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CIMdata News

CIMdata to Hold Joint Systems Engineering and Simulation & Analysis Workshop in Europe

28 January 2014

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces that it will hold its first Systems Engineering and Simulation & Analysis workshop in Europe.

Previously, workshops on these two important product development topics have been held with great success in the US. The workshop will take place in Bad Homburg (Frankfurt), Germany on 9 April 2014.

This one-day workshop will focus on two critical areas of model-based engineering:

- **Model-Based Systems Engineering (MBSE):** The evolving paradigm for systems engineering is that digital models augment requirements documents that are typically used to describe product functionality, performance, and other requirements. These models are shared across the domains of mechanical, electrical, software, controls and other physics.
- **Linking Requirements to Product Design:** Companies struggle to define, capture and manage requirements and then to track and validate design performance to those requirements. Digital systems models provide a link between requirements and the realization of the physical design, enabling verification of the requirements and validation of the design.

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Participants in the workshop should expect to gain a solid understanding of current best practices and the work that CIMdata's Systems Engineering and Simulation & Analysis Knowledge Councils have been undertaking. CIMdata's PLM Knowledge Councils conduct in-depth research for both industrial organizations and PLM solution providers, emphasizing strategic as well as practical, tactical options for companies to follow as they further adopt PLM and refine their strategies.

At this workshop you will experience a lively forum in which to discuss real issues. You will also have the opportunity to have your voice heard and make your opinion on this topic count. This event also provides the chance to network with other professionals, CIMdata's subject matter experts, and members of the CIMdata's Systems Engineering and Simulation & Analysis Knowledge Councils. There will be plenty of time for open (and for private) discussions.

Expect to learn more about:

- How systems engineering can be used to dramatically improve upfront capabilities to define product requirements and design product architectures.
- The critical role of simulation to support product development decisions.
- How system models and simulation are used to close the loop between product performance and system requirements.
- Using systems engineering as a strategy to deal with increasing product complexity.
- How shared models enable collaboration and concurrent engineering across domains and disciplines.
- Strategies to manage systems engineering and simulation as strategic capabilities to create a sustainable competitive advantage.
- Creating a vision and roadmap for MBSE.
- The cultural and organizational barriers to implementation and how you can get beyond them.
- Requirements to integrate systems engineering and simulation with other engineering and business applications and data in the PLM ecosystem.

For the complete agenda, please visit: <http://cimdata.com/en/education/knowledge-council-workshops/se-sa-workshop-april-2014/se-sa-2014-agenda>

Attendance is limited, to maintain an interactive workshop atmosphere with open one-on-one discussions and interactions. To learn more about the workshop or to register please go to CIMdata's website: <http://cimdata.com/en/education/knowledge-council-workshops/se-sa-workshop-april-2014>

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Dassault Systèmes Acquires Accelrys: a CIMdata Commentary

31 January 2014

Key takeaways:

- *Dassault Systèmes announced the acquisition of Accelrys, a provider of scientific innovation lifecycle management (SILM) solutions, for \$750 million in cash, 4.6 times revenues*
- *Accelrys' SILM platform provides support for product development in chemistry, biology and advanced materials, and is quite complementary with Dassault Systèmes' PLM strategies and enabling solutions*
- *This acquisition will expand Dassault Systèmes addressable market and deepen their expertise in laboratory-centric product development*

On January 29, Dassault Systèmes announced their intent to acquire Accelrys (NASDAQ: ACCL) for \$750 million in cash. Accelrys is a leading provider of what they term “scientific innovation lifecycle management” software to support development in chemistry, biology and materials. Their data, process, and application platform capabilities include:

- Unified searching
- Scientific data interoperability
- Capacity and resource management
- Sample management
- Lab instrument connectivity and integration
- CAPA and deviation process management
- EH&S focused lab inventory management
- Partner enablement

Accelrys has been acquisitive over the last few years, and 2013 was no different with the acquisitions of Vialis and ChemSW. These helped them expand their industry coverage, a benefit that will now accrue to Dassault Systèmes.

CIMdata has had several calls with Accelrys in the last eighteen months, and their technology is very interesting. Particularly, their view of process is more expansive than in the PLM space. New projects can be built using a set of unit procedures that are supported by tools, best practices, and knowledge bases of content and past experience. Accelrys makes significant revenues selling content databases to support development: “To support their research activities, scientists can access our comprehensive, integrated and cross-referenced collection of factual databases and reference works covering bioactivity, chemical sourcing, molecular properties, synthetic methodology, metabolism and toxicology information. These resources can be accessed easily through the ELN, data management and informatics applications or via the Internet through the Discovery Gate portal and chemicals marketplace.¹” Content

¹ Accelrys, Inc. 10-K for the fiscal year ended December 31, 2012.

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databases provided 8% of total revenues in their last fiscal year. With 14% from services, their revenue mix is consistent with Dassault Systèmes' strategy in that area, as is their high spending on R&D as a percentage of revenues.

Based on our discussions, the Accelrys offering can continue to work in parallel with PLM strategies and enabling solutions, and can also be leveraged by PLM enabling solutions to execute parts of a larger effort. CIMdata sees this as a good move for Dassault Systèmes, one that was not too dear at 4.6 times revenues. It increases Dassault Systèmes' addressable market, and is a good compliment to the ENOVIA offerings, including Enginuity. CIMdata looks forward to learning more about how Accelrys will help Dassault Systèmes reach their strategic objectives and how it will fit into the 3DEXperience Platform.

About CIMdata

CIMdata, an independent worldwide firm, provides strategic management consulting to maximize an enterprise's ability to design and deliver innovative products and services through the application of Product Lifecycle Management (PLM). CIMdata provides world-class knowledge, expertise, and best-practice methods on PLM. CIMdata also offers research, subscription services, publications, and education through international conferences. To learn more about CIMdata's services, visit our website at <http://www.CIMdata.com> or contact CIMdata at: 3909 Research Park Drive, Ann Arbor, MI 48108, USA. Tel: +1 734.668.9922. Fax: +1 734.668.1957; or at Oogststraat 20, 6004 CV Weert, The Netherlands. Tel: +31 (0) 495.533.666.

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Shipbuilding Catalyst: Accelerating PLM Value for the Shipbuilding Industry: a CIMdata Commentary

30 January 2014

CIMdata Commentary

Key takeaways:

- *Companies in shipbuilding and marine are not consistently achieving the maximum value from their PLM investments*
- *To maximize benefits, implementations need to be tailored for and incorporate industry specific best practices and company-specific business needs*
- *Companies need to fully implement the PLM technology they acquire to maximize the value from their investment—there is often a Value Gap between investment potential and return realized*
- *Siemens PLM Software's Shipbuilding Industry Catalyst enables more complete, industry tailored, best practice enabled implementations resulting in a higher return on investment that accrues more rapidly*

Shipbuilders and other players in the marine industry face a number of challenges as they work to adopt modern PLM strategies and solutions to enhance individual, group, and organizational productivity to

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allow more complex projects to be undertaken and delivered profitably. The “Future Fleet” initiatives that are currently driving design of the next generation of ships are resulting in more complex ships and marine structures being conceived to provide improved performance at much lower cost than past ships. This in turn demands new design and construction strategies that place greater stress on the people who have to design and build them. Some areas of particular concern include the increased complexity of ships, the increased speed of design and construction demanded by customers, complex construction strategies, tight budgets, longer in-service life spans, more complex configurations in multi-ship projects, a much more complex and difficult worldwide regulatory climate, and others.

Companies in the marine industry, like companies in other industries, invest in product lifecycle management (PLM) as a means to transform their product development and production strategies and environments, allowing them to create innovative products and services, and improve their overall competitive position. PLM solutions today are more far-reaching than in previous years—providing expanding capabilities in more complex implementations. The implementation of PLM is having a fundamental impact on the way leading shipyards design, produce and sustain the next generation of advanced ships by improving total enterprise productivity, reducing cycle times and lowering the total ownership cost of future fleets. One shipyard in Europe reports increased production rates for mega-yachts from one every two years to 2.5 every two years through its use of PLM. No matter which PLM solution provider a company uses to support their business transformation, the way in which they implement PLM technologies, processes, and solutions has a major impact on the overall value they realize from their investments. Maximizing their PLM return on investment (ROI) and realizing that ROI early is critical to business success. The Siemens Shipbuilding Catalyst enables shipyards to shorten their time to value and boost their return on investment with this transformational technology.

PLM Value Gap

CIMdata research has identified a substantial gap in the value that PLM implementations using similar technologies delivered to different companies, even in the same industry. This research has revealed a widening gap between PLM technologies’ potential capabilities and what actually gets implemented—and therefore the value achieved. This gap reduces the rate at which a company receives a return or positive impact on their PLM investment. The following figure illustrates the gap that exists between the investments companies make in PLM technologies and the value they receive from the implementations that they deploy. We believe that this value gap is larger for companies in the marine industry than for other industries due to the slower adoption of PLM in shipbuilding and marine.

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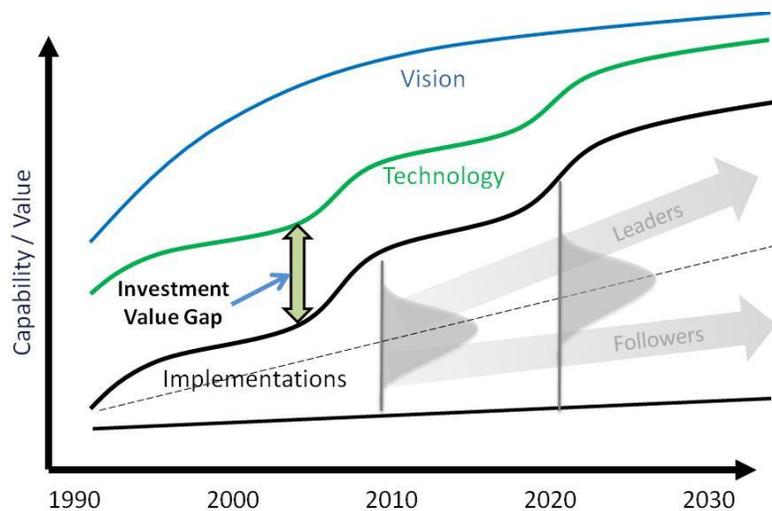


Figure 1—The Value Gap in PLM Implementations

The Value Gap shown in Figure 1 exists for several reasons:

- It takes time, resources, and money to tailor a typical PLM solution to best support a company in the marine industry
- Having to tailor (or in some cases customize) the PLM solutions results in companies not being able to take full advantage of the technology and solutions they have acquired
- Improperly tailored marine solutions require additional cultural changes, user training, and operational changes to take full advantage of new solutions and technology
- It is difficult to take advantage of new releases (e.g., new technology and expanded functionality) if marine companies do major customizations when they implement their selected solutions

Due to the complexities faced by companies in the marine industry, these issues become major constraints to effectively implementing a PLM solution strategy. This decreases the level of benefits and return on investment a company can achieve from PLM.

CIMdata's research also shows that the Value Gap is wider for PLM implementation followers when compared to leaders. Followers consistently receive less value from the time and money they invest in PLM. As leaders continue to get more from their PLM investments, the gap in investment value or business performance will continue to increase.

Leader companies plan their PLM investments and establish an implementation roadmap to meet their needs both for technology and solution acquisition as well as the breadth and depth of deployment. They then more fully implement the PLM technologies they buy and update their business processes to better incorporate industry best practices that the new solutions enable. They also update their implementation as new functionality and technologies are introduced and they expand the use of PLM across their extended enterprise—in other words, they invest and keep up to date.

Followers often focus on automating their current environment and processes, and not creating and adopting more effective and efficient processes (i.e., their “To-Be” state is often just an automated form of their “As-Is” state). They tend to implement only selected capabilities of the acquired solutions both in functionality and scope and do not take full advantage of industry best practices. Customizing the solution to support their old way of working makes it harder to upgrade to new releases.

To narrow the Value Gap, companies need PLM technology and solutions that can help them better plan their implementations, incorporate industry best practices and processes, provide tools and capabilities to help them implement faster, and minimize upgrade time and associated costs. One example of how PLM solution providers are addressing these needs is Siemens PLM Software’s Marine Industry Catalyst.

What is the Shipbuilding Industry Catalyst?

Siemens PLM Software (Siemens) has created its Shipbuilding Industry Catalyst to accelerate customers’ deployments and solution productivity via a set of Marine configured components and best practice guides. The Shipbuilding Catalyst is intended to help a company achieve faster adoption of new and innovative PLM technologies and processes to reach their desired To-Be state and obtain a higher return on their PLM investment both in the short and long term.

The Shipbuilding Catalyst includes:

- A **Business Processes and Practices Guide** that is a reference for PLM across the entire marine product lifecycle and provides guidance on how PLM can best be deployed to impact that lifecycle
- A **Deployment Accelerator** that includes all of the necessary and recommended product selections, recommended configuration procedures, and specific best practices and training to ensure an effective PLM deployment for marine companies
- **Configuration Components** tailored to the marine industry to help implementation teams control the behavior and appearance of the PLM implementation, ensure proper adherence to the desired business processes, and provide the foundation for faster, easier upgrades
- **Program and Project Management** tools and processes packaged for shipbuilding and marine including embedded templates that accelerate ship delivery and facilitate the use of best practices reduce risk and mitigate program delays
- **Configuration Management** capabilities specifically intended to help product developers and others navigate complex product structures containing millions of elements efficiently and quickly and to track configurations of ship-borne systems throughout the lifecycle including operation
- **Ship Design and Engineering** takes advantage of 4GD Design and Engineering Process to accelerate development of ships and offshore structures, driving innovation and facilitating global collaboration, managing 3D models in context of key work groups, such as major ship modules, compartments, systems and locations.

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- **Digital Ship Production** tools to help plan activities in the construction yard helps digitally simulate complete ship assemblies and their associated processes to optimize the use of construction facilities, implement lean practices from the beginning of new programs, and avoid the cost of building expensive physical models across the entire shipbuilding lifecycle
- **Supply Chain Management** processes tailored for the marine industry including support for multi-CAD design content and supplier data exchange, it helps shipbuilders exchange data reliably and synchronizes operations with both suppliers and partners by ensuring the right parts are available at the right time

CIMdata believes that Siemens' Shipbuilding Catalyst approach incorporates many of the elements that are needed to help companies making PLM investments narrow the Value Gap illustrated in Figure 1 and get more from their PLM investment.

Benefits of the Shipbuilding Industry Catalyst

The Shipbuilding Catalyst is intended to enable a company to implement a PLM solution suite that is tailored for their business. It provides built-in marine industry best practices and synergistic best practices from other industries applied to the marine industry. The catalyst also includes training guides and support services. Catalyst best practices, processes, and pre-configured components should help eliminate much of the customization that companies have been doing to their PLM environments to support shipbuilding and marine activities. One of the major issues in implementing PLM is moving from a company's current way of operating to a new "To-Be" environment and methods of working. By incorporating industry best practices, the Marine Catalyst can help a company more easily define their tailored "To-Be" solution and deploy it more quickly and completely without application customization. The Marine Catalyst provides support across the organization and lifecycle (not just for product design). An example is providing change process acceleration—from the shipyard back to the design office.

The Shipbuilding Catalyst will also help implement the new 4GD Design and Engineering Process capability that is concurrently being introduced by Siemens PLM Software. The 4GD Design and Engineering Process provides organizations trying to cope with products that have very large numbers of design elements across the whole systems engineering gamut. Using typical technologies, it is difficult to initially define configuration structures, and then gather all of the design items into those configurations to support the work that has to be done. This is complicated by the facts that many different views of the same data are required by different roles throughout the product lifecycle (e.g., mechanical, electrical, procurement, production planning, support, etc.) and that people may want to view structures that were not preconceived (e.g., everything contained in a room or group of rooms, all pumps and valves in a machine with their mountings, or everything forward of a particular frame). Often these configurations can't reasonably be predefined without massive amounts of effort.

The 4GD Design and Engineering Process approaches the problem in a different way from traditional solutions. It essentially eliminates the need to create pre-defined structures for every view of data that will be desired by product developers and other product lifecycle participants. It treats every design item as a base object that can be configured on the fly by applying rules or filters in recipes, such as "find everything that is located from 20cm forward of 'Frame A' to 20cm aft of 'Frame B'" or "find all

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components in the hydraulic system that are within 10 cm of the fuel system” or “find all parts match a set of specifically selected, user-defined criteria.” This allows users to see just what they want to see to do their work, in the context they wish, without having to have pre-configured the structure before searching and without being limited to a single organization of the product data. This technique allows product data qualified with options, variants, and effectivity to be defined and dynamically configured more flexibly than with pre-configured structures. It removes the burden from the product designers of defining complex structures, while allowing anyone to find data from across the entire product organized in the way they need it for their own tasks. The recipes developed by any user can be saved and replayed to facilitate future work.

By providing a set of configurable components designed to work with all parts of Siemens PLM Software’s Shipbuilding industry solutions (Teamcenter, NX, Tecnomatix, viewers, etc.), the Shipbuilding Catalyst helps leverage more of the technology more quickly, getting more value faster, and narrowing the Value Gap.

Another aspect of the Shipbuilding Catalyst is to help “future proof” a company’s PLM implementation. Once a solution suite is implemented using the Shipbuilding Catalyst, the company should be able to incorporate and adopt technology jumps, as shown in Figure 1, with significantly less time and cost.

Summary

The increasing complexity of ships and other marine structures, the increased speed of design and construction demanded by customers, tight budgets, longer in-service life spans, more complex configurations in multi-ship projects, a much more complex and difficult worldwide regulatory climate, and other factors continue to put high demands on companies to improve their product development environment to take more advantage of modern practices such as those offered by PLM.

Shipbuilders and other marine companies require solutions that are tailored for the special needs of the marine industry that they can implement quickly so that their investment in PLM can help them achieve and maintain a competitive position. The value is delivered by the full Siemens PLM Software shipbuilding solution suite (not only by the Shipbuilding Catalyst)—the catalyst helps you get to the value more easily and quickly.

CIMdata’s view is that 4GD Design and Engineering Process leading the way to solutions that can manage and present extremely large and complex product definition structures much more flexibly and faster than existing product structure management solutions.

CIMdata believes that Siemens’ Shipbuilding Catalyst can help narrow the Value Gap by decreasing the time it takes to configure and deploy a PLM solution for companies in the marine industry. Additionally the Shipbuilding Catalyst also allows companies to reduce or eliminate over configuration of their PLM solution so that it will be faster and less expensive to upgrade over time.

Companies that are looking to improve their ability to compete for the “Future Fleet” and to deploy and

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maintain marine focused, highly valuable PLM solutions should evaluate Siemens PLM Software's Shipbuilding Catalyst.

About CIMdata

CIMdata, an independent worldwide firm, provides strategic management consulting to maximize an enterprise's ability to design and deliver innovative products and services through the application of Product Lifecycle Management (PLM). CIMdata provides world-class knowledge, expertise, and best-practice methods on PLM. CIMdata also offers research, subscription services, publications, and education through international conferences. To learn more about CIMdata's services, visit our website at <http://www.CIMdata.com> or contact CIMdata at: 3909 Research Park Drive, Ann Arbor, MI 48108, USA. Tel: +1 734.668.9922. Fax: +1 734.668.1957; or at Oogststraat 20, 6004 CV Weert, The Netherlands. Tel: +31 (0) 495.533.666.

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Acquisitions

Dassault Systèmes and Accelrys to Join Forces

30 January 2014

Dassault Systèmes and Accelrys, Inc., today announced the signing of a definitive merger agreement for Dassault Systèmes to acquire San Diego-based Accelrys, Inc. (Accelrys). Under the terms and conditions of the merger agreement, Dassault Systèmes will make an all cash tender offer for all of the outstanding shares of Accelrys common stock at a price of \$12.50 per share, without interest, representing a fully diluted equity value for Accelrys of approximately \$750 million. Dassault Systèmes intends to acquire any shares of Accelrys not tendered into the tender offer, via a merger that will be effected as soon as possible after the closing of the tender offer.

Combining with Accelrys will enrich the molecular chemistry capabilities from discovery to manufacturing and regulatory requirements of Dassault Systèmes' formulation-based industry offerings such as life sciences, consumer packaged goods, high tech and energy, as well as advanced manufacturing industries.

“With Max Carnecchia and his teams, we share the same passion for enabling scientific innovation and are confident that together, leveraging the great Accelrys assets, we will deliver a unique and unmatched scientific PLM solution.” said Bernard Charlès, President and CEO, Dassault Systèmes. “The World demands a new paradigm for sustainability where chemistry, materials and biology meet. This is what the virtual universes enabled by Dassault Systèmes are delivering, capable of harmonizing products, nature and life, from imagination to industry solution experience.”

“This merger represents a unique opportunity to accelerate Accelrys' journey by leveraging Dassault Systèmes' PLM environment and 30 years of unmatched discipline in executing for improved industrial

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performance.” said Max Carnecchia, President and CEO of Accelrys. “With our passionate and talented teams, Accelrys is convinced that joining Dassault Systèmes will deliver transformational value to our customers by combining science-based innovation with product lifecycle management.”

Accelrys’ list of 2,000 customers includes many of the Fortune 500 companies, with major industry players in pharma/biotech, consumer packaged goods and chemical including Sanofi, Pfizer, GSK, AstraZeneca, Du Pont, Shell, BASF, P&G, Unilever and L’Oréal.

The Board of Directors of Accelrys has unanimously approved the transaction. The transaction is expected to be completed during the second quarter of 2014, subject to Accelrys shareholders tendering a majority of Accelrys’ outstanding shares in the tender offer to be launched in the coming days, receipt of certain regulatory approvals and other customary closing conditions.

Foros acted as financial advisor and Cravath, Swaine & Moore LLP provided legal advice to Dassault Systèmes. Accelrys was advised by Morgan Stanley & Co. LLC, and by Paul Hastings LLP for legal advice.

Dassault Systèmes will host a conference call Thursday, January 30, 2014 at 7:00 AM Pacific time / 10:00 AM New York time / 3:00 PM London time / 4:00 PM Paris time. The conference call can be accessed via <http://www.3ds.com/investors/>. Please go to the website at least 15 minutes prior to the beginning of the conference call to register, download and install any necessary audio software. The conference call will be archived for 30 days.

Dassault Systèmes will report its 4th quarter and full year 2013 earnings on Thursday, February 6, 2014. Accelrys will report its 4th quarter and full year 2013 earnings on Tuesday, February 25, 2014.

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Mentor Graphics acquires Mecel Picea AUTOSAR Development Suite

31 January 2014

[Mentor Graphics Corporation](#) today announced it has strengthened its automotive software solution by purchasing the AUTOSAR assets, including the [Mecel Picea AUTOSAR Development Suite](#), from Mecel AB. The acquired assets complement the existing automotive software solution from Mentor including the [Volcano™ AUTOSAR products](#), [Mentor® Embedded Hypervisor](#), and [Mentor Automotive Technology Platform \(ATP\)](#), which enables [Linux®-based automotive solutions](#), including [GENIVI-compliant infotainment \(IVI\) solutions](#). The Mentor automotive software solutions enable a wide range of subsystems, including secure, homogenous and heterogeneous multicore and single-core ECUs.

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Transoft Solutions Completes Acquisition of Simtra AeroTech

29 January 2014

Transoft Solutions Inc., announced that it has acquired Simtra AeroTech AB, a supplier of software for airport and road designers. Both companies are pioneers in the transportation industry with CAD based software solutions such as AutoTURN and AeroTURN (Transoft Solutions) and PathPlanner (Simtra). Terms of the transaction were not disclosed.

Located in Gothenburg, Sweden, Simtra has an international client list of transportation and aviation consultants, engineers and airport planners. Throughout its rich 20+ year history, their mission has been to develop high quality airport planning and design software solutions. Over the years Simtra has established a reputation as a market leader in its field.

“This is an important acquisition for both companies and we welcome Simtra employees and customers to Transoft,” said Milton Carrasco, President and CEO of Transoft Solutions Inc. “The technologies present in our companies’ products, independently, are truly remarkable and the possible synergies make for an exciting future for us and our clients. This is an important step for Transoft in continuing to build productivity-enhancing software for the transportation industry.”

Both Transoft and Simtra have a long-history of R&D and the union further solidifies the company’s mission to provide solutions that allow its customers to design with the utmost confidence.

“Our goal in merging the two brands under one umbrella is to leverage our resources in order to raise the benchmark for aviation software which, before now, was resource challenged,” said Carrasco. “But even beyond the merging of our world class technologies, we, at Transoft, recognize the importance of maintaining the highest level of support and care for our customers, new and old. As part of that commitment, we fully intend to maintain our attractive and equitable licensing practices moving forward.”

“We are confident that Simtra’s acquisition by Transoft Solutions is positive not only for both companies’ existing customers but also for the engineering community as a whole,” said Ben van Leest, Managing Director of Simtra AeroTech AB. “We share the same vision and by combining our expertise and resources we will be able to provide an excellent platform for refining existing products as well as expanding the portfolio with new solutions.”

The integration of Simtra’s business activities into the Transoft Solutions organization will ensure that its customers experience a seamless transition and a continued high quality of customer care and service, which continues to be one of Transoft’s hallmarks of success.

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Company News

13th Annual TopSolid Seminar in Prague

31 January 2014

The 13th annual TopSolid seminar which took place in Prague from the 15th to the 18th of January gave Missler Software the opportunity to share with seminar participants the good news of its best ever sales results in the history of the company. The announcement of company turnover exceeding €27M for the first time ever gave an upbeat start to the company's annual seminar whose theme was "Global business for local impact".

200 people, both internal staff and TopSolid resellers from all over the world, came together to look back over 2013 and more importantly to look at what was in store for 2014 during 2 intensive days of meetings, workshops and individual meetings with internal Missler Software Management, Sales, Marketing and Development/Technical teams.

The Missler Software Management team confirmed its desire to strengthen existing reseller partnerships internationally and to create new partners in 2014. The creation of 3 business units in America, Europe and Asia was announced during the seminar plenary session. Missler Software's strategy is in fact to foster tighter business links with its customers and resellers by developing a more local business model.

The seminar was the ideal occasion for the TopSolid product managers and application engineers to present TopSolid 2014 to the French Sales team and international resellers thanks to several presentations and product demonstrations.

The seminar concluded with a gala award ceremony where the most successful French and international Sales Teams were rewarded. It was time to thank all Missler Software and TopSolid resellers for their active participation and contribution in making 2013 the best year in the company's history. With the release of TopSolid 2014 in the upcoming months promising numerous new functions which will generate significant time gains for TopSolid customers, Missler Software is optimistic about the coming year.

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Altium and Nimbic Announce Partnership and Showcase New Power Integrity Product at DesignCon 2014

30 January 2014

[Altium Limited](#) along with [Nimbic](#) announce a new development partnership. This will make Nimbic

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the newest developer partner to join Altium's newly formed Altium Developer program. The agreement consists of a strategic alliance between the two companies and the introduction of a new power integrity solution - Altium PI-DC.

Altium PI-DC gives users the ability to validate DC voltage and current performance in their designs before prototype and production. Now, designers can avoid issues with power delivery and are better able to identify potential failure points. This includes high via currents that could cause fusing, or high resistance neck-down regions resulting in excessive voltage drop.

Built from the ground-up, Altium PI-DC is based on Nimbic's specialized 3D full-wave electromagnetic solver, and is designed to address the requirements of large-scale power integrity problems. Unlike other solutions in the market, the Altium PI-DC delivers fast solution times without compromising on accuracy.

"Nimbic views this relationship with Altium as a significant opportunity to expand our market presence," said Bala Vishwanath, Chief Marketing Officer of Nimbic. "With Altium's PCB knowledge and Nimbic's Electromagnetic Simulation expertise, we have the ability to raise the bar and introduce solutions that are no longer cost prohibitive allowing companies not only to increase productivity, but also design for reliability."

Altium PI-DC integrates into Altium Designer as an optional extension, giving engineers a seamless environment for DC analysis. Nets for analysis are selected in Altium Designer with DC voltage drop and current density results displayed directly over the layout. This allows a designer to interactively identify and fix issues with no guess work about what layout structure might be causing the issue.

"BGAs have hundreds of power and ground pins with numerous supply rails requiring complex networks of capacitors to manage "pure" power. The sophistication of the PDN (power distribution network) requires engineers to be able to effectively analyze and make corrections early on in the design process," said Daniel Fernsebner, Director of Technical Partnerships for Altium. "This partnership with Nimbic introduces a robust integrated power integrity solution to our customers."

Altium PI-DC will be released later this quarter and is set to be presented at DesignCon 2014 in Santa Clara. Attendees are encouraged to stop the Altium booth #516 for a first hand demonstration.

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Dassault Systèmes Opens SOLIDWORKS World 2014 – Design in the Age of Experience

27 January 2014

Dassault Systèmes today opened its 16th Annual [SOLIDWORKS World](#) conference at the San Diego Convention Center in San Diego, California (USA). SOLIDWORKS World 2014 continues through

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Wednesday, January 29, 2014. Beginning today, partners, industry leaders and over 4,500 of the world's most talented and innovative design and mechanical engineers will share their stories, explore new ideas and become inspired to take their projects to the next level.

In the Age of Experience, the world of design has changed: more social, more conceptual and collaboration is critical. SOLIDWORKS World 2014 will highlight customers who have used SOLIDWORKS design applications to open new horizons for design and business.

Presenters include:

- [Hugh Herr](#), the head of Biomechatronics Research at MIT's Media Lab
- [eatART Foundation](#), an education charity that fosters art research and energy awareness
- [Bo-Dyn Bobsled Project](#), developer of the 2014 US Olympic bobsled
- Professors Max Lizarraga and Miranda Jerry of [Mt. San Antonio](#) College, where the Certified SolidWorks Associate certification test is the final exam

In addition, SOLIDWORKS World 2014 features presentations from customers who have been using the new SOLIDWORKS Mechanical Conceptual application on the 3DEXPERIENCE Platform since June 2013. Dassault Systèmes will demonstrate the [SOLIDWORKS Mechanical Conceptual](#) social design environment that advances conceptual design. With this new application, all stakeholders can quickly capture and develop their ideas digitally and engage their communities to create winning concepts.

Other highlights of SOLIDWORKS World 2014 include:

- Demonstrations of the recently launched SOLIDWORKS 2014 design portfolio, including [3D CAD](#), [Simulation](#), [Product Data Management](#), [Technical Communication](#) and [Electrical Design](#), that furthers the ability of companies to design without limits
- Customer stories and products from industries ranging from manufacturing and medical instruments to consumer electronics and renewable energy
- Sessions showcasing modeling essentials, design automation, productivity applications and other topics designed to help users work faster and be more efficient;
- More than 200 in-depth [technical training sessions](#), many of them hands on, covering topics such as "Sheet Metal for the Casual User," "The Art of the Swoopy Part," and "Electrical 3D – Harnessing;" and
- [The Partner Pavilion](#), featuring more than 100 hardware and software vendors who work with SOLIDWORKS applications to deliver new business benefits.

"At SOLIDWORKS World we focus on showcasing amazing customers who epitomize the creativity and passion of the SOLIDWORKS community. This year we will also share a new application, Mechanical Conceptual, that will provide our users with the freedom to design the way they want, helping them quickly turn inspiration into reality," said Bertrand Sicot, CEO, SOLIDWORKS, Dassault Systèmes. "I'm looking forward to showing off SOLIDWORKS Mechanical Conceptual and sharing how it has already transformed the conceptual design process."

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For more information about SOLIDWORKS World 2014, visit [SOLIDWORKS website](#).

Video demonstrations of SOLIDWORKS Mechanical Conceptual are available at [SOLIDWORKS blog](#).

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Frost & Sullivan Honors Aras EPLM with Global Product Leadership Award in Product Lifecycle Management

28 January 2014

Aras[®] announced from the exhibit floor of SolidWorks[®] World 2014 (booth #434) that Aras Enterprise PLM has received the prestigious Global Product Leadership Award in PLM from Frost & Sullivan. Aras Enterprise PLM (EPLM) extends SolidWorks Enterprise PDM (EPDM) providing full-featured product lifecycle management, process automation and cross-functional collaboration throughout the company and across the supply chain.

Frost & Sullivan is an international growth partnership firm with over 50 years of experience working with Global 1000 companies. Frost & Sullivan recognizes companies in a variety of regional and global markets for demonstrating outstanding achievement and superior performance in areas such as leadership, technological innovation, customer service, and strategic product development. For more information please visit <http://www.frost.com>

In determining the winner of the Global Product Leadership Award in PLM, Frost & Sullivan benchmarked Aras's performance against key competitors, evaluating Aras EPLM on the following criteria:

- Product Features/Functionality
- Innovative Element of the Product
- Product Acceptance in the Marketplace
- Provides Customer Value Enhancements
- Product Quality

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IMAGINiT Technologies Announces Platinum Level Partnership With Canadian Construction Association

28 January 2014

Rand Worldwide announces their IMAGINiT Technologies division has elevated their long term relationship with the Canadian Construction Association (CCA) and joins them this year as a Platinum level partner. In addition, IMAGINiT will be hosting a business session entitled 'Who's driving the boat:

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industry vs. technology' at the CCA's 2014 annual conference being held at the Westin Playa Bonita in Panama, March 8-14, 2014.

"We are pleased to have IMAGINiT Technologies onboard as a Platinum level sponsor this year," says Serge Massicotte, 2014 conference chair and incoming 2014 chair of the Canadian Construction Association (CCA) board of directors. "Our members increasingly leverage technology in their work. IMAGINiT Technologies' understands the intersection of technology and the modern construction industry. I think the panel session -- Who's Driving the Boat: Industry vs. Technology - sponsored and moderated by IMAGINiT will be very interesting. We at CCA look forward to their contributions at our annual conference and throughout the course of the year."

IMAGINiT and the CCA have partnered together for four years with the same goal in mind, helping to drive innovation and advance awareness of the efforts of non-residential construction companies working across Canada. With experts and offices located throughout Canada, IMAGINiT brings a unique perspective on how technology has revolutionized the industrial, institutional, commercial and civil engineering construction industry across the country. IMAGINiT's session at the CCA's annual conference will leverage this expertise and highlight the benefits associated with the adoption of technology across the construction industry.

"The challenge for companies is determining how they can successfully ride the wave of growth that's happening in the Canadian construction industry today even in the midst of a labor shortage," says Tim Johnson, senior vice president, IMAGINiT Technologies. "In order to take advantage of the opportunities created by organic growth and the boost in infrastructure funding from the federal government, companies need to harness new processes and supporting technologies, including building information modeling (BIM) and integrated project delivery (IPD)."

Beyond the annual conference, IMAGINiT's partnership with the CCA strives to help educate members via joint webcasts, newsletters and other channels of communication. IMAGINiT will also have representation with the Institute for BIM in Canada (IBC) and the Construction Industry Leaders Forum where they will contribute and provide thought leadership that drives the adoption of BIM and IPD across Canada.

"Our goal is to provide construction firms with the information they need to make solid business decisions about their technology and how that investment can positively affect the bottom line," continues Johnson. "Knowing what parts of their business may be impacted by change is key to being able to move forward and win business."

As demand for construction projects in Canada continues to grow, tight labor markets are increasingly reliant on technology. New methodologies such as BIM, integrated project delivery and lean construction are also impacting the Canadian industry. IMAGINiT Technologies proprietary software such as IMAGINiT Clarity and IMAGINiT Utilities for Civil 3D help companies in the construction industry to streamline projects and increase collaboration so that projects can be delivered faster and more economically.

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JETCAM continues Global Expansion with JETCAM Pacific Pty Ltd

24 January 2014

After the announcement of five new dealerships in 2013 JETCAM International s.a.r.l. continued their expansion with the formation of JETCAM Pacific Pty. Based in Sydney, Australia, the company will offer sales and service for all existing and prospective companies in the sheet metal and composite manufacturing sectors.

JETCAM already has a strong user base in Australia, driving virtually every CNC punch, laser, combination, waterjet, plasma, oxyfuel, router and knife cutter available today. JETCAM Expert is suitable for all companies - from small sheet metal shops up to multi-national companies. JETCAM's CrossTrack manufacturing suite bridges the gap between the shop floor and ERP system by providing unparalleled traceability and control.

Said Martin Bailey, General Manager of JETCAM International s.a.r.l.; "Now that Australia's post-recession roots are taking firm hold we want to help manufacturers take their CNC efficiency to the next level. Last year we announced several new features, and 2014 will continue with our powerful Automatic Sheet Processing functionality, plus a new streamlined interface. We also released a new product, JOC Premium Automation, which allows processes such as nesting and CAD import to be performed remotely."

For more information visit www.jetcam.com or www.jetcampacific.com.

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Major Product Enhancements Mark 2013 as a Banner Year for Knovel

27 January 2014

2013 was a year of significant change for Knovel. Highlights include the acquisition by Elsevier announced last January, the launch of a new Knovel platform and significant content growth. Historically focused on being the first place engineers turn for trusted answers, Knovel continues to execute on this vision to meet the needs of today's engineer.

With a focus on the user experience, Knovel's new platform, launched in September, features advanced search and simplified navigation that ensure engineers can more easily discover the content they need and readily use it in their workflow. The overall experience is seamless, enabling engineers to use Knovel in conjunction with other engineering applications, customer knowledge bases and enterprise software tools. Interactivity is a core part of Knovel's offering, and in 2013, Knovel substantially improved the user interface and functionality of its Equation Plotter, Graph Digitizer, Graph Plotter, Phase Diagram Viewer and Parameterized Graph tools.

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“The new Knovel platform has a fresh look, is easy to navigate, and the improved data search is particularly impressive and user-friendly,” said Linda Fawcett, Information Manager for AMEC, the international engineering and project management company. “Knovel is already well embedded in AMEC and the new platform is opening up the content to our engineers in an even more accessible way.”

In 2013, Knovel added more than 20 new content partners, including Taylor & Francis and ICE Publishing. Knovel added two new subject areas and the content collection grew more than 20 percent across the board, and at least 10 percent in existing subject areas. Knovel’s cloud-based application integrates technical information from more than 100 engineering publishers and societies with analytical and search tools used by engineers worldwide

“Elsevier has long valued the important role that Knovel plays in the community of engineers worldwide, and when we acquired Knovel last year, we committed to the high standards that the Knovel team set for delivering value to customers and continually improving the user experience,” said Ella Balagula, Senior Vice President, Engineering and Technology Markets at Elsevier. “A year later, we’ve achieved significant milestones. I am proud of the team’s focus, drive and accomplishments that pave the way for more successes in 2014.”

Knovel continues to support the engineering community through a variety of programs and initiatives that encourage life-long learning and career advancement. More than 4,400 students worldwide participated in the 2013 Knovel University Challenge. This program encourages students to get hands-on experience with engineering resources available to them. Through sponsorship of Engineers Without Borders (EWB-USA), Knovel provided a grant to support the work of a University of South Carolina student project in Ecuador, and two additional grants are planned for 2014 via Knovel’s ongoing sponsorship of EWB. The 2013 Knovel Virtual Conference featured a variety of presentations from engineering leaders and industry experts to support career development and awareness of Knovel.

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New Channel Partners Added to Support Expansion of solidThinking Inspire® and solidThinking Evolve® Usage Worldwide

30 January 2014

[solidThinking](#), Inc. announced that it has recently added seven new companies to its [global network of channel partners](#). These partners will provide solidThinking Inspire and solidThinking Evolve software and support to customers in Brazil, Germany, Italy and the United Kingdom.

"We are looking forward to a prosperous 2014 with our new partners," said Jim Hassberger, President of solidThinking. "Adding additional partners around the world will allow us to build on the Inspire and Evolve momentum that grew during 2013. We are happy to welcome them to the solidThinking

community."

The following companies will provide added value to solidThinking customers in terms of knowledge, technology, and service:

- [Eng-IT](#) (UK)
- [Global Informatica](#) (Italy)
- [MechWorks Tecnologia](#) (Brazil)
- [MR Services](#) (Italy)
- [Softwarebox](#) (Germany)
- [Unit Trend](#) (Italy)
- [Weisoft](#) (Italy)

"We are excited by the opportunity presented by the solidThinking Inspire technology," said Jose Solinho, owner of MechWorks Tecnologia in Brazil. "The value of structural optimization that offers ease-of-use and interoperability with all major CAD tools, enabling product teams to design lightweight in, instead of engineering weight out, will appeal to both existing and new customers."

Michele Mozzo of MR Services in Italy said, "solidThinking Evolve is a fantastic 3D modeling tool for the creative community. A tool that provides both organic surface modeling and parametric control gives designers the modeling freedom they require, while enabling the fast design exploration they truly desire. We're anticipating significant demand for Evolve in our region."

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solidThinking Inspire® 9.5 Finalist for 2013 Golden Mousetrap Award

30 January 2014

[solidThinking](#), Inc. announced today that its [solidThinking Inspire](#) software has been named a finalist in the Design Tools category of the Design News 2013 [Golden Mousetrap Awards](#).

[Design News](#) is a publication and community of design engineers. The finalists for this year's Golden Mousetrap award were selected by Design News' Advisory Board and Content Team. Of the many submissions, 55 finalists spanning 15 different categories were selected.

"We are honored that Design News has recognized solidThinking Inspire as a finalist for the best design tool Golden Mousetrap Award," said Jim Hassberger, President of solidThinking. "We are committed to radically improving the product design process through the introduction of ground-breaking tools such as Inspire."

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solidThinking Inspire accelerates the product design process by generating the ideal shape for a structure, given its package space and the loading it must support. The software is easy to learn and works with existing CAD tools, helping design parts right the first time, eliminating costly trial and error.

The Golden Mousetrap Awards aim to recognize innovation and new products in four main categories; electronics and test, automation and control, design tools, and materials and assembly.

The winners of the 2013 Golden Mousetrap Awards will be announced during a live ceremony held in conjunction with the [Pacific Design & Manufacturing Show](#) on Tuesday, February 11th in Anaheim, California.

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Tata Technologies Brings Extensive Engineering Course Library to OpenSesame

29 January 2014

[OpenSesame](#) is proud to introduce a partnership with premium technology and engineering training provider, Tata Technologies. As a growing leader in online training, OpenSesame will help bring i GET IT® training courses to a new audience of users.

[Tata Technologies](#) is a company of innovators and specialists in the design engineering space who apply cutting-edge technology to provide a competitive advantage to customers in the manufacturing sector. i GET IT® has uploaded initially [60 courses](#), covering training for engineering software such as: AutoCAD, Autodesk Inventor, SolidWorks, Siemens PLM NX, GD&T, Plastic Part Design, CATIA V6 and others. Additional courses will be uploaded over the coming months to further grow the training offering.

“Creating a partnership with OpenSesame will allow us to reach a larger audience that is looking for online training for engineers,” said Brad Engholt, Technical Product Manager for i GET IT®.

“OpenSesame’s solution made it incredibly easy to upload our courses and make them available for sale.”

The tremendous growth of the technology sector means engineers are in high demand. “We are seeing an increasing need for quality, up-to-date engineering and design courses,” said Spencer Thornton, Director of Content for OpenSesame. “The i GET IT® courses will help our customers bridge current skill gaps for new employees, as well as keep current employees current as technologies change.”

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TCS Recognized Again as One of the Achievers 50 Most Engaged Workplaces™ in the United States
31 January 2014

Tata Consultancy Services, (TCS), announced, today, that, for the second year in a row, it has been recognized as one of the Achievers 50 Most Engaged Workplaces™ in the United States and honored as one of the top companies in [Canada](#). The annual award celebrates employers that demonstrate a strong, consistent commitment to their employees and a high level of innovation in regularly engaging them.

The Achievers 50 Most Engaged Workplaces™ award is given each year to the companies and organizations that display the best leadership and innovation in engaging their workplaces. Judges evaluate each applicant based on the Eight Elements of Employee Engagement™: Communication, Leadership, Culture, Rewards & Recognition, Professional & Personal Growth, Accountability & Performance, Vision & Values, and [Corporate Social Responsibility](#).

“The companies we honor as the Achievers 50 Most Engaged Workplaces™ have made employee engagement, alignment and recognition a very high priority because they understand how critical it is and what a competitive advantage it provides,” said Achievers CEO, Patrick D Quirk. “These companies serve as role models for other businesses by creating an engagement strategy that cultivates a high-performing workplace.”

This year, the panel of 14 judges included various academicians and thought leaders on employee engagement, and representation from organizations such as the Society for Human Resource Management (SHRM), Human Resources Professionals Association (HRPA), Human Capital Institute (HCI) and Northern California HR Association.

“TCS is honored to again be recognized as one of Achievers 50 Most Engaged Workplaces™, this time across North America,” said Surya Kant, President, [North America](#), [UK](#) and [Europe](#), TCS. “We believe that our workforce is the most important component in delivering innovative services and solutions to our clients around the world. As we begin a new year, we look forward to maintaining and further developing our steadfast commitment to recruiting and retaining the best talent, instilling a dedicated work ethic, camaraderie amongst fellow employees and giving back to the local communities we serve.” Recipients of the Achievers 50 Most Engaged Workplaces™ Awards will be honored at award galas on March 6, 2014 in Toronto and on April 2, 2014 in San Francisco.

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Events News

AVEVA World India Plant User Meetings Open for Registration
29 January 2014

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AVEVA announced the opening of registration for the AVEVA World India Plant User Meetings, which are being held in Bangalore on 5 February 2014 and in Chennai on 7 February 2014. The events are organised for engineers and designers who operate AVEVA software, both in Engineering, Procurement and Construction companies and in Owner Operators in the plant industries. The main aim of these meetings is to improve users' expertise and overall project efficiency by providing product knowledge and insights that can be applied to real-world, practical situations.

This year, the AVEVA World India Plant User Meetings will consist of two single-day events, in Bangalore and Chennai, to enable the maximum number of AVEVA users to benefit from the exchange of information. Each event will follow the same full agenda, focusing on the technical features and functions of AVEVA's Integrated Engineering and Design solution. The events comprise a series of technical workshops aimed at updating AVEVA users on the most recent software upgrades of [AVEVA PDMS™](#), [AVEVA Everything3D™](#) (AVEVA E3D™) and other applications from the [AVEVA Plant portfolio](#).

'The AVEVA World India Plant User Meeting is a unique opportunity to see demonstrations of our latest technologies, including AVEVA E3D, and to learn how AVEVA solutions are being used in different industry sectors,' explains Navtej Garewal, Senior Vice-President, AVEVA India. 'Each workshop enables AVEVA software users not only to learn new ways to optimise projects, workflows and operations, but also to share their own experiences with other colleagues. Interactive discussions with our team will provide opportunities to raise any technical queries and help maximize the value that our software provides to our customers' increasingly complex engineering projects.'

AVEVA India customers from the plant industry can register online at: www.avevaworld.com/india.

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Cimatron's "Mission Critical" Software on Show in Italy

30 January 2014

[Cimatron Limited](#) announced that its CimatronE and GibbsCAM software will be demonstrated at the Fornitore Offresi trade show, Lecco, Italy, from February 6-7, 2013.

"Italian industry is a world leader in the design of high quality goods," said Mr Gianluca Renzi, Managing Director of Microsystem, Cimatron's Italian subsidiary. "However, local manufacturers are under increasing pressure to find efficiencies in the face of overseas competition, and the challenge remains to find those efficiencies without sacrificing quality.

"Our signature software solutions, CimatronE and GibbsCAM, continue to meet manufacturers' needs in this respect, offering mission-critical capabilities that streamline mold, die and discrete part design, and provide NC programming efficiencies and optimized machining.

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"Manufacturers also receive the highest level of support and training for which Microsystem has been renowned for over 30 years, ensuring that our customers' operations are always up and running."

Among the benefits of CimatronE to be demonstrated at Fornitore Offresi will be its built-in CAD/CAM integration for mold and die makers, providing full associativity across the manufacturing process, from quoting through design and delivery. This ensures immediate and hassle-free communication between designers, programmers and the shop-floor, and the error-free transmission of data. It also provides significant time savings, facilitating concurrent engineering and the ability to begin machining mold and die components early on in the design process.

As a full-featured CAM system, GibbsCAM provides powerful capabilities while supporting ease of use. One of the software's outstanding benefits to be emphasized at Fornitore Offresi will be its huge library of proven post processors, able to power any Multi-Task Machine (MTM) available on the market today.

The CimatronE and GibbsCAM display at Fornitore Offresi will be held at the booth of Microsystem, Hall B, booth 314.

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CimatronE & GibbsCAM powering Russian aircraft manufacturing

27 January 2014

Cimatron Limited announced that its CimatronE and GibbsCAM software solutions will be demonstrated at the Interplastica trade show, Moscow, Russia, from January 28-31, 2014.

Among the large number of tool shops and manufacturers across Russia that use CimatronE and GibbsCAM is the CAD/CAM Center at the Samara State Aerospace University, a leading contractor for the manufacture of aeronautical parts.

The Center uses both software solutions to manufacture a wide range of complex aeronautical parts on its continuous milling and mill-turn machines for its commercial clients. Its production range includes impellers, turbine blades, hydraulic cylinders, landing gears, mold cores and cavities, and 3-5 axis discrete parts.

Dr Oleg Surkov, the Center's director and an associate professor of aircraft engine manufacturing at the University, noted:

"The Center's tasks are many and varied and the CAD/CAM programs we use have to be both reliable and robust given the fine detail involved in producing often complex, high quality aircraft components. CimatronE and GibbsCAM successfully address our needs, providing us with excellent machining results within our often tight timeframes.

“One of the major benefits of CimatronE is its 3+2 axis programming, especially multidirectional stock. This enables us to machine parts in the one set-up, helping to maximize the use of our machines and reduce the possibility of mistakes. It’s also saved us hours in programming and machining time.

“GibbsCAM is successfully used for our mill-turn operations. We’ve also benefitted greatly from the optimized toolpaths that we can create in the software, thanks to its true simulation and full control over the machining process. GibbsCAM also provides us with a reliable library of post-processors for our machining tasks.”

The CimatronE and GibbsCAM demonstrations at Interplastica will be held at the booth of reseller Bee-Pitron, hall 8, booth 83B02.

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Delcam to show new PowerSHAPE Pro for re-engineering at Develop3D Live

31 January 2014

Delcam will demonstrate the latest release of its PowerSHAPE Pro software for design, modelling for manufacture and reverse engineering at the Develop3D Live conference and exhibition to be held at the University of Warwick on 15th April. The 2014 R2 release includes a range of new functionality for the design of products and tooling. In particular, the new version introduces powerful new tools to make re-engineering complex parts from scanned data faster and easier. For more details and to register for Develop3D Live, please go to www.develop3dlive.com

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

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

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

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

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

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

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

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

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

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

PowerSHAPE Pro models can be simplified with a new option that merges fragmented faces into a single, continuous surface. This simplification makes subsequent operations, such as adding draft to

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complex regions of the model, much easier and also improves the operation of many of the direct modelling tools in the software.

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

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Delcam's PartMaker plans User Group Meetings to launch PartMaker 2014

28 January 2014

Delcam's PartMaker Inc. Division will host a series of User Group Meetings around the USA during February and March to launch PartMaker 2014. The programme at each event will feature comprehensive technical sessions on the new features of PartMaker 2014, with a special focus on Delcam's latest high-speed machining technology, Vortex.

The event dates and locations are as follows:

February 21 – Philadelphia area

February 28 – Chicago area

March 7 – Los Angeles area

March 14 – New England

The full agenda, booking form and details including exact location for each event can be found at www.partmaker.com/2014usergroup

The events will also include a presentation on tactics for best utilizing Delcam's new Vortex high-speed machining strategies with high-feed end mills. Additionally, delegates will be updated on Delcam's acquisition by Autodesk.

PartMaker's senior technical personnel will discuss the latest developments in PartMaker and will be on hand to answer any technical questions. They will also discuss the future of PartMaker's development efforts and to listen to delegates' input to incorporate into future versions.

A complimentary catered breakfast and lunch buffet will be provided to all registered attendees. In addition, all attendees will also have the opportunity to race the PartMaker staff at each venue's indoor karting track.

As well as seeing the introduction of Delcam's Vortex high-efficiency strategy for area clearance into the PartMaker CAM suite, PartMaker 2014 includes improved back-turning and 2D pocketing functionality, support for additional tool types and faster programming of lead-in and lead-out moves, plus a new NC program viewer and many other improvements.

Full details on the 2014 release, with videos demonstrating the new functionality, can be seen at www.delcam.tv/pmk2014/lz

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JEC COMPOSITES 2014: SPRING Technologies unveils "NCSIMUL Machine Composites"

30 January 2014

[SPRING Technologies](#), vendor of solutions to enhance the productivity of CNC machines, invites you to visit its booth at JEC COMPOSITES 2014 from March 11 to 13 at the Parc des Expositions, Porte de Versailles, Paris. With its new offering, "NCSIMUL Machine Composites", SPRING is extending its simulation offer to encompass composite lay-up.

Composites are a new growth opportunity for manufacturers, while at the same time addressing environmental issues and optimizing material costs. Yet, getting completely on top of these materials remains a challenge. This is why SPRING Technologies is delivering new, dedicated software solutions for professionals, backed up by project engineering support from its historic partner [HACOMA](#).

Repurposing experience of ISO programming into composites

With NCSIMUL Machine 9.1, the latest version of its flagship machining simulation software, SPRING Technologies is bringing its expertise in CNC program simulation (supporting ISO and other codes) to the process of manufacturing parts in composite materials. The new "composites" functionalities enable smarter, more realistic, and more efficient lay-up simulation, supporting a wide range of manufacturing methods.

NCSIMUL Machine users can now simulate lay-up processes executed by Numerical Control machines (including robots), integrating technical publishing for documents such as [work sheets](#), and automating numerous simulation process functions.

- Fast validation of CAM programs for material lay-up
- Precise positioning of the fiber ribbon and alarm systems (program error detection, collisions, etc.)
- Dedicated 3D analysis tools: fiber thickness measurement, angles between fibers , radius of aperture
- All 3D information can be reused by the design office (the fiber lay-up envelope can be exported for re-use in CAD)
- Easy, efficient user interface

SPRING and HACOMA pool their experience to produce a comprehensive solution for specialists

Composites interact with all areas of manufacturing. Yet, because they are so different, they demand a special approach when it comes to part design, tooling and route sheets. With its expertise in process engineering and composite parts, HACOMA supports manufacturers through their process end-to-end, from the design specification to the shipped part. To enable manufactures to get completely on top of their composite product development process, HACOMA and SPRING Technologies offer specific training in high-performance composites; from initiation into composites to complete mastery of complex composite part design methods. The training course includes the following modules:

- **“Core”**: design and philosophy of using composites.
- **“Process”**: approaching and mastering the processes.
- **“Tooling”**: understanding all the tools needed to produce composites parts.
- **“Hands-on CAD implementation”**: how to apply CAD (CATIA V5) to real-world cases.
- **“Analysis”**: behavior and calculations, composite material resistance in the design office.
- **“Design”**: mastering the complete design method for a part.

SPRING Technologies looks forward to meeting you on booth R12 hall 7.3 at the JEC COMPOSITES show on March 11, 12 and 13 2014 where you can find out full details of the new composite solutions from SPRING Technologies and HACOMA.

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SolidCAM UK to Demonstrate SolidCAM and iMachining at MACH 2014

30 January 2014

SolidCAM UK Ltd will be exhibiting on stand 5242 in Hall 5 at the UK’s largest manufacturing technologies event - MACH 2014 at the National Exhibition Centre (NEC), Birmingham, 7th - 11th April 2014. Over five days, this outstanding biennial event will welcome more than 20,000 visitors wishing to find the most innovative manufacturing technologies available today.

SolidCAM UK will be demonstrating its full suite of SolidCAM CAD/CAM products for milling and turning, including its software for advanced mill-turn applications. Live cutting using SolidCAM’s unique, patented and revolutionary iMachining technology, will be demonstrated on the booth.

SolidCAM's iMachining technology saves 70% in CNC machining time and more, and extends tool life dramatically. The [iMachining Technology Wizard](#) provides a reliable partner, automatically determining speeds and feeds and other machining parameters. iMachining provides unprecedented savings and increased efficiency for CNC milling operations, translating into profits and success. All of SolidCAM customers worldwide, who have invested in iMachining, are enjoying these immense savings!

CIMdata PLM Industry Summary

During each day of the show, SolidCAM UK will run live cutting demonstrations using a [Doosan DNM400](#) Vertical Machining Centre, provided by [Mills CNC](#), work-holding provided by [Roemheld](#) and cutting tools provided by [Iscar Tools](#). The live cutting will fully demonstrate the 70% savings which are possible with iMachining, enabling machine shops to see for themselves how it can make them more productive and profitable.

Visitors will have the opportunity to talk with SolidCAM UK's Certified Application Engineers about the latest version of SolidCAM2014 which has more than 100 new enhancements across its modules. These include 2.5D Milling, HSS, 3D HSM, Simultaneous 5-Axis Milling, iMachining 2D & 3D, Turning and Advanced Mill-Turn for multi-turret and multi-spindle machines, as well as the new Solid Probe module.

SolidCAM continues to push the CAM boundaries and its engineers are looking forward to talking to existing SolidCAM customers and meeting the next generation of users, helping them all to improve their manufacturing processes.

Gordon Drysdale, Managing Director at SolidCAM UK Ltd says "Our role in the industry draws on our experience of supplying software to high-end manufacturing industries such as aerospace, automotive, medical, mold and die and general sub-contract machining. Many of our customers use premium - and expensive - materials and demand absolute accuracy in production. With SolidCAM, we can offer the reliability, productivity and cost reductions essential for success in these sectors."

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Financial News

Agilent Technologies to Host Webcast of First-Quarter Fiscal Year 2014 Financial Results Conference Call

30 January 2014

Agilent Technologies Inc. will release first-quarter fiscal 2014 financial results after the stock market closes on Feb. 13. The company will host a live webcast of its investor conference call in listen-only mode.

Date: Thursday, Feb. 13

Time: 1:30 p.m. PST

Web access: www.investor.agilent.com

Listeners may log on and select "Q1 2014 Agilent Technologies Inc. Earnings Conference Call" in the "News & Events - Calendar of Events" section. The webcast will remain on the company site for 90 days.

CIMdata PLM Industry Summary

In addition, a telephone replay of the conference call will be available at approximately 4:30 p.m. PST, Feb. 13 through Feb. 20, by dialing +1 855 859 2056 (or +1 404 537 3406 from outside the United States) and entering pass code 31478615.

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ANSYS to Release Fourth Quarter and YTD 2013 Earnings on February 27, 2014

29 January 2014

ANSYS, Inc. announced that the Company expects to release its fourth quarter and YTD 2013 earnings on Thursday, February 27, 2014. The Company will hold a conference call conducted by James E. Cashman III, president and chief executive officer, and Maria T. Shields, chief financial officer, at 10:30 a.m. Eastern Time to discuss fourth quarter and 2013 results and future outlook.

CONFERENCE CALL INFORMATION:

What: ANSYS Fourth Quarter and 2013 Earnings Conference Call

When: February 27, 2014 at 10:30 a.m. Eastern Time

Participants are encouraged to pre-register for the conference call using the enclosed link. Callers who pre-register will be given a unique PIN to gain immediate access to the call, bypassing the live operator. Participants may pre-register any time, including up to and after the call start time. You will immediately receive an online confirmation, an email with the dial in number and a calendar invitation for the event.

To pre-register, go to:

<http://dpre register.com/10040285>

You may also reach the pre-registration link by logging in through the investor section of our website at <http://investors.ansys.com> and clicking on the Audio Webcasts link. Click the event under Upcoming Events.

For those who do not have internet access or are unable to pre-register, simply join the call on the day of the event by dialing (866) 652-5200 (US) or (412) 317-6060 (CAN and INT'L). Ask the operator to join you into the ANSYS Conference Call.

The call will be recorded with replay available within two hours after the call at <http://investors.ansys.com> or at (877) 344-7529 (US) or (412) 317-0088 (CAN and INT'L). Passcode: 10040285

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EMC Reports Fourth-Quarter and Full-Year 2013 Financial Results

29 January 2014

EMC Corporation reported fourth-quarter and full-year 2013 financial results.

Fourth-quarter revenue was \$6.7 billion, an increase of 11% compared with the year-ago quarter. Fourth-quarter GAAP net income attributable to EMC increased 17% year over year to \$1.0 billion. Fourth-quarter GAAP earnings per weighted average diluted share increased 23% year over year to \$0.48. Non-GAAP¹ net income attributable to EMC was \$1.3 billion, an increase of 7% compared with the year-ago quarter. Fourth-quarter non-GAAP¹ earnings per weighted average diluted share were \$0.60, an increase of 11% year over year.

Full-year 2013 revenue was \$23.2 billion, an increase of 7% year over year. This result was highlighted by 5% year-over-year revenue growth for EMC's Information Infrastructure business, and 15% year-over-year revenue growth each for VMware and Pivotal. GAAP net income attributable to EMC for 2013 increased 6% year over year to \$2.9 billion, and GAAP earnings per weighted average diluted share were \$1.33, up 8% year over year. Non-GAAP² net income attributable to EMC for 2013 was \$3.9 billion, an increase of 4% year over year, and non-GAAP² earnings per weighted average diluted share were \$1.80, an increase of 6% year over year.

For 2013, EMC generated operating cash flow of \$6.9 billion and free cash flow³ of \$5.5 billion, increases of 11% and 10% year over year, respectively. The company ended the year with \$17.6 billion in cash and investments.

Joe Tucci, EMC Chairman and Chief Executive Officer, said, “Our fourth-quarter results are further evidence that our federation strategy across EMC Information Infrastructure, VMware and Pivotal is on target. There's no doubt that the move from the second platform to the third platform of IT, underpinned by the mega trends of mobile, cloud, Big Data and social, is having a profound impact on business and transforming the way we work and live. Customers and partners have these transformations in their sights and are embracing EMC's vision, strategy and best-of-breed portfolio to capitalize on them.”

David Goulden, CEO of EMC Information Infrastructure and EMC's Chief Financial Officer, said, “Despite 2013 IT spend growth that was lower than we expected, EMC achieved strong revenue and profit growth. This outperformance relative to our industry speaks to the power of the EMC portfolio, solid operational and financial model and consistent execution against our strategy. We entered 2014 exceptionally well positioned to grow faster this year than our IT spending growth projection while also gaining share in the markets we serve.”

Fourth-Quarter Highlights

For the fourth quarter, EMC's Information Storage business accelerated revenue growth to 10% year

CIMdata PLM Industry Summary

over year. EMC's Emerging Storage business⁴ accelerated revenue to 73% year over year, propelled by the very successful launch of EMC XtremIO and continued strong growth of EMC Isilon, EMC Atmos and EMC VPLEX products. The company's Unified and Backup Recovery business⁵ increased revenue 11% year over year, benefitting from the recent product launches of the next-generation EMC VNX and EMC Data Domain product lines. Revenue from EMC's High-end Storage business⁶ returned to growth in the fourth quarter as customers continued to turn to the company's popular VMAX family. Revenue growth from EMC's RSA Information Security business and EMC's Information Intelligence business accelerated to 17% and 3% year over year, respectively.

[VCE](#) had an excellent fourth quarter as demand for Vblock systems showed strong year-over-year growth. EMC's VSPEX reference architecture portfolio continued to extend its market leadership with rapid adoption and increasing popularity among customers and partners. Additionally, EMC's Cloud Service Provider Partner program continued in the quarter as the company's fastest-growing vertical market segment.

In the fourth quarter, [VMware](#) continued to excel because it is uniquely positioned to help customers move from the client-server era to the mobile-cloud era of computing. As VMware helps customers bridge to this new world and lays the foundation for the build out of the software-defined data center, it is enabling them to achieve new levels of efficiency, control and agility.

[Pivotal](#) continued to make progress during the quarter. In the nine months since its formation, Pivotal has met the objectives it set out to accomplish in 2013: meeting its financial goals, establishing a strong executive leadership team and launching Pivotal One, a comprehensive, multi-cloud Enterprise PaaS comprised of a set of application and data services that run on top of Pivotal CF, the leading enterprise distribution of the Cloud Foundry platform.

EMC's consolidated fourth-quarter revenue from the United States increased 11% year over year to \$3.5 billion, representing 52% of consolidated fourth-quarter revenue. Revenue from EMC's business operations outside of the United States increased 11% year over year to \$3.2 billion and represented 48% of consolidated fourth-quarter revenue. Within this, on a year-over-year basis, revenue from EMC's Europe, Middle East and Africa region grew 15%, revenue from EMC's Asia Pacific and Japan region increased 1%, and revenue from EMC's Latin America region grew 12%. Revenue from EMC's BRIC+13 markets increased 17% year over year.

Business Outlook

The following statements are based on current expectations. These statements are forward-looking, and actual results may differ materially. These statements do not give effect to the potential impact of VMware's pending acquisition of AirWatch which was announced on January 22, 2014, or any other merger, acquisition, divestiture or business combination that may be announced or closed after the date hereof. These statements supersede all prior statements made by EMC regarding 2014 financial results.

All dollar amounts and percentages set forth below should be considered to be approximations.

- Consolidated revenues are expected to be \$24.5 billion for 2014. Consolidated revenues for the

CIMdata PLM Industry Summary

three months ended March 31, 2014 are expected to be 22% of the full-year revenue.

- Consolidated GAAP operating income is expected to be 18% of revenues for 2014 and consolidated non-GAAP⁷ operating income is expected to be 25% of revenues for 2014.
- Consolidated GAAP earnings per weighted average diluted share are expected to be \$1.38 for 2014 and consolidated non-GAAP⁷ earnings per weighted average diluted share are expected to be \$1.95 for 2014.
- Consolidated GAAP earnings per weighted average diluted share are expected to be \$0.19 for the three months ended March 31, 2014 and consolidated non-GAAP⁷ earnings per weighted average diluted share are expected to be \$0.35 for the three months ended March 31, 2014.
- The consolidated GAAP income tax rate is expected to be 23% for 2014 and the consolidated non-GAAP⁷ income tax rate is expected to be 23.5% for 2014. This assumes that the U.S. research and development tax credit for 2014 is extended in the fourth quarter 2014.
- The weighted average outstanding diluted shares are expected to be 2.06 billion for 2014.
- EMC expects to repurchase an aggregate of \$2.0 billion of the company's common stock in 2014.

Supporting Resources

- EMC will host its fourth-quarter and full-year 2013 earnings conference call today at 8:30 a.m. ET, which will be available via EMC's web site at <http://www.emc.com/ir>
- Additional information regarding EMC's financials, as well as a webcast of the conference call, will be available at 8:30 a.m. ET at <http://www.emc.com/ir>
- Visit <http://ir.vmware.com> for more information about VMware's fourth-quarter and full-year 2013 financial results
- Visit [EMC Pulse](#), EMC's product and technology news blog, and [EMC Reflections](#)
- Connect with EMC via [Twitter](#), [Facebook](#), [YouTube](#), and [LinkedIn](#)

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Nemetschek AG: Strong revenue growth of 9% in the fourth quarter

31 January 2014

Nemetschek AG published its preliminary revenue figures for the fourth quarter and the whole year 2013.

Positive review of 2013

In the fourth quarter 2013 Nemetschek was able to accelerate growth and raise Group revenues to Euro 51.7 million, an increase of 9% on the prior year (EUR 47.4 million). For the year 2013 as a whole Group revenues rose by 6% to EUR 185.9 million (prior year: EUR 175.1 million).

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"We increased our pace in the fourth quarter and achieved a very positive final quarter", stated Dr. Tobias Wagner, member of the executive board of Nemetschek AG, on the development of revenues. "In the year 2013 we expanded our solutions portfolio organically and non-organically, extended regional markets, presented innovative solutions and focused even more intensively on customer requirements", continued Wagner. Meanwhile, about 1.2 million users work with software solutions from Nemetschek.

The revenues from maintenance contracts in particular were strong contributors to growth. These increased over the whole year by 11% to EUR 89.1 million (prior year: EUR 80.1 million). The share of total revenues increased accordingly from 46% to 48%. The license revenues of EUR 87.0 million were about 2% higher than the prior year amount of EUR 85.8 million; a share of overall revenues of 47% (prior year: 49%)

Development of segments

For the Design segment the fourth quarter 2013 was the strongest: With a plus of almost 10% revenues climbed to EUR 42.2 million (prior year: EUR 38.5 million). For the whole year 2013 revenues of EUR 149.5 million were generated (prior year: EUR 141.8 million), which represents growth of 5.5%. The brands Graphisoft (Hungary) and Vectorworks (USA) have contributed materially to the positive development.

In the Build segment the growth course was accelerated by a plus in revenues of 9.6% in the fourth quarter. In total, revenues for the whole year amounted to EUR 15.4 million, an increase of 7.4% compared to the previous year (EUR 14.3 million).

The Manage segment also developed positively: With a growth of 20.2% over the whole year revenues in 2013 rose significantly to EUR 5.0 million (prior year: EUR 4.2 million). The growth path also continued in the Multimedia segment. In the year 2013 revenues rose by 8.1% to EUR 16.0 million (prior year: EUR 14.8 million).

Nemetschek AG adheres to its forecast of an EBITDA margin of between 22 and 24% of revenues.

The detailed and audited figures for the financial year 2013 will be published with the annual report 2013 on Friday, 28 March 2014.

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Implementation Investments

Centric Software Signs First Customer in China -- Cache Cache China begins immediate implementation of PLM software

28 January 2014

CIMdata PLM Industry Summary

Cache Cache China has selected Centric Software, Inc., for its product lifecycle management (PLM) solution, making it Centric's first customer in China.

Cache Cache China, which offers modern, fashionable women's ready-to-wear apparel, footwear and accessories, will implement the Centric 8 PLM software for retail, apparel, footwear, luxury and consumer goods for all of its product lines. The company will use Centric's PLM software to develop its collections for the more than 900 stores it operates in China. Deployment will begin immediately.

"The innovative Centric PLM software is an excellent solution for Cache Cache China," says Sandrine Woirnesson, vice president of finance, IT and corporate governance for Cache Cache China. "The software's scalability, along with the fact that it is designed for the specific needs of the apparel industry, will allow Cache Cache China to continue its fast-growth strategy."

Expected benefits include enhanced collaboration throughout product development teams, and improved visibility for better go/no-go product decision-making, according to Woirnesson. "The Centric 8 solution will accelerate efficiency and speed to market for the Cache Cache China collections."

"Cache Cache China is an innovative, fast-growing organization with which Centric can partner well," says Chris Groves, president and CEO of Centric. The company will rapidly begin to reap benefits from Centric's out-of-the box, configurable solution and Agile DeploymentSM methodology, he adds. "Our partnership with Cache Cache China and expansion into the Chinese market are exciting steps for Centric's growing worldwide presence."

Cache Cache China (www.cache-cache.cn)

Cache Cache China offers modern, fashionable and accessible women's ready-to-wear apparel. Offering Chinese customers localized international fashion choices, the brand is noted for its playful spirit. The fast-growing company, based in Shanghai, opened its first store in China in 2005. Today, Cache Cache China operates more than 900 stores. Cache Cache China is part of the Group Beaumanoir, a worldwide fashion group with six ready-to-wear brands and over 2,500 points of sale in more than 40 countries. Headquartered in Saint-Malo, France, the Group posted €1.235 billion in revenues in 2012.

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ELLASSAY chooses Lectra Fashion PLM to support its business strategy and develop its brand DNA

28 January 2014

Lectra, a leader in integrated technology solutions dedicated to industries using soft materials—fabrics, leather, technical textiles and composite materials—is pleased to announce that ELLASSAY has chosen Lectra Fashion PLM to support its brand management and global business strategy.

A top womenswear brand in China, ELLASSAY creates elegant, haute couture level fashion, developed using sophisticated fabric and apparel technologies. The company insists on a very high level of product quality therefore it invests heavily in technology as well as in international design talent.

CIMdata PLM Industry Summary

ELLASSAY's goal is to grow into a Chinese fashion brand that influences both the domestic and international stage. They are the first Chinese haute couture brand to participate in New York Fashion week, presenting at the event's main venue.

The motivation to adopt Lectra Fashion PLM came from the need for the company to optimize its management process and support growth. "With our overseas activities, we needed a unique collection development management solution," says Xia Guoxin, ELLASSAY Chairman. "We chose Lectra Fashion PLM because of Lectra's unique and global project implementation approach, as it takes into account the challenges we face and is supported by 40 years of fashion expertise. We speak the same fashion language," he explains.

Lectra Fashion PLM also convinced the R&D Director Fu Gang. "We believe Lectra Fashion PLM can help us improve R&D collaboration and better control our process, increasing speed while also bringing high quality products to market," he adds.

Lectra Fashion PLM enhances collection planning and enables early decision making

ELLASSAY designs and develops 80% of products in-house and manufactures their entire range themselves. Lectra Fashion PLM will help ELLASSAY improve collaboration between its design, development and production teams. With Lectra's Fashion Platform, each department will be able to work with the same information in real-time. Xia Guoxin is directly in charge of planning, design and development so having a consolidated view is particularly important, especially for early decision-making.

Lectra Fashion PLM will also help the company better control workflow and collection planning. As the company goes global, producing more styles while mastering margins is a critical issue. By allowing ELLASSAY to manage the entire fashion development process with a comprehensive solution, Lectra Fashion PLM will help the company optimize costs. "60% of our fabric is imported from European countries. To remain competitive we need to better anticipate any issues within our development process. I am confident that Lectra Fashion PLM will support our global strategy while also ensuring cost control," continues Fu Gang.

"We really believe Lectra is the best partner to help us preserve our brand DNA while continuing to innovate and stay a step ahead of our competitors," adds Xia Guoxin.

In the future, ELLASSAY plans to extend the footprint of their Lectra Fashion PLM project by deeply integrating design, product development and production to reinforce their international business development.

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CIMdata PLM Industry Summary

Seattle City Light to Support Smart Grid Initiatives and Improve Customer Service with Oracle Utilities Applications and Technology Solutions

28 January 2014

News Summary

Seattle City Light selected a broad footprint of Oracle Utilities applications and technology solutions to more effectively adapt to changing business conditions, meet and exceed customer expectations, address operational issues and support future smart grid initiatives.

News Facts

- [Seattle City Light](#), the tenth largest public utility in the United States, selected a broad footprint of Oracle applications and technology solutions to help reduce costs, improve customer service and lay the groundwork to support smart grid initiatives. Seattle City Light is working with [PricewaterhouseCoopers](#) (PwC), a Diamond level member of Oracle PartnerNetwork (OPN), on the implementation.
- Seattle City Light, which is updating its enterprise architecture and technology infrastructure as part of a broader business transformation to enhance operational efficiency, selected [Oracle Utilities Customer Care and Billing](#), [Oracle Utilities Customer Self Service](#), [Oracle Utilities Meter Data Management](#), [Oracle Utilities Smart Grid Gateway](#), [Oracle Business Intelligence for Utilities](#), [Oracle Documaker Enterprise Edition](#) and [Oracle User Productivity Kit](#). The utility already uses [Oracle Utilities Work and Asset Management](#) and [Oracle Utilities Network Management System](#) to help accelerate network restoration during outages, improve operational efficiency, enhance system reliability and better manage power distribution assets.
- With Oracle's operational platform, Seattle City Light will lay the foundation to drive its future advanced metering infrastructure (AMI) initiative forward.

Supporting Quotes

- “A key factor in our Oracle selection was that its solutions enabled us to purchase what we needed now, and build on that foundation for new initiatives. This flexibility is critical as we draw the blueprint for our AMI initiative,” said Dr. Dirk Mahling, chief information officer, Seattle City Light.
- “Utilities today are focused on agile operations and effective customer communications. We are pleased that Seattle City Light chose Oracle's enterprise-wide set of mission-critical solutions to help increase operational efficiency and improve the customer experience,” said Rodger Smith, senior vice president and general manager, Oracle Utilities.

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Terrafugia Takes Bill of Materials Management to New Heights with PLM System to Develop their Street-Legal Airplane

27 January 2014

[Terrafugia](#) was founded in 2006 by award winning MIT-trained aeronautical engineers and MBA's – who also happen to be passionate private pilots. Taking advantage of new Federal Aviation

CIMdata PLM Industry Summary

Administration (FAA) regulations in the Light Sport Aircraft category, Terrafugia developed the Transition® Roadable Aircraft to provide private and sports pilots the convenience of a dual-purpose vehicle for flight and road use.

The Transition addresses head-on the issues private and sport pilots face: cost, weather sensitivity, high overall door-to-door travel time and a lack of mobility at destination. It is a two-place Light Sport Airplane that takes off and lands at any of the over 5,000 public-use airport around the country, folds its wings in about a minute, drives on any surface road – including highways – and can park in a single car garage.

Challenge/Situation:

Maintaining Complete Production Documentation for FAA Requirements

The Transition Roadable Aircraft will be compliant with the FAA’s Light Sport Aircraft (LSA) standards as well as the National Highway Safety Administration’s (NHTSA’s) Federal Motor Vehicle Safety Standards for Multi-Purpose Passenger Vehicles. All manufacturers of LSA are required to maintain complete “Production Documentation,” including parts lists/Bill of Materials (BOMs). When new revisions of the standards become accepted by the FAA, old production vehicles still need to demonstrate line item compliance to the standards in effect when they were shipped. Initially, Terrafugia was managing their product information in a paper-based manner with automotive and aviation specifications contained in large manuals and BOMs tracked in Excel spreadsheets without any association to each other. The company needed to track this detailed and dynamic data in a more controlled and efficient manner to ensure adherence to the LSA requirements.

“We consider it a best practice to have a digital BOM under change control,” stated Douglas Quattrochi, Vice President of Operations for Terrafugia. “A Product Lifecycle Management tool was therefore a very natural need for us.”

Goal/Strategy:

Intuitive, Configurable and Cost Effective PLM Solution

Terrafugia set out to find a PLM solution that could meet their needs for product information management, particularly BOM and change management capabilities, at the right price. The company evaluated three vendors and found that the Empower PLM solution from Omnify Software was the perfect fit. “As a small company with very limited resources, we needed to make sure that the PLM solution we purchased was intuitive, immediately configurable to our needs, and an excellent value,” said Mr. Quattrochi. “We found all of this with Omnify Empower PLM.”

Terrafugia’s product definition team found the Empower PLM interface to be straightforward, aesthetically pleasing and easy to navigate. “We were able to configure the software to our needs based on the recommendations we received during our training, and we found a licensing solution that could be tailored to our budget and timeframe,” added Quattrochi.

Customer Success:

Producing Prototype BOMs is a Breeze

The robust BOM and revision management capabilities of Empower PLM allowed Terrafugia to take managing parts list information one step further. The company now tracks old and new production vehicle information electronically and with associations in Empower PLM. This facilitates compliance with the LSA requirements. “We created a BOM for the current version of the LSA standards for new vehicles and are also able to track past revisions of vehicles pointing to past revisions of the standards,” stated Mr. Quattrochi. “We use associations and documents to create a bi-directional cross reference between requirements and parts.”

The BOM Attribute feature of Empower PLM also helps to track the weight of each part to determine the weight of the entire vehicle/aircraft—a very important aspect of aircraft development. The BOM Attribute field is user defined and can help to track important notes such as component weight. All Terrafugia vehicles are custom ordered therefore each build is a variant of a Parent BOM. The variant BOM lists all customer configured items. “We use BOM Attributes to store the weight of each component, giving us the ability to know exactly what each aircraft weighs,” said Mr. Quattrochi. “The ability to leverage this field gives us greater insight into the BOM and better design control.”

The Transition® is still in pre-production. “While we can’t make productivity comparisons, it’s safe to assume that we simply couldn’t have produced our prototype Bill of Materials with the tools we had before,” stated Mr. Quattrochi. Chief Operating Officer for Terrafugia, Anna Dietrich, added that, “We’re looking forward to growing with Omnify and integrating it with other requirements sets and production processes in the future.”

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Product News

Adlib and EMC Strengthen Relationship with EMC Certification of Adlib Products

27 January 2014

Adlib announced today that it has received EMC Certified Solution Partner status for its Advanced Rendering products. Adlib has worked closely with EMC since 2005, providing [Advanced Rendering](#) for EMC’s Documentum customers.

“Building on our original OEM offering, we are thrilled that our Enterprise edition has now received EMC certification. This helps to solidify our relationship and validates the launch of our new Documentum connector,” said Peter Duff, President and CEO of Adlib. “This certification supports EMC’s understanding of the exceptional value Adlib PDF delivers to end users directly within their Documentum environments.” EMC Documentum users can now find Adlib in the [EMC Certified](#)

[Solutions catalog.](#)

Adlib PDF integrates with EMC's Enterprise Content Management system, Documentum, to provide next-generation Advanced Rendering technology that is ideal for high-volume environments where accurate, scalable and highly-available document-to-PDF conversion and transformation services are required across the enterprise.

Adlib PDF is well known to EMC customers having been an OEM supplier for previous versions of ADTS. With the recent launch of [Adlib PDF Enterprise 5.1](#), Adlib now offers a direct certified connector to Documentum, allowing customers greater control and flexibility with document rendering. The connector provides enterprises with the ability to deploy Advanced Rendering as a shared service across multiple Enterprise Content Management systems throughout an organization, and ensures that customers have access to Advanced Rendering features regardless of which version of ADTS or CTS they use.

Optical Character Recognition (OCR), also provided by Adlib, was previously certified by EMC and has received certification renewal. Similarly, the Adlib CAD Module has also received renewed certification.

"We're looking forward to a continued long-standing relationship as an EMC Certified Solution Partner, delivering an Advanced Rendering solution that adds significant value to the Documentum ECM platform," Duff concluded.

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ANSYS Debuts New Electromagnetic Simulation Suite For Printed Circuit Board Design

29 January 2014

Designing and optimizing complex high-speed electronic devices from end-to-end is faster, easier and more accurate thanks to an expanded suite and new functionality for ANSYS® SIwave™. ANSYS' electromagnetic (EM) simulation suite for the design of high-speed printed circuit boards (PCB) and integrated circuit (IC) packages is now available via three targeted products, SIwave-DC, SIwave-PI, and SIwave. Users can quickly identify potential power and signal integrity problems with increased flexibility and easier access to a complete set of analysis capabilities that can be leveraged throughout the PCB design flow.

Powered by its hybrid, full-wave finite element EM solver engine, the new SIwave suite delivers a complete signal integrity analysis solution in a single user interface. SIwave-DC targets the DC analysis of low-voltage, high-current PCB and IC packages, enabling the assessment of critical end-to-end voltage margins for reliable power delivery. SIwave-PI includes all SIwave-DC features and adds

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alternating current (AC) analysis to accurately model power delivery networks and noise propagation on PCBs. SIwave combines all SIwave-DC and SIwave-PI functionality and adds a robust time-domain circuit simulation engine for end-to-end signal integrity design and compliance.

"It's becoming increasingly important for our customers to be able to quickly recognize potential pre- and post-layout power and signal integrity problems for today's high-speed digital designs," said Steven Pytel, product manager at ANSYS. "In consultation with our customers, we identified demand for targeted analysis for DC, power integrity, and full systems. The new SIwave technology and workflow provides a complete set of analysis software based on the highest fidelity electromagnetic numerical analyses to address all aspects of PCB and IC package design."

ANSYS SIwave highlights include:

- New Application-Specific Product Offerings
 - SIwave-DC allows users to perform pre- and post-layout DC voltage drop, DC current density and DC power density analyses. This will ensure that power distribution networks (PDNs) can source the proper power to integrated circuits by checking that the PDN has the proper bump, ball and pin sizes as well as proper copper weighting to minimize losses and identify areas of excess current resulting in thermal hot spots to reduce risk of field failure.
 - Using sophisticated genetic algorithms, SIwave-PI allows the specification of various constraints (capacitor price, total number of capacitors, desired network impedance, etc.) for consideration in its cost function. Accurate frequency-dependent S-parameter capacitor models are utilized during simulation. In addition, the impact of capacitor physical location and mounting technique is captured by the full-wave electromagnetic extraction engine. SIwave-PI significantly improves engineering productivity by automating decoupling capacitor selection, placement and optimization for printed circuit boards and IC packages.
 - With SIwave, signal integrity engineers can easily import electrical CAD geometry, extract GHz-accurate interconnect models for the IC, package and PCB, include transistor level models of drivers and receivers and run signal sign off analysis, impedance matching and power delivery system optimization. This solution includes common Input/Output Buffer Information Specification (IBIS) analyses such as "Power-Aware IBIS" and "IBIS-AMI" to provide virtual compliance to design engineers.

Other key features in SIwave include virtual compliance, advanced simulation performance and high-performance computing (HPC) acceleration and bi-directional links to ANSYS[®] Icepak[®] and ANSYS[®] Mechanical[™] to predict temperature rise, thermal induced stress and structural integrity.

The new release will ship in March 2014. To learn more about the new SIwave, please visit: <http://www.ansys.com/Products/Simulation+Technology/Electromagnetics/Signal+Integrity/ANSYS+SIwave>.

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Autodesk and FOX Sports Team Up on Groundbreaking Wind Simulation Technology for Super Bowl XLVIII Broadcast

28 January 2014

The New Jersey Meadowlands, home of MetLife Stadium and Super Bowl XLVIII, has long been known for its unpredictable, swirling winter winds. Autodesk and FOX Sports are teaming up to give viewers the opportunity to actually see what impact the wind may have on the first Super Bowl ever held outdoors in a cold-weather locale. The technology, dubbed *FOX WEATHER TRAX* for the game, clearly illustrates, for the first time ever on live television, dynamic in-stadium airflow patterns.

FOX Sports called upon [Autodesk](#), a leading software provider changing the way the world is designed and made, to illustrate the challenges players may face due to potentially unprecedented Super Bowl wind conditions. Using Autodesk simulation technology to calculate the specific weather conditions inside MetLife Stadium in East Rutherford, NJ, the software provider and FOX plan to superimpose visual representations of wind direction directly over game play. Prior to this joint effort, coaches, players, commentators and fans relied on field goal flags to determine how the wind influenced a pass or field goal. It was a guessing game at best, and one that typically left viewers scratching their heads as to why a kick or touchdown pass was missed. The collaboration between FOX Sports and Autodesk eliminates the guesswork.

"Wind is obviously an invisible factor that can directly affect the outcome of a game," said Zac Fields, Vice President, Graphics & Technology, FOX Sports, who is working directly with the Autodesk team on the project. "Since the wind has a notorious reputation in the New Jersey Meadowlands, and given the magnitude of the game, we looked for and found a great tool to depict this phenomenon in excellent detail which should help the more than 100 million viewers actually 'see the wind.'"

Simulation technology is regularly used by designers, architects and engineers to investigate "what-if" scenarios, explore new ideas and gain deeper insight into how an everyday product, a building or stadium behaves during day-to-day use. This new and easy-to-use technology has radically improved the design process by allowing Autodesk customers to test and analyze designs digitally before physical production and perhaps best of all, the digital computation takes place unobtrusively behind the scenes - similar to spellcheck in a word processing application.

"When FOX Sports sought to take this year's Super Bowl viewing experience to the next level, Autodesk was more than ready to answer the call," said Buzz Kross, Autodesk senior vice president. "People use our simulation software every day to understand and predict outcomes in the world around them. Whether it's testing how a mobile phone operates in extreme temperatures or the air flow in an office building, our simulation tools help people make better decisions and produce winning outcomes."

How it Works

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For the first time ever, home viewers will have an insider's view of the wind and airflow patterns at the stadium, but how exactly does it work?

- Step 1 – A digital model of the stadium is constructed using 3D modeling software.
- Step 2 – Simulation software interacts with the digital stadium model. The user alters wind speed and direction to suit the game day conditions and sees how the air flow patterns inside the stadium are affected.
- Step 3 – The simulation graphics are then played out over a live camera to show the viewer the wind paths in relation to the field.

An example of this combined effort can be seen [here](#). Interested in creating your own wind simulation – try [Autodesk Flow Design](#).

About FOX Sports

FOX Sports is the umbrella entity representing 21st Century FOX's wide array of multi-platform US-based sports assets. Built with brands capable of reaching more than 100 million viewers in a single weekend, FOX Sports includes ownership and interests in linear television networks, digital and mobile programming, broadband platforms, multiple web sites, joint-venture businesses and several licensing partnerships. FOX Sports includes the sports television arm of the FOX Broadcasting Company; FOX Sports 1, FOX Sports 2; FOX Sports Regional Networks, their affiliated regional web sites and national programming; FOX Soccer Plus; FOX Deportes and FOX College Sports. In addition, FOX Sports also encompasses FOX Sports Digital, which includes FOXSports.com on MSN, FOX Sports GO, Whatifsports.com and Yardbarker.com. Also included in the Group are FOX's interests in joint-venture businesses Big Ten Network, BTN 2Go and STATS, LLC, as well as a licensing agreement that establish the FOX Sports Radio Network.

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CGS Releases BlueCherry® Omnichannel Merchandise Planning for Softlines Retailers

29 January 2014

CGS, a global provider of technology solutions, continues the expansion of its retail solutions with the release of the BlueCherry® Omnichannel Merchandise Planning (OCMP) solution. This integrated, fashion and softlines solution will enable retailers to merge individual store, wholesale, catalog, and ecommerce plans into a single, multichannel plan that will help to increase sales, fulfillment rates, and inventory turns across their entire business. It was unveiled at NRF 2014 – “Retail's Big Show” in New York City.

Through its advanced category planning capabilities, the BlueCherry OCMP solution will enable companies to plan specific product categories using sales history or point-of-sale data across retail, financial, and delivery calendars.

The solution also includes powerful e-commerce capabilities that allow companies to choose the specific channel planning, inventory control, and brand management tools they require to make better design,

purchasing, and inventory decisions.

“To remain competitive in the fashion and soft goods industry companies must continue to have their finger on the pulse of the consumer as they plan their product assortment and merchandise mix,” said Paul Magel, President of the Applications Solutions Group at CGS. “The BlueCherry® Omnichannel Merchandise Planning solution will empower retailers to manage everything from planning and forecasting, to brand management, and inventory control. It’s a channel-specific, scalable solution that will help companies meet consumer demand, increase sales, and reduce cycle times.”

The comprehensive solution will also feature category, assortment, and store-level planning with the benefit of real-time updates and improved demand and supply visibility.

For more information please visit www.cgsinc.com.

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Dassault Systèmes Launches the First SOLIDWORKS Application on the 3DEXPERIENCE Platform - SOLIDWORKS Mechanical Conceptual

27 January 2014

Dassault Systèmes confirms today the launch of SOLIDWORKS Mechanical Conceptual, on the 3DEXPERIENCE Platform.

In the Age of Experience, the world of design has changed: it is more social, more conceptual, and collaboration is critical. SOLIDWORKS Mechanical Conceptual on the 3DEXPERIENCE Platform is the essence of that belief. Dassault Systèmes is opening new horizons to the world of design and providing the entire SOLIDWORKS community the power of all Dassault Systèmes applications, content and services.

“As technologies and business models evolve, our users look to us to provide them with the newest tools to help them collaborate more widely and leverage 3D manufacturing and 3D printing in order to be more competitive and innovative. With SOLIDWORKS Mechanical Conceptual, we’ve done that. For the first time ever, the entire manufacturing industry can benefit from a game-changing social platform that powers both the global SOLIDWORKS community, as well as a new generation of process experiences for the worldwide CATIA community,” said Bertrand Sicot, CEO, SOLIDWORKS, Dassault Systèmes. “Because of this, the cooperation opportunities for SOLIDWORKS users are profound. This opens the door for our customers across multiple industries and companies where Dassault Systèmes and its other applications are significant players.”

In addition to seeing the new design environment live, attendees at SOLIDWORKS World (January 26-29) will hear from several customers who have used the product in testing and production for six months. Installed in production environments at numerous customer sites, SOLIDWORKS Mechanical Conceptual advances conceptual design, enabling users to quickly capture and develop their ideas

digitally to create winning designs that build market share.

“I used the Concept Archive to investigate and test different ways of developing my idea at the same time. There are quite a few ways I can develop my concept, but my fundamental constraints remain the same,” said William MacLeod, Senior Engineer, Kennedy Hygiene. “With SOLIDWORKS Mechanical Conceptual, I was able to rapidly produce three or more concept configurations in the time it would take to produce one in conventional 3D CAD solutions. I can quickly iterate on a design and move the selected concept into SOLIDWORKS for final detailing.”

Complementary to the current and continuing version of the industry-leading 3D design software, SOLIDWORKS Mechanical Conceptual combines best-in-class design technology from Dassault Systèmes with SOLIDWORKS’ familiar, easy-to-use interface. This helps to simplify and streamline conceptual mechanical design, allowing users to develop, confirm and choose the best concepts to engage customers and win business.

One of the key advantages of the new SOLIDWORKS offering based on Dassault Systèmes’ 3DEXPERIENCE Platform is the online collaboration via its built-in cloud capabilities. The social aspect of concept design and decision making is integrated into SOLIDWORKS Mechanical Conceptual’s capabilities.

SOLIDWORKS Mechanical Conceptual is a modeling environment focused on the four key elements of conceptual design:

- **CONCEPTUAL:** Users can rapidly create and evolve their concepts the way they want without design barriers, and can automatically capture their ideas to use anytime in the future.
- **INSTINCTIVE:** Users can design the way they think with agile, instinctive design tools in a structureless modeling environment with direct editing.
- **SOCIAL:** Familiar social collaboration tools in the interactive 3DEXPERIENCE environment allow users to harness the collective intelligence of their company, customers and vendors.
- **CONNECTED:** Collaboration is enhanced with automatically saved design iterations to keep data safe, up-to-date and accessible anytime, anywhere.

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Docupoint Releases DrawingSearcher™ 2014 -An Improved AutoCAD Search Engine

29 January 2014

Docupoint announces the release of the latest version of its DrawingSearcher AutoCAD search engine for CAD drawings. The newest version allows users to search across multiple platforms and file types – including all of the most common types of AutoCAD files. DrawingSearcher 2014 improves upon previous versions of the search engine - which allows users to search and access their entire AutoCAD drawing archive based on keywords, search terms, or other broad parameters – while streamlining the user interface and improving overall functionality by including more file types. DrawingSearcher 2014

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is also now supported on the most popular mobile device platforms such as iPad, Droid, iPhone, Kindle and Surface among others.

Among DrawingSearcher 2014's new features are graphical previews included in search results, mobile device compatibility, an improved, streamlined graphical user interface and enhanced indexing performance with support for multi-thread processing. The new features of DrawingSearcher 2014 were developed to improve the overall usability of the search engine, while also allowing for use on mobile devices as well as traditional desktop computers.

With the latest iteration of DrawingSearcher, Docupoint has modified its pricing terms – allowing for a per-user fee and concurrent user licensing rather than continuing the previous one-time investment pricing model. Under the new licensing model, DrawingSearcher is purchased on a per-user basis rather than a one-time upfront cost – making the dynamic search engine more affordable and accessible to a wider user-base.

“The newest version of DrawingSearcher builds off an already popular platform while improving its capabilities based on what our customers want and what we need to maintain our position as the best AutoCAD search engine available,” said David Hughs, President of Docupoint. “The reality of most companies is that they have AutoCAD drawings in many different formats from many different eras. DrawingSearcher 2014 is unique in its ability to service all of the most popular formats in a way that improves the user experience while adding to its functionality – both on a PC and on mobile devices, and now with a more scalable, per-user licensing model.”

DrawingSearcher 2014's new capabilities for both viewing and searching AutoCAD documents and mobile access ensures that an organization's AutoCAD drawings are accessible by users where and when searching is most critical – while being able to even service over 70% of all non-AutoCAD archived CAD drawings and supporting all AutoCAD 2014 documents and earlier AutoCAD versions.

DrawingSearcher 2014 is installed in a company's data center, ensuring that AutoCAD drawings can be accessed, while maintaining strict IT security standards. The standard DrawingSearcher install requires about three minutes plus roughly twenty minutes to configure, followed by an indexing time 30-percent faster than previous versions.

For more information, please visit: <http://www.docupoint.com>.

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ESI releases the latest version of Virtual Performance Solution

30 January 2014

[ESI Group](#) announces the latest release of [Virtual Performance Solution](#). Delivering faster results in

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crash simulation, the new version also offers new approaches for modeling product assembly, for assessing [Noise, Vibration & Harshness](#) (NVH), and for predicting airbag opening behavior more accurately. [Virtual Performance Solution](#) brings industrial clients a decisive competitive advantage, especially when facing the numerous challenges brought by lightweight engineering and the consequent need for numerous design iterations, trade-offs between performance domains, and less conservative safety margins.

[Virtual Performance Solution](#) provides automotive manufacturers with a viable solution to improve passenger safety without slowing down new car developments. As exemplified by the Vehicle Safety Simulation department at [Audi](#), real prototypes can be drastically reduced or eliminated completely.

Using a common core model for their simulations, engineering teams from various departments and from different geographical sites can collaborate efficiently towards the creation of [virtual prototypes](#) that can be used to predict the future behavior of parts or products in all domains of performance.

By taking account of manufacturing effects and the coupling between different physics, even at very early stages of the design process, manufacturers significantly improve their process efficiency; decreases the number of real prototypes built and tested and, thereby reduce product development costs and time-to-market.

[Virtual Performance Solution](#) has been developed to greatly facilitate and accelerate multi-domain optimization and to offer manufacturing companies in all industries the capacity to test and improve their future products. Depending on the industry, domains of application may include [structural stiffness and strength](#), [crash](#), [occupant safety](#), [NVH](#) & [interior acoustics, comfort](#), [durability](#), and [high velocity impact](#).

Thanks to a new execution scheme that supports Multi-Model Coupling, the new version of [Virtual Performance Solution](#) is simpler to set-up, offers easier task submission, and delivers significantly faster calculations. [Distributed Memory Processing](#) (DMP) has been complemented by an alternating job execution per model, reducing processing time by 20 to 30%.

[Virtual Performance Solution](#) offers a new approach for modeling adhesive bonding by introducing special 3D connection elements. These enable a more precise modeling of assembled parts so engineers can more accurately predict behavior in all performance domains, including crash, NVH, stiffness and strength.

The latest release includes an enhanced [Finite Pointset Method](#) (FPM) module including turbulence models for gas flow. The module enables increased precision in the simulation of even the most complex airbag systems, notably curtain airbags.

[Virtual Performance Solution](#) also comes with improvements for NVH assessment. A new method to

evaluate Random Response enables vehicle engineers to achieve a more consistent vehicle by providing more precise prediction of how different road loads and other conditions influence the performance of parts or products. Furthermore, a new scheme for non-linear transient implicit calculations is added to improve the accuracy of durability and strength predictions.

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IMAGINiT Technologies Updates Scan to BIM™ Software

30 January 2014

[Rand Worldwide](#) announced that its [IMAGINiT Technologies](#) division today released its new [Scan to BIM 2014.1](#) software. New features such as Section Box Tool, Create from CAD Tool and Quality Assurance Tool enhance the point cloud functionality within Autodesk® Revit®. Scan to BIM 2014.1 is available via a new short-term rental option that makes it accessible to any mechanical engineer, architect, scanning provider and plant designer whose projects could benefit from working with point clouds directly in Revit.

“Our customers enjoy the business benefits of Scan to BIM, but several firms mentioned that they only needed Scan to BIM for certain projects,” says Tim Johnson, senior vice president, IMAGINiT Technologies. “Based on this feedback, we developed a new rental option that allows organizations to experience the full power of Scan to BIM without incurring the cost of a traditional perpetual license. Coupled with new features that enhance modeling productivity, we think this update will be the most popular version yet.”

“We’ve been really happy using Scan to BIM on recent projects, and we’re very excited for the new features,” added Scan to BIM customer Jason Sturniolo, associate and CAD manager at RRMM Architects.

Scan to BIM’s new rental option provides three core benefits for teams performing point cloud conversion work on an occasional basis:

- It enables small firms and infrequent users of point clouds to increase their productivity and profitability by using the industry’s best software.
- It provides a low cost and simple way to expense software back to a specific project.
- It’s flexible, with options to add licenses or extend the time as required.

For a brief overview of Scan to BIM, [watch this 3 minute video](#).

New Features Enhance Productivity

The new features in Scan to BIM 2014.1 build upon the software’s successful record of enhancing workflows and improving productivity for teams taking advantage of point clouds. Watch Scan to BIM’s newest features in action in this [series of short instructional videos](#).

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Scan to BIM's new **Section Box Tool** improves navigation through the point cloud so users can immediately focus on the area required and quickly complete the task. Users can toggle to point cloud 'on/off' with just one click and control the direction in which they step through the model based on designated distance and direction.

Scan to BIM's new **Create From CAD Pipe Tool** allows large amounts of Revit piping to be built from Autodesk® AutoCAD®-based cylinders or pipe centerlines extracted from other programs and brought into the Revit model.

The new **Quality Assurance Tool** improves both productivity and quality by clearly showing users which entities in the point cloud have been quality assured, resulting in more accurate and reliable data for future use. Now users can step through each pipe or wall element and mark it as approved, make adjustments or move on to the next element.

Live Online Presentation

The developers of IMAGINiT's Scan to BIM are hosting a free webcast on February 5, 2014 at 10 AM and 2 PM (Eastern Time for North America). Attendees will learn about how Scan to BIM's capabilities will save time and increase productivity, making projects more profitable. The live webcast is free, but [registration is required](#).

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Latest Release of Aras EPLM for SolidWorks EPDM Enables Best-in-Class Multi-CAD Management Performance

27 January 2014

Aras® today announced from the exhibit floor of SolidWorks® World 2014 (booth #434) availability of the latest release of Aras Enterprise PLM (EPLM) for SolidWorks Enterprise PDM (EPDM). The new release features a series of CAD-focused enhancements enabling best-in-class multi-CAD performance for companies running SolidWorks that also need to manage designs in CATIA V5, NX, Creo and other MCAD and ECAD applications. Additional highlights include TRUaras secure cloud-based file exchange, Windows 8, IE10, Windows Server 2012 and SQL Server 2012 support along with a series of other scalability, performance and usability improvements.

See a Demo of Aras EPLM and Learn More at: <http://www.aras-eplm.com/>

Aras EPLM is the best PLM software for global businesses that rely on SolidWorks and have complex products and processes. Built on top of SolidWorks EPDM, Aras EPLM is a full-featured PLM suite that extends EPDM with a Web-based interface and business processes for cross-functional collaboration throughout the company and across the supply chain.

“We understand that SolidWorks users with complex global design environments need better multi-CAD capabilities for faster performance and greater scalability than they’ve been able to get from the other major PLM systems,” said John Sperling, Vice President of Product Management at Aras. “By unifying our CAD data model across mechanical and electronics and enhancing our APIs, we are delivering a new level of multi-CAD management performance in this release of Aras EPLM.”

Best In Class Multi-CAD Performance

A 10X increase in speed and 10X reduction in memory make Aras EPLM the fastest PLM platform for Multi-CAD check-in / check-out. The check in / out process for entire CAD assembly structures is automated and streamlined with new check-in / check-out manager capabilities.

A rapid status check for an entire CAD structure, a single compressed metadata commit and high-performance parallel, asynchronous file check-ins for each level of the CAD structure give Aras EPLM users greater reliability and faster performance.

Cloud-based Secure File Exchange

Aras EPLM now embeds file transfer capabilities called TRUaras from Trubiquity, a global provider of secure file exchange services in the Cloud. TRUaras is a free service for companies that run Aras which provides unlimited transactions with no file size limitation.

With TRUaras users can securely share and exchange large CAD assemblies, technical data packages, manufacturing data, inspection and test results and other intellectual property with full tracking and traceability.

Expanded Microsoft Platform Support

Aras EPLM now supports Windows 8, Internet Explorer 10, Windows Server 2012 and Microsoft SQL Server 2012 taking full advantage of the Microsoft platform products for the scalability and manageability required by global companies.

Additional Highlights include:

- Check-in / Check-out Manager automated conflict detection
- Drag & Drop files from Browser Interface to Windows Folders
- Improved One-Click Excel & Word Data Export
- New Visual Indicators in the Grid Display
- New User Personalization and Configuration Capabilities
- Expanded Multi-Level Table of Contents Navigation
- Affected Items Impact Matrix Improvements
- Multi-language Installer Capabilities

- Silent Installer for Virtual Machines, Server Farms and Cloud Environments

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MagNet for SolidWorks Coming in 2014

27 January 2014

Infolytica Corporation announces today that MagNet for SolidWorks, an entirely new software package developed by the company, will be officially launched in 2014. SolidWorks® users who need to design and analyze electromagnetic or electromechanical devices can use this new tool directly in their preferred CAD environment.

MagNet for SolidWorks is an entirely new product from Infolytica Corporation which embeds an electromagnetic field simulator as an add-in to Solidworks 2013 or later. It uses the same 3D EM finite element technology that is in the company's MagNet 2D/3D simulation software.

The advantage is a device can be simulated and analyzed with Infolytica's electromagnetic solver technology directly in Solidworks' native solid modeling system without any geometric translation or model import. Using just one environment for modeling and design is both convenient and more efficient for the user.

More details about the first version of MagNet for SolidWorks will be available in the first quarter of 2014. Until then, a web page with some images and other highlights of this new product has been posted on the company's website at <http://www.infolytica.com/mfs/>.

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New Software Identifies Laser-Profiled Parts

28 January 2014

The latest version of Bystronic's CNC software controlling its laser profiling machines enables labelling of cut parts, ensuring that bending is carried out correctly afterwards. PartID is a new function within BySoft 7 that automatically laser-engraves cut parts with an identification code.

When the component is transferred to a Bystronic pressbrake, the code is scanned to ensure that the correct bending program is loaded. The risk of human error is lowered and mix-ups with similar parts eliminated, raising process reliability, saving time and reducing scrap.

PartID within Bysoft 7 is applicable to all of Bystronic's laser cutting machines, both CO2 and fibre.

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Subsequent processing machines must be fitted with ByVision Bending, the Swiss manufacturer's graphical user interface for pressbrakes, and an additional scanning unit. For customers with and without Bystronic bending machines, the code can be useful to recognise the part by scanning with a smart phone or similar device.

Parts removal in Plant Manager

Plant Manager, another BySoft 7 module that plans and monitors laser (and waterjet) cutting processes, has also gained a new feature, called Parts Removal. It provides visual support to the operator when unloading cut parts at the shuttle table.

All of the parts that belong to a customer order can be colour-coded on the cutting plan and are clearly distinguishable from parts required for other orders. First and last cut parts can be labelled so that the machine operator recognises when an order begins and when it is completed. After the finished parts have been unloaded, the operator has the option of registering the status on the control screen to facilitate traceability.

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PDF3D Launches ParaView Plus to Improve Data Share within the Global Engineering Community

31 January 2014

After the success of PDF3D's Version 4 release of their ParaView plugin for 3D PDF conversion, the company's developers have been working closely with engineers from a number of disciplines and industries throughout the world to create the new integrated application, [ParaView Plus](#).

ParaView is an open source application designed to visualise both large and complex scientific data on super computers as well as on a smaller scale on laptops and personal computers. PDF3D has taken this platform and built on it over the years to encompass animated, interactive 3D PDF publishing features.

"ParaView Plus is a combination of our most popular features from the original ParaView plugin, plus our best ideas from our recent developments in the Geospatial arena. It not only assists professionals working within earth science industries such as Oil & Gas, but also enables engineers from simulation, scientific research and biomedical backgrounds to do much more with their data", explained Ian Curington of PDF3D.

Having spent the final months of 2013 refining the features of the eagerly anticipated solution, [ParaView Plus](#), based on ParaView 4.1, now works seamlessly with a range of files and formats, including 3D CAD, [GIS grids shapefiles and images](#), COMSOL analysis results, Point Clouds and OpenFOAM CFD data, to pull information directly into fully interactive, high resolution, animated scientific visuals in 3D PDF.

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"As with every product in the PDF3D suite, our sole aim is to make life easier for those working with highly technical, complex data. The technology used by engineers and scientists, whether that be CAD software or data visualization systems like ParaView, is moving at an incredible rate. Our job is to keep adapting our PDF conversion tools to enable our users and developers to turn their data into information that can be viewed and shared by anyone, no matter how technologically advanced their own software is."

[ParaView Plus](#) is now available to download from the PDF3D website. To find out more about the new features in ParaView Plus visit www.pdf3d.com for videos, trials and downloads.

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SPRING Technologies announces NCSIMUL Machine 9.1

27 January 2014

[SPRING Technologies](#) has a 30-year track record as a vendor of solutions that enable manufacturers to optimize ROI on their NC machines, maximizing productivity and reducing costs. Now, SPRING Technologies announces the latest version of NCSIMUL Machine 9.1, its flagship machining simulation software.

THE MAIN NEW FEATURES OF NCSIMUL MACHINE 9.1

Highlights

- Simulation of composite material laying
- Complete integration of the [NCdoc](#) document publication module
- Automated functions to enhance user experience

Simulation of COMPOSITE MATERIAL LAYING

The result of several years' collaboration with major aerospace customers, NCSIMUL Machine 9.1 today makes it possible to replicate material laying processes executed by Numerical Control machines.

Just as it does in conventional machining, NCSIMUL Machine 9.1 decodes all types of NC programs, representing the complete machine environment in 3D to identify and analyze programming errors and collisions. The "Composite" option of this version also enables a dynamic representation of fiber ribbon laying, taking into consideration the 3D form of the carbon fiber. The positioning of each fiber in the ribbon is managed independently.

NCSIMUL Machine 9.1 alerts users to issues that are specific to the way Composites are processed and that are liable to occur on real-world machines: these include fiber steering angle errors generating possible deviation, twisting of taut fiber between the head and the position on the spool, fiber tension issues including speed disparities between fibers or sudden changes of direction creating backwards

laying.

Analysis functions can be used to communicate information to the Process Planning department and the Design Office before going live. This includes the length of the laid material, layer thickness measurement, fiber ribbon intersection angle, aperture radius, etc. The section plane function gives insights into layering or possible holes in the material. At any time, you can export the fiber path or the end result of the material laying generated on the tooling in CAD format.

NCSIMUL Machine 9.1 takes into consideration the shape of the initial tooling and the tension applied to the fibers. SPRING Technologies has developed very fast new algorithms enabling fiber laying simulation with performances of 300 m/min. on a conventional CAD workstation.

All the functions dedicated to Composite technology are grouped together in a new Ribbon (Office mode) for a fast effective learning curve.

CREATION AND SYNCHRONIZATION OF THE DOCUMENTATION in just a few clicks

The NCdoc add-on is now fully integrated into NCSIMUL Machine 9.1. As for the Composite option, the technical content publication functions are accessed via a specific ribbon in the software's MMI. In just a few clicks you can create a set of documents for the shop floor from machining simulation information (tool sheets with associated times, tooling assembly sheets, machining results between operations, internal check sheets, etc...). The pages can be edited: by right-clicking, you can insert the 3D view of the machining in the document, while markup functions are also accessible to enrich the document if required before exporting the document in PDF or HTML format.

With NCSIMUL Machine 9.1, you can also link a page in the document set to an NC program block. A project exported in NP3 format now encapsulates the associated document, maintaining the links between pages and blocks. The NC operator viewing the simulation can use the free viewer, NCSIMUL Player 9.1, to bring relevant information up on the screen while displaying the simulation.

MORE THAN 50 NEW FEATURES including

Automatic saving of intermediary rough stocks saves time, notably on programs that involve multiple machining operations. Intermediary rough stocks produced during a simulation are saved automatically at each tool, program, or sub-program change. This makes it possible to replay the simulation from the latest valid rough stock before the detection of an error (collision, alert, etc.) or a change, without having to start over.

Automatic removal of support lugs from the rough stock at the end of the simulation has been added. NCSIMUL Machine 9.1 automatically recognizes support lug information in order to keep the simulated part and not the associated scrap.

NCSIMUL Machine 9.1 currently enables machine accessories to be positioned automatically by

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processing the contact with tailstocks, rests and chucks on the machined rough stock. The tailstock, for example, will be positioned alone, in contact with the machined rough stock. With this new feature, the rests are closed as soon as they touch the machined rough stock. This is a major time-saving development enabling the job to be set up and built very quickly.

To facilitate data exchange, the latest version of NCSIMUL Machine 9.1 offers a new CAM interface with Alphacam 2013, in addition to the existing CAM interfaces.

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xLM Solutions Joins Aras Partner Program to Provide PLM Migration Services for ENOVIA SmarTeam to Aras Innovator

30 January 2014

Aras® today announced that xLM Solutions, a PLM consulting and systems integration firm with U.S. headquarters in West Bloomfield, Michigan has joined the Aras Partner Program. Specializing in ENOVIA SmarTeam, xLM Solutions provides deep expertise in PLM migrations to help companies using SmarTeam and other legacy PLM products plan a path forward with Aras and move to Aras Innovator's PLM platform and suite.

“Companies managing CATIA V5, SolidWorks and other CAD systems with SmarTeam are recognizing that Aras is a logical PLM direction because of the out-of-the-box functionality, flexible Web-based technology and subscription business model,” said Marc Young, managing director of xLM Solutions. “Whether it’s a complete migration to re-platform or an integration to pockets of working functionality like CAD file management, xLM enables users of SmarTeam and other PDM systems to take full advantage of Aras’s PLM solutions enterprise-wide.”

xLM Solutions provides end-to-end Lifecycle Management and IT services that include requirements analysis, migration planning, solution implementation, customization, and systems integration. The xLM team consists of experienced technology consultants, business process specialists, software architects, developers and integration professionals. More information at <http://www.xlmsolutions.com/>

“As companies of all sizes look to the future and the development of their next generation innovations, the rapid rate of change and growing complexity in products and processes are forcing businesses to re-platform and move to our more modern, flexible and scalable PLM solutions,” said Peter Schroer, President of Aras. “With extensive knowledge in migration strategies xLM Solutions is uniquely qualified to help companies move from older PLM technologies that no longer support their needs like SmarTeam to Aras which is designed to get them up and running quickly and provide PLM capabilities for the future.”

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