessions at the event in Nagoya, BETA CAE Systems offer to their guests the opportunity to benefit from free seminar sessions, on popular topics, selected by their customers. Participation to seminar sessions requires pre-registration.

During the events, the technical discussions and demonstrations will offer attendees the opportunity to discuss with BETA CAE Systems' engineers the software features, their application, and the future developments. A team of CAE experts from BETA CAE Systems and TOP CAE Corporation will be pleased to meet attendees in person and exchange knowledge, experience and visions.

There is no participation fee for the events. Participation to seminar sessions requires pre-registration. Please, register by email no later than Friday October 3rd, 2014 to info@top-cae.co.jp.

The attire will be business casual.

All presentations are in Japanese, unless marked as: [E]* for English with translation to Japanese or [E] for English only.

The events and reception are organized and hosted by TOP CAE Corporation.

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CGTech to showcase VERICUT Programming and Simulation at Advanced Engineering 2014 group of events

4 September 2014

CGTech will be exhibiting at the Advanced Engineering 2014 group of events, which include the Aero Engineering and Composites Engineering shows, on stand C111 in Hall 5 on the 11th -12th November, 2014. The stand will feature the latest version 7.3 of CGTech's VERICUT Machine Tool Simulation, Verification and Feed Rate Optimisation software. CGTech will also be showing its Composites Applications software for programming and simulation of Automated Fibre Placement (AFP) and Automated Tape Laying (ATL).

VERICUT Machine Tool Simulation

CGTech will be showing version 7.3 of the market leading VERICUT CNC machine simulation and optimisation software. VERICUT simulates all types of CNC machining, including aerospace processes such as multi axis milling, drilling and trimming of composite parts, water jet cutting, robotic and mill/turn machining. VERICUT is used to simulate CNC machine Tools from all leading brands including Makino, Starrag, Heller, Matsuura, DMG MORI and Mazak.

VERICUT runs standalone, but can also be integrated with leading CAD/CAM/PLM systems including Dassault Systemes CATIA, Siemens PLM NX CAM, Delcam PowerMill, Vero EdgeCAM, Open Mind hyperMILL, DP Esprit and Missler TopSolidCAM.

VERICUT Composite Applications

Demonstrations of VERICUT Composite Paths for Engineering (VCPe), VERICUT Composite Programming (VCP) and VERICUT Composite Simulation (VCS) will provide visitors with an opportunity to understand the steps needed to get from a CAD designed composite part to CNC programs that drive automated composite machinery. There will be demonstrations of projects that

highlight the implementation and use of machine independent off-line NC programming and simulation software for Automated Fibre Placement (AFP) machines including robotic AFP cells. In addition, CGTech will demonstrate its new programming and simulation software for Automated Tape Laying (ATL).

VERICUT Drilling and Fastening Programming and Simulation

VERICUT Drilling and Fastening is a new software application for simulating and programming auto-drilling and fastening machines. These machines are used to assemble large aero-structures and it is essential to avoid programming errors and collisions at such a late stage in the aircraft manufacturing process. VERICUT allows the user to programme drilling and fastener assembly operations in a virtual machine tool environment and provides simulation to check for a variety of potentially disastrous error conditions. Like all VERICUT software the new module interfaces to leading CAD/CAM/PLM systems and is independent of the assembly machine manufacturer.

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CNC Software Participates in 3rd Annual Manufacturing Day

3 September 2014

CNC Software, Inc., will host an open house at its manufacturing facility located at 671 Old Post Road, Tolland, CT to celebrate Manufacturing Day. The open house will be held on Friday, October 3rd from 10:00 AM to 3:00 PM and is open to members of the community. The CNC Software Educational Division will also be participating in Manufacturing Day events in the greater Seattle, WA are, where their office is located.

CNC Software, Inc., manufactures CAD/CAM software for 2-through 5-axis milling, turning, wire EDM, 3D design / drafting, artistic relief cutting, router tooling, and surface / solid machining. The open house will give visitors a behind-the-scenes look at the Mastercam facility. Get a tour of the building and see the machine shop in action – where Mastercam toolpaths are tested each and every day.

Studies show that almost 80 percent of Americans believe manufacturing is important to our economic prosperity, standard of living, and national security. Yet only 30 percent of those surveyed would encourage their children to go into manufacturing careers. This is a trend that must be reversed and which Manufacturing Day seeks to address by giving more people an opportunity to discover what modern manufacturing environments are really like.

Manufacturing Day is an annual event that encourages hundreds of manufacturers in North America to host students, teachers, parents, job seekers, and other local community members at open houses designed to showcase modern manufacturing technology and careers.

People who are interested in learning more about Manufacturing Day and who wish to attend events in their communities should visit www.mfgday.com. Complete details for CNC Software's event can be found on the site at <http://www.mfgday.com/events/2014/cnc-software-inc--4>.

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MSC Software to Host Materials Roadshow this September and October

2 September 2014

[MSC Software Corporation](#) is a global leader in helping product manufacturers advance their engineering methods with simulation software and services. Propelled by President Kennedy's 1962 challenge to reach the moon, it pioneered the structural engineering simulation software NASTRAN, an application that helped NASA design and test the Apollo rocket and virtually all space vehicles in the ensuing years. More recently, MSC's technology was used to safely land the Curiosity rover on the surface of Mars.

Today, MSC's products are used at companies from Boeing to Airbus, from Toyota to BMW, from Mitsubishi to Samsung and many more.

WHAT: MSC will present new methodologies for materials modeling and analysis, techniques for optimizing the design process, and strategies for making better products using materials simulation.

The challenges faced by companies in today's marketplace have made materials selection and design a key part of product development. New materials such as plastics and reinforced composite materials are used to replace or reinvent components and, in some cases, have even made restructuring and redesign of entire products necessary. Analytical tools that enable the virtual design and optimization of material performance, along with the capturing and storing of material data across its lifecycle, have become critical to reducing the costs and time associated with materials development.

MSC spokespersons presenting include:

- Matthew Kokaly, Ph.D., Aerospace Solutions Manager
- Bob Schmitz, Business Development Manager
- Leo Kilfoy, General Manager, Engineering Lifecycle Management Business Unit

Topics to be addressed include:

- Materials selection and design
- Optimizing the design process
- Improving your final product through materials simulation

WHEN AND WHERE:

Wednesday, September 3rd, 2014 - Newport Beach, CA

- MSC Software Headquarters Training Room
- 4675 MacArthur Ct, 9th Floor, Newport Beach, CA 92660

Wednesday, September 24th, 2014 - Wichita, KS

- National Center for Aviation Training, Room S210
- 4004 N. Webb Rd, Wichita, KS 67226

Thursday, September 25th, 2014 - Dallas, TX

- Hyatt Regency DFW
- 2334 North International Parkway, DFW Airport 75261, Dallas, TX

Wednesday, October 8, 2014 - Huntsville, AL

- University of Alabama in Huntsville

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- Shelby Center for Science and Technology, Room 301
- 301 Sparkman Drive, NW, Huntsville, AL 35805

Thursday, October 9th, 2014 - Seattle, WA

- Impact Hub Seattle - The Learning Studio
- 220 Second Ave South, Seattle WA 98104

Register here: <http://pages.mscsoftware.com/MS-C-Materials-Roadshow.html>

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ModuleWorks to show 2014.08 CAD/CAM Components at IMTS

1 September 2014

ModuleWorks will show the latest version of its CAM components, version 2014.08 at IMTS, the International Manufacturing Technology Show 2014, (booth E-3133) in Chicago from 8-13th September 2014. ModuleWorks is at the forefront of 5-Axis machining and Simulation technology, providing the machining and simulation technology that powers many of the popular CAM systems available today. Each ModuleWorks release contains many new and enhanced features across the product range and this latest version includes new features for 5-Axis, 3-Axis, Port Machining and Simulation. At IMTS, they will be showing the latest release of their component technology; highlights are shown below:

5-Axis Machining

5-Axis SWARF sees a number of improvements to improve efficiency and flexibility.

It now features a built in transform capability to allow repeated rotation or translation of the main toolpath, particularly useful for parts with a regular pattern of duplicated features such as blades. In addition the SWARF also has the option to convert all rapid motion to high federate to provide a smoother overall toolpath motion.

Port Machining now offers an optimized tilt option to minimize the tilt while retaining access to all accessible areas in the port. Less tilting means a more efficient toolpath with reduced potential for collisions. The mesh based undercut machining now incorporates the option to tilt to reach undercut areas. This allows more standard tooling shapes to be used on complex components, increasing efficiency and reducing tooling costs. Automatic collision avoidance is built in to ensure safe operation.

3-Axis Machining

There are many detail improvements across the range of 3-Axis STL mesh and 2.5D wire frame toolpaths. These are focused on toolpath efficiency, flexibility and performance.

3-Axis parallel finishing now offers a round corner option to eliminate sharp changes in direction and provide smoother motion on the machine tool. Adaptive roughing now provides improved linking with motion designed to reduce air cutting and smoother entry onto material.

2.5D wire frame machining now allows heights of profiles to be defined to build up a pocket and boss hierarchy. These heights are observed during toolpath generation and linking to make it easier to machine many profiles in fewer steps with an optimal toolpath. There is also improved corner handling for sharp corners to prevent any rounding of the finished part. This is particularly useful for laser applications. Performance improvements have been achieved in a number of areas, notably roughing

where an order of magnitude improvement has been delivered.

Simulation

The Machine Simulation application now has a brand new ribbon interface in keeping with many of the latest Microsoft Windows applications. The traditional toolbar interface is still available but we expect most customers to prefer the newer style interface.

Visualization of stock removal has been improved. The flute color of the tool now matches the color defined in the analysis table giving a cleaner look and more obvious connection between the tool and the stock removed by it. In addition to this, the final cut model is automatically refined once calculated to improve quality and definition of smaller features. The simulation engine now provides support for laser type applications widening the range of different manufacturing disciplines that can be supported still further. The 2014.08 release is now available to all partners from the customer download area at www.ModuleWorks.com

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New CimatronE 12 to be Showcased at IMTS

4 September 2014

[Cimatron Limited](#) today announced that CimatronE 12, the latest version of its integrated, CAD/CAM software that combines design and NC programming solutions for mold makers, die makers and general high-end machining, will be showcased at IMTS, from September 8-13, 2014.

IMTS, the International Manufacturing Technology Show that is held in Chicago, is one of the largest industrial trade shows in the world. The Cimatron Group booth will feature live demos of the new versions of the company's industry-leading products: CimatronE 12 and GibbsCAM 2015.

"North American toolshops are recently experiencing an ever growing trend by which more jobs are coming back home instead of going overseas. This is a blessing on the one hand, but it also presents a much more serious challenge to deliver tools at more competitive costs" said Bill Gibbs, President North America of the Cimatron Group. "In addition, while delivery deadlines get shorter and shorter, it is not uncommon for shops to find themselves in situations where they are forced to slash delivery times after a project has already started. This presents serious challenges, particularly in managing workflow and remaining profitable. CimatronE's newest version addresses these challenges with significant improvements in design automation, process management, machine utilization and ease of use, and helps our customers achieve success."

On the CAM side, CimatronE 12 has raised the bar with programming efficiency, roughing productivity and finishing quality.

The new NC Setup tool lets users define materials, machines and part setup, offering better process management. The new Machine Preview shortens programming cycles by enabling optimization of multi-axis machine orientation before a toolpath is calculated. Another new capability enables users to visualize the remaining stock in color and on the fly, for better decision making at any point of the process.

Roughing productivity is dramatically enhanced in CimatronE 12, with a new, highly accurate 3D stock for 3+2 Axis positioning and 5 Axis, resulting in safe roughing and reduced machining time.

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Additionally, better surface quality and longer tool life are obtained thanks to the more uniform toolpath, which provides smoother machine motion and reduced vibrations.

A new Rest Milling strategy for handling complex geometry with any cutter combinations delivers a more efficient toolpath and less machining time.

One of the outstanding features of CimatronE 12 is the powerful new EDM Setup environment that can fully control the electrode burning process on any EDM machine as well as enable safe, "lights-out" operation. It can be easily adapted to any customers' in-house methodology and standards, supporting both direct and indirect output file formats.

Mold and die designers will enjoy a revamped insert design application that automatically creates all standard aspects of the design, saving a lot of time and manual operations. Additionally, Motion Simulation is greatly enhanced, with the ability to conduct valuable dynamic analysis at the very start of a project.

To top things off, new cooling design and analysis capabilities support both traditionally drilled cooling channels as well as conformal cooling channels that are typically manufactured using 3D printing technologies. CimatronE 12 also supports the AMF (Additive Manufacturing File) format - the new standard for converting 3D models into digital files.

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SoftInWay to Introduce Newest Developments at Turbo & Pump Symposia

5 September 2014

SoftInWay Inc. will be presenting its most recent developments at the 43rd Turbomachinery and 30th Pump Symposia on September 22-25, 2014, at the George R. Brown Convention Center in Houston, Texas. Throughout 2014, SoftInWay has considerably expanded the capabilities of its flagship Turbomachinery software, AxSTREAM and AxCYCLE. The new software improvements for SCO2, ORC and Automotive applications enabled the company to add 13 clients and to reduce their total resources spent on engineering projects by an average of 27%. Join their team at the symposia in booth #807 to learn about these new software updates, including:

- An enhanced fluid designer using NIST library, adjusted loss models and new component experimental and geometric data for the design of Supercritical CO2 and Waste Heat Recovery cycles.
- Enhanced structural analysis capabilities which allow for the performance of stress analysis on additional blade components such as disk and attachments. This is especially useful for retrofitting and cycle change applications.

Additionally, the company has released a great new resource for learning Turbomachinery fundamentals, design, analysis and optimization. "Our new online learning center allows clients and students to access free educational materials on turbomachinery design and analysis. They can study 1 hour lectures, take exams, and focus on aspects of turbomachinery design or optimization most relevant to their work. Also the intuitive testing allows engineers to assess the areas of knowledge gaps and improve them" said Valentine Moroz, COO of SoftInWay Inc. "We recognize the value of education in furthering technological potential and, in addition to our extensive paid course program, decided to add some free options for students and our existing clients. Additionally, all students who successfully pass

the testing in the Learning Center will receive a Turbomachinery Certification.”

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Vero and HASCO to Demonstrate Design Collaboration

2 September 2014

HASCO, suppliers of modular standard mould units and accessories will be featuring demonstrations on its stand at Interplas, showing how VISI, from Vero Software can connect to the HASCO libraries, leverage the digital data and automate the design and manufacturing process.

The demonstration focuses on a dual ejection tool with collapsing cores, showing the considerable benefits of 3D development using a combination of VISI design tools and standard components alongside a mixture of custom HASCO products. As a leading supplier of standard mould plates and kits, along with components such as system plates, guide pillars, ejector pins, collapsing cores or hot runner solutions, HASCO simplifies and standardises mouldmaking – maximising productivity, quality and innovation.

VISI includes a large selection of internal HASCO components, along with the correct 2D drawing views, BOM information, and CAM instructions, allowing manufacturers to automatically machine their plates. As well as reading external HASCO components from the Universal module or from the online store, the DAKO application from HASCO can also be used to create a native WKF file for VISI, which can be automatically loaded into the tool design.

Commenting on the partnership, HASCO Managing Director, Neil Moseley says “Hasco recognize the importance of efficient mould design and construction, and our collaboration with Vero will enhance our services further.”

The joint demonstration can be seen at stand A12 in Hall 4 at the NEC in Birmingham from September 30th to October 2nd. Extended demonstrations of other VISI applications, including model analysis, plastic flow front simulation, and 3D tool design will take place on the Vero stand, A6 in Hall 4.

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Financial News

Oracle Sets the Date for Its First Quarter Fiscal Year 2015 Earnings Announcement

5 September 2014

Oracle Corporation today announced that its first quarter fiscal year 2015 results will be released on Thursday, September 18th, after the close of the market. Oracle will host a conference call and live webcast at 2:00 p.m. Pacific Time to discuss the financial results. The live webcast will be available on the Oracle Investor Relations website at www.oracle.com/investor.

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Implementation Investments

CDS Catalog Faceted Search, SEO and CAD Solution Selected by Gilman Precision to Meet Customer Needs

3 September 2014

[CDS \(Catalog Data Solutions\)](#) announced that its Catalog as a Service™ and CAD as a Service™ solutions has been selected by Gilman Precision Inc.

[Gilman Precision](#) is a Grafton, WI based manufacturer of linear and rotary motion solutions. “Today, the industrial buying process has changed. We all now search online for what we need and industrial designers do the same – often before talk to a potential supplier. Therefore the first impression potential customers get of our company is often our website, so it needs to give them an excellent and polished experience,” Douglas Biggs, Vice President Sales and Marketing, Gilman Precision. “Our customers were requesting downloadable 3D CAD models of our products so we had to meet that need but we also wanted to get found online via SEO. We evaluated at several suppliers and CDS Catalog as a Service™ and CAD as a Service™ were technologically more advanced and well proven in the market, offered better SEO, tracking and analytics tools and were more favorably priced. We look forward to the new solution going live later this year.”

“We’re absolutely delighted to have been selected by Gilman Precision,” said John Major, CEO CDS. “As industrial product selection and buying continues to change and evolve, sales and marketing organizations need to continually come up with ways to get in front of the selection and buying cycle. Gilman Precision has done just that!”

CDS helps grow sales and strengthen customer loyalty for its clients through interactive online product catalogs, ecommerce, 3D CAD & BIM model delivery and product configurator solutions.

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Giprogazoochistka Expands the Use of AVEVA Technologies

4 September 2014

Today AVEVA announced that JSC Giprogazoochistka (GGO) will expand its deployment of AVEVA software solutions as part of its strategy to boost project capacity. The company has extended the use of its existing AVEVA products and will now adopt additional products, including AVEVA PDMS, AVEVA Diagrams, AVEVA Instrumentation, AVEVA Review, AVEVA Engineering, AVEVA Bocad, AVEVA Cable Design and AVEVA Schematic 3D Integrator.

GGO is one of the most dynamic and innovative companies in Russia’s engineering and design industry. It began working with AVEVA solutions about six years ago and found implementation to be a smooth and easy process without data loss. Additionally, AVEVA’s solutions integrate seamlessly and are interoperable with a wide range of third-party solutions. This rapid set up and early proof of effectiveness led GGO to invest more extensively in AVEVA technologies in order to make its operations more versatile and to increase efficiency more widely across the business.

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In April 2014 GGO reviewed the AVEVA Engineering solution on a final pilot project. ‘One of our objectives was to develop a single standard for datasheets because it’s impossible to automate our work processes without it,’ Sergey Terentyiev, Deputy Managing Director, commented. ‘We had very challenging time frames but, despite this, the project was very successful; all the standards have been developed and implemented. Going forward, the same tasks can now be completed much faster and more efficiently. We are now focused on moving into the next AVEVA Engineering implementation phase, where we will centralise data from our processing lines.’

‘Giprozoochistka was one of the first companies to implement AVEVA Engineering and its specialists were closely involved in the development of this powerful solution,’ explained Dmitry Smeltsov, Regional Manager AVEVA Russia & CIS. ‘AVEVA places a high value on such early stage collaboration, as it is crucial to the continual progression of AVEVA solutions and helps our customers to achieve their goals faster and with fewer risks.’

GGO has a wide range of industry leading customers including: LUKOIL, Gazprom-neft, Surgutneftegas, TATNEFT, TNK-BP, ROSNEFT, GAZPROM, Severstal, Novolipetsky, Magnitogorsky, AvtoVAZ, as well as many other domestic and foreign manufacturers.

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Textron Systems Adopts iBAsEt’s Manufacturing Execution System (MES)

3 September 2014

iBAsEt announced today that Textron Systems, a provider of advanced marine craft and armored vehicles to United States and international customers, is going live with Solumina’s [Manufacturing Execution System \(MES\)](#), including Quality, Planning, Work In Process and Business Integration Services modules to streamline their global manufacturing operations.

Textron Systems chose to standardize on iBAsEt’s Manufacturing Execution System to efficiently manage thousands of mission critical requirements and operations while providing managers with instant control and visibility into as-built manufacturing work processes, while also delivering digital work instructions all through one fully integrated system. Textron Systems relies on Solumina today to capture all manufacturing data during the entire product’s manufacturing lifecycle, providing detailed manufacturing information easily accessible through dashboards, graphs and reports at the click of a button.

Additionally, because Solumina incorporates strict Six-Sigma and ISO-9000 process control methodology, Textron Systems is enhancing quality checks and balances throughout its manufacturing operations, resulting in a significant reduction in defects, increased throughput and enhanced collaboration between engineers and manufacturers.

‘We look forward to contributing to Textron Systems’ continued attainment of their Product Lifecycle Execution objectives and strategies. This deployment sets the foundation for long term asset management and overhaul,’ said Michel Gadbois, VP of Worldwide Sales. ‘More importantly, implementing an out-of-the-box solution like Solumina with over 3,900 built-in functions has made a successful implementation achievable with a low ratio of services cost to software.’

The additional Quality, Planning, Work In Process and Business Integration Services modules will be utilized in Textron Systems’ New Orleans-based Shipyard Operations with plans to point Solumina

across all of its programs.

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Product News

AMC Bridge Releases ViewER 2.0

1 September 2014

AMC Bridge announces the release of [ViewER 2.0](#), a new version of an application for rendering 3D models on Android mobile devices.

ViewER 2.0, the new version of the popular 3D viewer for Android devices, extends the list of supported formats to such popular CAD formats as STL, PLY and 3DS. The new version also offers a faster opening of OBJ files.

The product is free and can be downloaded from Google Play Store at:

<https://play.google.com/store/apps/details?id=com.amcbridge.viewer>

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Aras Announces Availability of Enterprise PLM Platform on SQL Server 2014

3 September 2014

Aras® today announced enablement of the Aras Innovator® platform and solution suite on Microsoft SQL Server 2014. Aras on SQL Server 2014 offers a new level of enterprise PLM scalability for data center, cloud, and hybrid deployments.

“As global companies extend their PLM backbone through the organization and across the supply chain, performance at scale becomes critical for effective collaboration,” said Robert Parker, group vice president at IDC. “Enabling Aras on SQL Server 2014 should provide the scalability necessary to compete for implementations that require global access for large numbers of users.”

Running Aras on SQL Server 2014 provides benchmark proven database performance for 1 million named users with 250,000 concurrent users, the largest published user scalability testing ever conducted in the PLM industry. For additional information read Aras Innovator 10 Running on SQL Server 2014 Scalability Benchmark Methodology and Performance Results Report at www.aras.com/scalability

“SQL Server 2014 gives our customers a comprehensive data platform that delivers breakthrough performance for large scale mission-critical applications like Aras,” said Eron Kelly, general manager, SQL Server Product Marketing, at Microsoft. “The Aras enterprise PLM solution on SQL Server 2014 provides global companies with a resilient platform that spans on-premise and cloud scenarios.”

SQL Server 2014 Enterprise Edition has introduced a wide range of performance and scalability enhancements into the database engine, to enable even greater support for demanding workloads and big

data. In-Memory OLTP and Buffer Pool Extension to SSD along with a new design for cardinality estimation logic provide new levels of performance for mission-critical applications such as enterprise PLM. Other improvements include greater processing, memory capacity, and increased partition support. Together, these capabilities help SQL Server 2014 deliver predictable performance at scale for global companies running Aras.

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Bentley Releases MOSES V7.1 for Floating Offshore Structures

4 September 2014

Bentley Systems, Incorporated, released [MOSES](#) V7.1 software for the hydrostatic and hydrodynamic analysis of offshore platforms and vessels. *MOSES* is the leading software for the analysis and simulation of complex offshore structure transport and installation projects. Featuring functionality covering the full range of stability, motions, and mooring studies of offshore operations, *MOSES* is the mainstay for professional engineers to reliably meet stringent offshore code requirements, reduce project risks, and increase safety. Users of *MOSES* V7.1 further benefit from:

- a modern graphical user interface that ensures model accuracy and consistency;
- faster, intuitive 3D modeling to help explore design alternatives (optioneering);
- easier editing and management of *MOSES* simulation scripts;
- reduced delays and rework from the tighter integration of *MOSES* and Bentley's [SACS](#) software for the analysis and design of fixed platforms and topsides;
- enhanced information mobility through [Integrated Structural Modeling](#).

Phil Christensen, Bentley vice president, offshore, said, "This first major release of *MOSES* since Bentley acquired it in October 2013 increases the software's interoperability and extends the resulting information mobility that is a Bentley hallmark. For starters, it offers an enhanced ability to import *SACS* structural models into *MOSES*, along with the automated generation of *SACS* loading files from *MOSES* – enabling collaborative workflows among offshore structural engineering and naval architecture teams.

"In addition, through *MOSES* V7.1's support of Integrated Structural Modeling, users are able to work within integrated and flexible structural modeling, analysis, design, documentation, and detailing workflows. This gives them the advantages of intelligent structural design practices, which can help them deliver offshore platforms faster while reducing project risks."

Ian Emery, information coordinator global engineering, Dockwise, said, "Dockwise has been using both *SACS* and *MOSES* for many years, and has established best practice procedures for jacket launch and topsides float-over installation. Recently, we have been pioneering their use on especially large and heavy installations, such as the successful topside installation and jacket launch for the SHWE field development project in the Bay of Bengal, Myanmar, which marked a significant milestone for Dockwise. We welcome the new enhancements to the *MOSES* product line and look forward to future developments that will help us remain innovative and a leader in the offshore oil and gas industry."

Other features of *MOSES* V7.1 include:

- new hull and compartment modeling tools that use industry-standard NURB surfaces compatible

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with Bentley's *MicroStation* information modeling software, along with other modelers on the market; these new hull and compartment modeling tools are easy to learn and reduce modeling times and errors when creating complex analysis models;

- new automated meshing functions that are suitable for all types of hull geometry and result in highly accurate mesh generation;
- enhanced visualization of analytical results by way of a new motions application that provides interactive static graphing and dynamic video creation of motions analysis results;
- a dedicated language editor in the *MOSES* simulation language (the most used approach in the offshore industry for simulation of complex offshore installations) with command auto-complete, context-sensitive help, as well as color coding and macro and program block management.

Bentley's Engineering Software for Offshore Structures

Bentley continues to be a leader in the provision of engineering software for better-performing, safer, and more resilient offshore structures, addressing key drivers:

- managing risks via compliance with design codes
- time to first production
- globalization of design teams

In addition to *MOSES*, Bentley's engineering software for offshore structures includes *SACS*, for the structural analysis and design of fixed platforms as well as topsides for fixed platforms, floating platforms, and floating production, storage, and offloading (FPSO) units, and [*MAXSURF*](#), for the initial hull design of new vessels and review of stability for modifications to existing vessels.

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Spatial Corp. Releases Latest Version of 3D Software – Enabling Customers to Expand Market Share and Increase Innovation

4 September 2014

Spatial Corp., has announced the R25 release of [3D ACIS Modeler](#) and [3D InterOp](#) for data reuse. The latest release delivers enhanced features that enable Spatial's customers, such as Independent Software Vendors (ISVs) and Machine Tool Manufacturers, to expand their market share and competitively differentiate their products.

Spatial's integrated portfolio of [3D solutions](#) allows customers to become more competitive by providing the most advanced 3D capabilities for 3D application development. The functionality and features in this latest release will enable customers to reach new markets, such as automotive and construction. This release also continues to meet Spatial's objective of making 3D models more intelligent by including increased PMI capabilities, advanced feature detection, and support for Model-Based Engineering (MBE) / Model-Based Definition (MBD).

“Leveraging Spatial's [data reuse](#) capabilities in their R25 release enables us to integrate our applications more easily into our existing workflows with very little disruption and high reliability. For our end users, problems in the workflow have an associated cost and are typically viewed as problems in their application. Functionality in Spatial's R25 release prevents our users from ever seeing problems by automatically cleaning and repairing the CAD model during the import process,” stated Carl Olsen, lead

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software engineer for [OMAX Corporation](#). “By providing a solution to our customers that saves them significant time and money, we enable them to stay ahead of the competitive curve and focus their time on innovation.”

“At Spatial, we partner with our customers and provide them with easy-to-use components that handle the underlying complexity of 3D modeling, allowing them to focus on their unique innovations,” explained Vivekan Iyengar, vice president of research and development for Spatial. “These latest enhancements to 3D ACIS Modeler and 3D InterOp provide even more features that will enable our customers to expand into new markets with increasingly innovative solutions.”

Spatial’s integrated portfolio of 3D components and accompanying services for software developers is the backbone of industry leading companies that provide 3D solutions from desktops to tablets. For example, ISVs who develop solutions around 3D models for industries such as [AEC/BIM](#), [CAE](#), [CAM](#) and [EDA](#) seek 3D software components to enable increased innovation. [Machine Tool Manufacturers](#) are seeking better ways to serve their customers with software that is cost effective, easy-to-use, and takes advantage of the nuances of their machines.

3D ACIS Modeler

Providing a foundation of high-quality 3D components, Spatial’s 3D ACIS Modeler accelerates application delivery time by simplifying development efforts, thereby saving software development time. The latest version of 3D ACIS Modeler includes the following enhancements:

- New Boolean features that simplify manufacturing workflows.
- Easy handling of non-exact geometry, allowing more intelligent, effective re-use of geometry, which saves time and allows designers and engineers to focus on innovation.
- New functionality for feature recognition enabling designers to edit feature level geometry without the need to edit the model history to be used for visualization, analysis and simulation. This capability was specifically designed for the EDA market and the modeling of printed circuit boards where the features can easily be in the thousands.

3D InterOp for Data Reuse

Spatial’s 3D InterOp provides the ability to selectively import product structure, graphics data, geometry and PMI from a variety of leading CAD and neutral formats, allowing improved competitive differentiation, faster time-to-revenue, and greater quality for application development. Enhancements to the latest version of 3D InterOp include the following:

- Support for additional 3D data formats (DXF, DWG, STL and those commonly used in the automotive market), allowing Spatial’s customers to reach into new markets and industries.
- Expanded PMI capabilities—both graphical and semantic, allowing Spatial’s customers to provide capabilities to support MBE/MBD initiatives.

R25 enhancements to both components will take full advantage of the performance capabilities of any underlying hardware the end user is using. Software developers will be able to take advantage of these “out of the box” capabilities, such as multi-thread and multi-processing, without special programming.

Vivekan Iyengar, will host a webinar on September 25, 2014, 11:00 AM MST. Join us for this webinar to learn how you can become more competitive by providing the most advanced 3D capabilities for 3D application development. Mr. Iyengar, will demonstrate the new features and functionality and show how the latest enhancements to 3D ACIS Modeler and 3D InterOp will enable customers to expand into new markets with increasingly innovative solutions. To register for this event, visit:

<http://info.spatial.com/r25-webinar-registration>.

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IGC Announces Brava! Enterprise 7.2 for EMC Webtop

2 September 2014

[Informative Graphics Corporation](#) (IGC®) announces Brava!® Enterprise 7.2 for EMC Webtop. This release of Brava for Webtop will also be integrated into the latest version of EMC Documentum Capital Projects, available soon. Brava 7.2 includes these features and enhancements:

- The cross-platform Brava HTML5 client now offers vector viewing for crisp views at tight zoom levels plus the ability to set CAD layer visibility and view object attributes.
- The new Brava 3D ActiveX client displays 3D models. Measure, locate and identify parts, access part and subassembly info, view multi-plane cutaways and cross sections, and explode assemblies.
- Sign documents electronically, adding an electronic signature, initials or a professional seal with Brava, then create a PDF of the signed document.
- Checkview streamlines repetitive form reviews. Use Checkview to flag form areas requiring review and provide instructions to reviewers. Reviewers are stepped through each area and must approve or reject each one to move on to the next.
- Enhanced text comparison collapses large areas of unchanged text and highlights lines with changes. Highlight colors can be changed to accommodate 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.

"We're pleased to bring 3D viewing and HTML5-based vector viewing to EMC Documentum Webtop," said IGC CEO Gary Heath. "IGC's platform-independent HTML5 client lets PC and Mac users access crisp, readable content and CAD viewing functionality."

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Infor Bridges the Operational Strategy Gap with Infor S&OP 10x

4 September 2014

[Infor](#) today announced [Infor Sales and Operations Planning \(S&OP\) 10x](#). The 10.4 version of Infor S&OP marks a major development in sales and operations planning and provides a framework for manufacturing and distribution companies to bridge the gap between operational realities and financial objectives. The release features [Infor's 10x technology](#), which utilizes [Infor ION®](#), a purpose-built middleware, and social collaboration engine: [Infor Ming.le™](#) to facilitate and record internal communications across all functions and departments, as well as external communications with customers and suppliers. Infor S&OP 10x helps customers achieve financial and strategic business

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objectives through a mature S&OP model with greater speed and efficiency.

"The introduction of the component of S&OP is a further step in the improvement and optimization of operational procedures that characterize the highly integrated operations between headquarters and markets," said Vittorio Boero, chief information officer, Ferrari.

The 10x release offers the full Social S&OP functionality that enables users to work together with greater accuracy and efficiency. As an Infor Ming.le enabled solution, customers are able to easily collaborate on business processes throughout the supply chain and enterprise. Social S&OP provides a single point to review planning alerts, exceptions, outstanding tasks and workflows and enables individual escalations from other stakeholders. The solution features a component called S&OP Xpress that provides best-practice, prebuilt content that allows rapid implementations of Infor S&OP, while aligning customers in mature, complete Infor S&OP processes. This includes preconfigured reporting, workflows, KPIs and planning. S&OP 10x also provides a playbook component to organize pre-S&OP meeting reports into structured chapters, automatically generates formatted Microsoft PowerPoint presentations, and is equipped with Infor GIS capabilities to provide users with a visualization of where demand and supply are occurring, where products perform best and where costs are a concern.

The solution supports intelligent decision-making to generate the best possible outcomes using embedded graphics and analytics through Infor ION Business Intelligence (BI). Infor S&OP 10x can also reduce the need to reconcile transactions by allowing users to drill down into individual production and sales orders. With multi-panel and embedded worksheets, the solution allows data to be populated in real-time, which enables users to process the data with greater efficiency.

"Infor S&OP 10x is designed to help companies evolve their S&OP model to achieve a more profitable balance between supply and demand," said John Bermudez, vice president, Product Management, Infor. "By supporting the planning process with pre-built workflows and social collaboration, and equipping users with 10x technology, this release of Infor S&OP helps companies to ensure that operations processes support their overall strategy, and vice versa."

Infor S&OP will serve as a core component for the upcoming Infor Integrated Business Planning suite, which will be announced later this year.

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PDF3D Accelerate Update with Advanced PRC Features for 3D PDF

3 September 2014

Originally scheduled for November 2014, the developers at PDF3D have accelerated production of their latest version update with even more features than initially planned - the most exciting of those being the advanced PRC features for CAD users and engineers, alongside some new geospatial features for those working in civil, surveying and mining.

PRC is fast becoming the preferred and most feature-rich method used to embed 3D data and models into a PDF file and both [PDF3D SDK](#) and [PDF3D-ReportGen](#), have been using the power of [PRC](#) technology since they were first released four years ago. It's only now however that this new format can take CAD models and compress them with PRC to a much higher standard than users have ever seen.

"Back in 2010, our team brought PRC into our products to give PDF conversion superior compression,

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over the commonly used U3D method. That same team are still active today and have been continuously innovating with PRC all this time. We've been entrenched in PRC for many years and are excited to see it now being spoken about within the engineering communities, especially amongst AutoCAD users who want to [convert large DWG files](#) into interactive, animated 3D PDFs they can share with anyone", explained Ian Curington of PDF3D.

As the term PRC gathers momentum amongst developers and end-users, PDF3D are keen to build on their reputation in the field to educate people on the benefits of using PDF conversion software with the technology already built in.

"We've created a series of blogs and factsheets over the past few weeks educating people on PRC which can be found on our website: [About PRC](#). Our fan base expects our technology to continue being the easiest to use and integrate and so we've been careful to maintain that despite the powerful technology we're using in the development. With this new version update, we're confident CAD users will really enjoy using our one-click conversion software knowing that all the complex PRC tech is happening automatically in the background", added Mr Curington.

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SENER Announces the New Release FORAN V70R3.0

2 September 2014

SENER announces the new FORAN V70R3.0, available from the 31st of July, 2014. With more than 45 years in the market, FORAN takes advantage of SENER's innovative development effort as the key factor to give added value.

The new version incorporates improvements for the users and on its own technology. Some remarkable new aspects are described below.

FORAN offers a solution covering all design stages and disciplines. The process starts with the forms generation in FORAN or imported from a third-party solution.

The module FGA for the generation of the general arrangement allows a quick definition of compartments and spaces in 3D. This module incorporates new functionality for the early positioning of equipment in the 3D model that can be linked intrinsically to the spaces of the ship and will be integrated with the rest of outfitting solutions in further design stages.

A new module, FABASIC, groups all the former applications related with the naval architecture calculations, storing the information in the FORAN database and allowing to organize the concepts in a hierarchical tree. New enhancements are the interactive definition of loading conditions and a user-defined stability criteria, all integrated with the spaces and volumes defined in FGA module of FORAN. FBASIC will be finished in December 2014, with the incorporation of the deterministic stability module (FLOOD), probabilistic method (FSUBD) and the module for launching (LAUNCH).

The hull structure definition in FORAN follows automated and intelligent-oriented tasks taking advantage of the topological model. The new release improves the structure model definition with fast generation of fabrication outputs. It is worth to mention the innovative representation of structural parts by BREP and new enhancements in the generation of a simplified model to be exported to FEM tools, reducing dramatically the time during the analysis process.

Finally, as FORAN is not only devoted to ship design but also to offshore units, some options are

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oriented to this kind of problematic, such as the possibility to handle transversal symmetries.

The recently re-developed solution FSYSD for the diagrams definition adds functionality, such as new instrumentation lines according with ANSI/ISA-S5-1-1984/1992 regulation. The communications with other systems has been improved and now it is possible to export multiple diagrams in PDF format. Other options are the automatic labelling and improvements to check the diagram integrity.

The solution for the standards definition, equipment layout, piping, auxiliary structures, HVAC and interference checking is totally integrated with the rest of FORAN disciplines. Regarding FPIPE, some remarkable aspects are a new entity for equipment assembly, the replacement tool for straight fittings in pipelines and other functionality in auxiliary structures and supports.

Within the electrical design in FORAN, FCABLE reduces the wasted gaps in the cable filling and allows to export cable transits to Hawke's HDS. On the other hand, the module FREPG for the reports generation allows to define labels including a QR code.

FDESIGN is the solution for the automatic drawing generation in all FORAN disciplines. In this regard, some remarkable upgrades are improvements to optimize the labelling, the possibility of having drawings of sections defined in different planes and more properties for distributors containing different heights referred to decks.

Is important to mention the effort in the development of the integration between FORAN and different Product Life Cycle Management (PLM) tools, by means of an advanced and open integration that follows the user demands.

Finally, SENNER offers a set of solutions for the visualization of the ship 3D model already generated in FORAN in a virtual reality environment, with examples from a stereoscopic view in a big screen, through cave, helmet or in mobile devices.

With this, FORAN keeps being an advanced shipbuilding CAD/CAM system.

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Spatial Corp. Releases Latest Version of 3D Software – Enabling Customers to Expand Market Share and Increase Innovation

4 September 2014

Spatial Corp., has announced the R25 release of [3D ACIS Modeler](#) and [3D InterOp](#) for data reuse. The latest release delivers enhanced features that enable Spatial's customers, such as Independent Software Vendors (ISVs) and Machine Tool Manufacturers, to expand their market share and competitively differentiate their products.

Spatial's integrated portfolio of [3D solutions](#) allows customers to become more competitive by providing the most advanced 3D capabilities for 3D application development. The functionality and features in this latest release will enable customers to reach new markets, such as automotive and construction. This release also continues to meet Spatial's objective of making 3D models more intelligent by including increased PMI capabilities, advanced feature detection, and support for Model-Based Engineering (MBE) / Model-Based Definition (MBD).

“Leveraging Spatial's [data reuse](#) capabilities in their R25 release enables us to integrate our applications

CIMdata PLM Industry Summary

more easily into our existing workflows with very little disruption and high reliability. For our end users, problems in the workflow have an associated cost and are typically viewed as problems in their application. Functionality in Spatial's R25 release prevents our users from ever seeing problems by automatically cleaning and repairing the CAD model during the import process," stated Carl Olsen, lead software engineer for [OMAX Corporation](#). "By providing a solution to our customers that saves them significant time and money, we enable them to stay ahead of the competitive curve and focus their time on innovation."

"At Spatial, we partner with our customers and provide them with easy-to-use components that handle the underlying complexity of 3D modeling, allowing them to focus on their unique innovations," explained Vivekan Iyengar, vice president of research and development for Spatial. "These latest enhancements to 3D ACIS Modeler and 3D InterOp provide even more features that will enable our customers to expand into new markets with increasingly innovative solutions."

Spatial's integrated portfolio of 3D components and accompanying services for software developers is the backbone of industry leading companies that provide 3D solutions from desktops to tablets. For example, ISVs who develop solutions around 3D models for industries such as [AEC/BIM](#), [CAE](#), [CAM](#) and [EDA](#) seek 3D software components to enable increased innovation. [Machine Tool Manufacturers](#) are seeking better ways to serve their customers with software that is cost effective, easy-to-use, and takes advantage of the nuances of their machines.

3D ACIS Modeler

Providing a foundation of high-quality 3D components, Spatial's 3D ACIS Modeler accelerates application delivery time by simplifying development efforts, thereby saving software development time. The latest version of 3D ACIS Modeler includes the following enhancements:

- New Boolean features that simplify manufacturing workflows.
- Easy handling of non-exact geometry, allowing more intelligent, effective re-use of geometry, which saves time and allows designers and engineers to focus on innovation.
- New functionality for feature recognition enabling designers to edit feature level geometry without the need to edit the model history to be used for visualization, analysis and simulation. This capability was specifically designed for the EDA market and the modeling of printed circuit boards where the features can easily be in the thousands.

3D InterOp for Data Reuse

Spatial's 3D InterOp provides the ability to selectively import product structure, graphics data, geometry and PMI from a variety of leading CAD and neutral formats, allowing improved competitive differentiation, faster time-to-revenue, and greater quality for application development. Enhancements to the latest version of 3D InterOp include the following:

- Support for additional 3D data formats (DXF, DWG, STL and those commonly used in the automotive market), allowing Spatial's customers to reach into new markets and industries.
- Expanded PMI capabilities—both graphical and semantic, allowing Spatial's customers to provide capabilities to support MBE/MBD initiatives.

R25 enhancements to both components will take full advantage of the performance capabilities of any underlying hardware the end user is using. Software developers will be able to take advantage of these "out of the box" capabilities, such as multi-thread and multi-processing, without special programming.

Vivekan Iyengar, will host a webinar on September 25, 2014, 11:00 AM MST. Join us for this webinar

to learn how you can become more competitive by providing the most advanced 3D capabilities for 3D application development. Mr. Iyengar, will demonstrate the new features and functionality and show how the latest enhancements to 3D ACIS Modeler and 3D InterOp will enable customers to expand into new markets with increasingly innovative solutions. To register for this event, visit: <http://info.spatial.com/r25-webinar-registration>.

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SPRING Technologies Announces Version 9.2 of its NC Machining Simulation Solution: NCSIMUL Machine

1 September 2014

[SPRING Technologies](#) announces the release of NCSIMUL Machine 9.2, flagship of its NCSIMUL SOLUTIONS portfolio. Pursuing its commitment to the development of the factory of the future, SPRING Technologies is enriching its solution with additional properties for its Composites module and enhancing its capabilities in terms of automation, ergonomics and, ultimately end-user productivity.

"NCSIMUL Machine is our flagship. We have been developing the solution for 17 years and we progress it with state-of-the-art technology, drawing on our expertise in industry applications, and addressing market needs", explains Olivier Bellaton, Managing Director of SPRING Technologies.

"With Version 9.2, we bring our users the very best technology to automate tasks that deliver no added value, and secure the information, data exchange and tool paths - all of this in a 3D graphic environment. Each new version brings us a step closer to SMART INDUSTRY."

With NCSIMUL Machine users can:

- Control the global machining process;
- Simulate, check, optimize and modify their machining programs;
- Detect collisions;
- Optimize cutting conditions;
- Release a standardized technical content throughout the workshop.

"Version 9.2 is a major step forward in our product strategy", adds Philippe Solignac, Corporate Marketing Director at SPRING Technologies.

"We are going forward step by step to bring our customers even higher levels of automation, security and mobility. This is precisely what the market is demanding and is our vision - what we call the NCEXPERIENCE®."

The main new features of NCSIMUL Machine 9.2

- GREATER ANALYSIS : time graph, time-to-complete display;
- NEW FEATURES FOR THE COMPOSITES MODULE;
- ENHANCED USER EXPERIENCE: NCSIMUL SOLUTIONS Downloader.

Automation: real-time information

- **Cutting parameter time graph:** the major innovation of version 9.2.

This fully customizable graph facilitates the interpretation and analysis of cutting data. With the X axis

showing the program time and the Y axis displaying a selected cutting parameter, users can clearly and simply view variations in the cutting parameter, with a dynamic link to the NC program.

Users can also choose whether to display all tools simultaneously or just the current tool and compare data before and after machining has been optimized.

- **Time-to-complete display:** a new window, refreshed dynamically during the machining simulation, offers users the ability to monitor the time-to-complete for the active block till the next event (machine stop, tool change, end of program, end of machining) in real time.

New enhancements for the Composites module

After last January's announcement of a module to simulate composite material lay-up, SPRING Technologies is pursuing its dedicated R&D, notably for the aeronautic industry and industrial sectors using leading-edge technologies, by extending the module to support contact lay-up.

New algorithms enable fiber lay-up simulation (the filament winding process has been available since version 9.1). This realistic simulation lays the fiber, taking into account the initial media, the already laid material and the roller position. Also, the process precisely and separately manages the positioning of the fiber cutting in the ribbon, delivering realistic display of the complete 3D model of the final part (selectively displaying each layer).

From design office to production, NCSIMUL Machine Composites offers users the ability to check their NC programs in 3 steps: NC program analysis, material lay-up simulation, results analysis.

NCSIMUL Machine delivers numerous user benefits:

- Secure NC machine tools throughout the lay-up process;
- Elimination of the risk of program errors;
- Reduction of program validation time;
- Minimization of structure analysis time.

User experience

- **NCSIMUL SOLUTIONS Downloader:** with NCSIMUL Machine 9.2, just like any desktop software, users can know at all times whether their version is up-to-date. The application enables them to download all product updates in the NCSIMUL SOLUTIONS range.

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SSI Releases ShipConstructor 2015

3 September 2014

The release of ShipConstructor 2015 CAD/CAM software is a key part of SSI's new plan to increase flexibility, security, convenience and simplicity for its clients in the shipbuilding and offshore markets.

Catalog Additions and Changes

ShipConstructor 2015 contains a significant augmentation that will immediately be of benefit: the addition of several new catalogs. These catalogs will help users quickly and accurately model components to correct specifications, increasing productivity and quality; both significant concerns of management and employees downstream in production. These catalog additions and changes include the

following XML standard templates:

- Added PipeCatalog-ASME-CarbonSteel.XML
- Added ImperialWeldStandards.XML
- Added MetricWeldStandards.XML

Of particular note are the details related to the addition of the catalog for ASME Carbon Steel Pipe. It covers the standardization of dimensions of welded and seamless wrought steel pipe for high and low temperatures and pressures. The catalog contains a wide range of schedule 40/80 carbon steel pipes, elbows, tees, caps, connectors, crosses and reducers from the ASME B 16.11, 16.5, 16.9 and 36.10 standards. It also includes a set of end treatments (flanges, butt welds, saddles, socket welds, sockolets and plain), including flanges and couplings from Class 150 and 300.

EnterprisePlatform Compatibility

An exciting new capability of ShipConstructor 2015 is its integration with SSI's new EnterprisePlatform line of products. SSI EnterprisePlatform enables the enormous wealth of engineering information available in a product data model such as the ShipConstructor Marine Information Model (MIM), to be efficiently shared with, and easily accessed by, multiple individuals, software applications and production equipment utilized in the shipbuilding process. This includes people, programs and processes outside of the Engineering department. The SSI EnterprisePlatform generates information in the correct format and representation needed for varying use cases and brings a product-focused approach to enterprise-wide availability of engineering data that is cost-effective, scalable, configurable, consistent, and transparent. PublisherLT is the first in the SSI EnterprisePlatform line of products and it is being released at the same time as ShipConstructor 2015.

[See More Detail about SSI EnterprisePlatform PublisherLT](#)

Modernized Licensing Technology

SSI has modernized the licensing technology for ShipConstructor 2015. This means that it will utilize purely software-based licensing rather than hardware locks/licenses. The advantages of this newer technology are:

- Faster turnaround time for replacement of corrupted files.
- State of the art encryption and piracy protection
- Capability for future support of some of the latest licensing capabilities:
 - a. Roaming licensing and the management of roaming licenses
 - b. Fallback/Failsafe/redundant servers
 - c. Check-In and Check-Out of licenses.

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