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CIMdata News

CIMdata Announces Successful 2013 North American Market & Industry Forum and Releases Its 2012 PLM Market Analysis

11 April 2013

CIMdata, Inc., the leading global Product Lifecycle Management (PLM) management consulting and research firm announces the successful completion of its 2013 North American PLM Market & Industry Forum—the first in a series of four global events. This forum was held in Ann Arbor, Michigan, USA on 9 April 2013 with 58 PLM industry participants representing 30 leading global PLM solution providers.

CIMdata's PLM Market & Industry Forums are the world's premier gathering of technology and service providers focused specifically on the PLM market and the issues concerning its development and growth. Participants gathered to hear CIMdata's perspective on the state and trends of the PLM market, as well as a detailed discussion of CIMdata's research and viewpoints on the 2012 PLM market results. These included CIMdata's extensive analysis and forecasts regarding market growth across PLM domains, industries, and regions, and the performance (revenue and market share analysis) of leading

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PLM solution providers.

In CIMdata's annual "State of PLM: Today's Market and Leading Trends" address, Peter Bilello, CIMdata's President, stated that "While the PLM market continued to grow last year, the third and fourth quarters proved to be sluggish for many PLM solution providers. The 'New Normal' in the business environment, which requires companies of all shapes, sizes and industries to do more with less, continues to drive industrial companies to pursue and implement PLM strategies." He added, "The new social-savvy workforce and the manner in which they expect to communicate and collaborate is changing the way companies execute projects. In many ways, product development as we have known it is dying. To support this significant movement, CIMdata has formed a Social Product Development & Collaboration PLM Knowledge Council to research topics of importance to both industrial companies and solution providers."

In Mr. Bilello's concluding remarks, he commented that significant opportunity still exists in emerging markets and industries, as well as mature ones. He went on to say, "As the market moves forward, the challenge will be how to best enable the new social ways of working. This is a challenge for PLM solution providers as well as industrial organizations."

Commenting on the PLM market in 2012, Stan Przybylinski, CIMdata's Vice President of Research, said, "The year started out looking to be just as strong in 2012 as it was in 2011, but slowed in the second half, resulting in total revenues below our forecast." Recent statistics compiled by CIMdata show that the Comprehensive PLM market experienced 11.3% growth in 2012 to \$33.3 billion. Mr. Przybylinski added, "Growth moderated in some segments, like mechanical computer-aided design (MCAD), while simulation & analysis (S&A) continued its rapid expansion." A wide range of companies in many industries continued investing in PLM to achieve short-term benefits as well as long-term strategic value throughout the product lifecycle and across their extended enterprises. "CIMdata has long defined PLM as a strategic imperative to achieving long-term strategic value, and this year's market statistics and our other market research with end user companies still supports that view," noted Mr. Przybylinski.

In addition, the agenda included sessions on trends in the market based on CIMdata's PLM Knowledge Councils, a set of collaborative research panels, that bring together leading end user companies and PLM solution providers to help advance the state-of-the-art and best practices in emerging product lifecycle management disciplines. Sessions included "Cross-Disciplinary Collaboration," "Democratizing Simulation to Improve Decision Making," "Changing Decision-Making Dynamics in CAD," "Big Data and PLM," "Visual Decision Making," and "Mobile Applications in PLM." The North American PLM Market & Industry Forum is the first in a global series, with the next session scheduled for 16 April 2013 in Frankfurt, Germany. Forum sessions will follow on 19 April in Beijing, China, and 24 April in Tokyo, Japan.

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

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You can read tweets from the event at #PLM4um.

CIMdata's 2013 PLM Road Map conference in conjunction with PI Congress and will take place on 9 and 10 October at the Hilton Chicago Indian Lakes Resort.

About CIMdata

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

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

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PLM for Recipes & Formulas: a CIMdata Commentary

10 April 2013

Key takeaways:

- *Process industries have shifted their focus from ERP and MES to managing the complete product definition from concept through retirement.*
- *Accurate regulatory compliance, labeling, and claims management are key issues for companies developing and producing formulated products.*
- *Siemens PLM Software's SIMATIC IT R&D Suite provides deep capabilities to support formulated products.*

PLM for Process Industries

While process industries including food and beverage, specialty chemicals, and cosmetics have had PLM solutions available to them for many years, those solutions have not received the same level of attention as have their counterparts for discrete industries. Focus has shifted however, and PLM for process industries is now receiving significant attention and investment. Over the past decade or so it

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had supported production with enterprise resource planning (ERP) and manufacturing execution system (MES) technology. Now, PLM for process industries is focused on managing the complete product definition from concept through retirement, as it is for discrete industries. The goal is to enable the faster, more efficient, and higher quality manufacture of formulated products.

The product definition of a formulated product is a structure of items including the package or container, the artwork, the label, and of course the formula and recipe for the product. The product can be made in batches or in a continuous manner. The recipe includes the equipment needed for production, the ingredients, instructions on how to configure the equipment (e.g., required mixing time and temperature), and the procedure to combine the ingredients. The formula definition is the process industry's bill of material, and the recipe is the equivalent of the manufacturing routing and related instructions.

A formulated product structure is directly analogous to a discrete product's BOM structure. A finished discrete product consists of an assembly containing sub-assemblies and individual parts. A formulated product contains intermediate products or groups of ingredients that correspond to sub-assemblies, and individual ingredients that correspond to parts. Packaging is required for both formulated and discrete products. Each also has integrations to authoring tools like Microsoft Office and enterprise software solutions like ERP and MES. Process and discrete PLM solutions both support regulatory and labeling requirements. Finally, both need to manage change to ensure that the product has the correct configuration and traceability.

PLM for the process and discrete industries differ in several ways as well. In a discrete environment, users and especially authors are typically engineers and designers. Within the process industries, the corresponding people are scientists and chemists. Discrete parts and assemblies are defined with 3D models and 2D drawings; formulated products in process industries are described by specifications. Units of measure differ: most items in a discrete product are measured in integer quantities; within formulated products the units of measure are typically weights and volumes, and items may have different units such as ounces, pounds, and gallons, or in the metric system grams and liters. Production of a formulated product usually causes a chemical reaction, which may create byproducts that are removed from the finished product. Packaging for formulated products can be extremely complex; the packaging needs to be designed so as not to create a chemical reaction with the formulated product, which can cause product contamination or even an explosion. In the discrete world, regulatory issues primarily consist of security issues such as those imposed by ITAR and hazardous substance reporting, which affect only a subset of manufactured products. Formulated products actually contain more hazardous substances than discrete products, including some that are byproducts of reactions, and are subject to many country-specific restrictions. In cases such as pesticides, the product itself is hazardous.

For products such as food and beverages, ingredient lists must be included on the labels. Some items can be represented as a single ingredient, though sometimes an ingredient needs to show its constituent materials. For example, lemon juice may need to be shown as concentrate and water if it is reconstituted during production. Product optimization is commonly done within the PLM solution in the process industry, while in discrete industries PLM solution optimization is done in authoring tools such as finite element analysis or with CAD applications.

Issues

The process industry has the same high level issue that all other industrial companies have: to get the right information to the right people at the right time. Data and documents need to be captured, managed, and validated. Processes need to be repeatable and approvals need to be captured. Key areas that need to be addressed with process industry PLM solutions include: document management, regulatory compliance, labeling, claims management, MES integration, and combined products.

Document Management

The process industry is specification driven and historically much of the data has been stored as Microsoft Word or Excel documents or as PDFs. To ensure that these files are properly managed, basic document management is necessary to control check-in, check-out, and change management. This control also implies that documents must be logically centralized. When specifications are stored in documents, much of the information ends up being duplicated, especially when derivative products or product families are created.

Regulatory Compliance

Regulatory requirements have a major impact on the process industry. The data describing regulatory requirements is published by countries or in some cases states, in forms including databases, electronic documents, and paper. There is no single source for all the regulations. To be efficient, product developers need to validate that the products they are developing meet requirements early, and throughout the development process. In addition during production, products need to be validated regularly to ensure that the product or process are not impacted by new requirements.

Labeling

Labeling products within the process industry is tied closely with regulatory requirements. Incorrect labels are an expensive issue and may require a product to be scrapped or even recalled. Regulatory requirements typically define what must be included on a label; ingredient lists and hazardous substances are common data elements. International shipments can cause even more labeling complexity, as the label will need to conform to requirements from multiple governmental entities. Another concern with labeling is putting too much information on it thus giving away proprietary information. Important ingredients may not need to be reported if they are below specified reporting thresholds.

Claims Management

Claims are especially important within the food and beverage industry; typical claims include “kosher,” “low fat,” and “heart healthy.” Ensuring that the ingredients and processing all meet their claim is a critical task. For example, if a product makes a claim to be kosher, all the ingredients must adhere to a strict kosher specification. If a supplier modifies an ingredient so it no longer meets the kosher specification, then the product containing that ingredient is no longer kosher, the claim cannot legally be made, and the product cannot be sold with that label. A well-implemented change management process helps to ensure that ingredient changes don't violate product claims.

MES Integration

MES integration can be a critical capability when production is in-house. By transferring data including recipes and specifications from PLM to MES via electronic workflows, processes become more reliable and repeatable. Transferring equipment settings and parameters improves control that helps to ensure consistent quality. Production results reported from MES provide feedback so developers can improve formulas and recipes.

Combined Products

Combined products, products with both discrete and formulated items in the bill of materials, have always existed, but historically they have been managed in separate non-integrated solutions. Within some products there is a tight coupling between formulation and the discrete structure, e.g., a pharmaceutical product and its delivery system, or a beverage and its container. Enabling cross-disciplinary access to information, including the change process, can reduce the risk of a change impacting another domain.

SIMATIC IT R&D Suite

Information technology (IT) has become a key component across all aspects of business. While IT has been used strategically for business transactions for decades, the strategic application within product development and production is more recent. Siemens PLM Software is investing in vertical and industrial IT with its SIMATIC IT portfolio, a complete solution for the process industry, in order to promote its growth.

SIMATIC IT R&D Suite provides support for product development; SIMATIC IT Production Suite provides MES capabilities; and the SIMATIC IT Intelligence Suite supports reporting and decision making. In addition to providing a standalone environment, the SIMATIC IT portfolio has an out-of-the-box integration to SAP ERP, and a tight integration is also available to Teamcenter, Siemens PLM Software's discrete PLM solution. The Teamcenter integration enables the management of combination products containing both discrete and formulated items, such as consumer-packaged goods, and provides enterprise-level capabilities like project and portfolio management. The SIMATIC IT R&D Suite is an integrated set of modules used to support the development of formulas and recipes, as illustrated in Figure 1.

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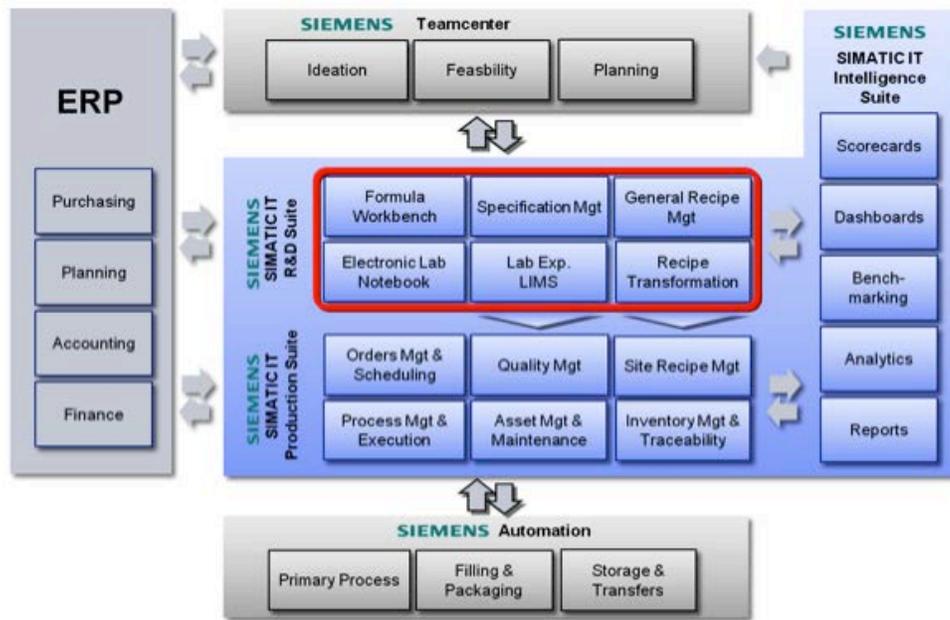


Figure 1—SIMATIC IT R&D Suite Modules
(Courtesy of Siemens PLM Software)

SIMATIC IT Interspec, the specification management module, is the repository for specification documents describing raw materials, ingredients, formulas, recipes, and equipment. In addition to managing documents as files, it also can manage specifications as intelligent data records. This allows more granular management of the data, minimizing duplication. Documents can then be dynamically assembled from individual controlled data fields. A workflow engine supports business processes including change management, ensuring that specifications and recipes follow the appropriate approval process.

The Formula Workbench module allows scientists and R&D staff to develop and optimize new formulas. Existing ingredients, formulas, and recipes can be found by searching the specification repository across a variety of attributes. If an appropriate formula or recipe is found, it can be copied for use as a starting point. If necessary, new ingredients can be created, or a new formula started from scratch. Formula value roll-ups can be calculated including, e.g., nutritional content, cost, yields, and scrap. An optimization solver is available to adjust the formula based on rolled-up or individual targets. By leveraging data from the repository, the formula development-process timeline can be shortened and costs reduced because previously validated items can be used.

Regulatory and labeling functions are closely related within the SIMATIC IT R&D Suite. The regulatory database can support multiple regions for international distribution, and assessments can be done on rolled-up or calculated values. Hazardous substance and allergen assessments can be configured as rules. It is important to note that the regulatory assessment can be done repeatedly during development, and can also be run against released formulas to ensure that new regulations do not impact items already in production. The final piece of the regulatory functionality is assessing and validating claims.

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Correct labeling is critical for formulated products. The label must be accurate and display legally required information, including hazardous substances, ingredient lists, and depending on the region, constituents. The labeling capability in SIMATIC IT R&D Suite supports region-dependent ingredient lists and multiple languages.

The Electronic Lab Notebook module provides access to the specification repository, Laboratory Information Management System (LIMS), and to MES. It provides a centralized, secure place to manage and share knowledge. Workflows are supported as well. Test plans can be defined and access to historical lab results are available, so duplicating experiments can be avoided. The LIMS module supports data collection from a wide variety of lab equipment.

The General Recipe module graphically assembles the formula, the equipment required for production, the production procedure including detailed parameter settings, and associated work instructions. The general recipe is a superset of the information required for all possible local options and simplifies the transformation to a site- or line-specific recipe.

Recipe transformation is a process where a general recipe is scaled and/or transformed, so the product can be manufactured in a particular plant or production line. Transformations can include mapping ingredient and process parameters to match the local requirements, through rearranging process steps to match equipment capacity or availability.

Closing Comments

Businesses face many pressures and risks in today's marketplace. Managing the product definition is critical to the process industry, and is a key element to business success. Complex spreadsheets, email, and file shares do not provide adequate control of product lifecycle data. PLM solutions like Siemens PLM Software's SIMATIC IT R&D Suite help companies to manage their formulated product definition. Centralizing and controlling specifications and other product-related data makes information easier to find and improves the confidence that it is the right data. Applications like regulatory assessment and label creation take advantage of the centralization and improve the quality of the product.

Siemens PLM Software's SIMATIC IT R&D Suite provides excellent, standalone support for a broad range of process-industry PLM issues. It also can be integrated with ERP, MES, and Teamcenter to provide end-to-end or "top floor to shop floor" control. Companies that need a PLM solution to support process industry issues should evaluate SIMATIC IT R&D Suite from Siemens PLM Software.

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

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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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SAP 3D Visual Enterprise: a CIMdata Commentary

11 April 2013

Key takeaways:

- Making better-informed decisions produces better business results.
- Presenting product- and business-related information three-dimensionally makes digital content more accessible and understandable to users.

This is a visual world. Using 3D graphical images of products in development or of facilities being managed makes digital content more accessible and understandable to users, because most people find 3D visual representations easier to comprehend than tabular data, lengthy textual descriptions, or drawings. When joined with other business data associated with an item being viewed, stakeholders gain stronger insights relative to the everyday assessments and judgments they must make to deliver value. Such visual decision making can improve productivity and otherwise increase the corporate bottom line—i.e., making better-informed decisions produces better business results.

The SAP 3D Visual Enterprise solution affords SAP and non-SAP customers alike the ability to interact with 3D images of their products, business information, and facilities in order to accelerate decision making within and across the full range of business domains. Decisions are based on more perceptive views of relationships across the business, which facilitates optimized productivity and improves product quality.

Product developers and facility managers struggle continuously with large volumes of complex data. Locating needed data at any point in the business process let alone understanding its relationships with other product and business data can be a slow and daunting task. A non-graphical data interface forces product developers and facility managers to interact with long lists of text and numeric records in their data management solutions. At best this adds to schedule delays and inflated costs. At worst, missed insights into data relationships buried within large quantities of text and numbers can adversely affect the quality and cost of decision making. Applying 3D graphical data to more traditional text-and-numeric data interfaces helps users to better understand and manipulate the data. Graphical interfaces align with the broad trend of user interaction seen within the commercial marketplace (e.g., smart phones and mobile devices).

In today's challenging marketplace, products and facilities are growing in both complexity and in the

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volume of data needed to support that complexity. At any point within the flow of the product development process, the ability to visualize 3D images of components and assemblies that make up the product or facility helps users better understand and deal with the mass of data. They can use the images to better direct action or explore relationships between components.

The level of sophistication in today's products is a direct outcome of teams of designers across multiple disciplines contributing their expertise in mechanical, electrical, and software engineering. Often contributors to the design are dispersed geographically and reside in different supply chain companies. Progress on a product design requires close collaboration within and between the development teams. With the potential overload of data being exchanged, the inclusion of 3D and even 2D visual content can enhance that communication.

In engineering, stakeholders often face the challenge of exchanging and sharing design model data authored in different applications. The transfer of information across these multi-CAD environments can easily impede collaboration. SAP 3D Visual Enterprise supports a broad range of 2D and 3D data formats for designs that may be included by diverse development teams, alleviating multi-CAD roadblocks. In addition, project and program managers can more readily engage non-CAD users in the development process through the use of the 3D Visual Enterprise Viewer.

In the manufacturing or construction realms, 3D product graphics can be used by senior product manufacturing engineers to instruct workers directly on the factory floor or through mobile devices at construction sites. They can also take advantage of 3D visual displays as they prepare their process plans, leveraging the rich graphics to explore complex product options and configurations. The impact of the visual representations can often help them recognize potential manufacturing problems or common manufacturing sequences that can be reused. Without those visual cues missed opportunities can potentially result in negative impacts on product quality, higher manufacturing costs, and lower profitability.

Benefits extend to sales and marketing organizations that are under tremendous pressure to produce revenue in a highly competitive worldwide marketplace. Leading-edge marketers use 3D graphic images of virtual products to help guide requirements discussions for new product sales. Capabilities provided by SAP 3D Visual Enterprise allow these non-CAD users to easily work with images and photorealistic displays of the product. The 3D visual presentation of virtual product data gives potential customers a more comfortable and better understanding of what the solution provider can deliver. The 3D images give companies an advantage that can help close the sale.

In addition, given the worldwide demographics of most companies, as new products and product configurations are delivered, massive training problems arise for field support staff. Many personnel speak different languages and the preparation of training manuals in each language can easily delay product distribution and adversely impact sales ramp-up. However, with 3D visual depictions of products, step-by-step installation and repair documentation can be authored with a greatly reduced, if not fully eliminated, need for text.

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All industry segments are experiencing an increase in product sophistication and in the growth of supporting data behind the resultant complexity. Development tools with conventional user interfaces with lists of text, 2D drawings, and numbers fail to provide proper insight into the information needed to advance product development in a timely manner. Visual decision making is proving to be the mechanism to reenergize these tools.

The SAP 3D Visual Enterprise solution gives clients a best-in-class implementation for presenting 2D, 3D, and other business-related information in applications and documents across the full product lifecycle. Users are well served by the technical expertise and business acumen that SAP provides in SAP 3D Visual Enterprise.

About CIMdata

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SAPinsider 2013: Leading the Way in In-Memory Applications: a CIMdata Commentary

10 April 2013

Key takeaways:

- *Over the last several years the SAP PLM portfolio of solutions has made great strides, making the question “why not SAP?” harder to avoid for potential customers and competitors alike.*
- *SAP's in-memory technology, HANA, is providing significant revenues just a few years from its late-2010 launch.*
- *Over the next few years, additional SAP offerings will be built upon HANA to leverage its ability to rapidly analyze and visualize big data.*

SAP collaborated with its long-time partner, Wellesley Information Services (WIS), to hold their tenth SAPInsider event from March 3 to 8 in Las Vegas, Nevada. Over 1,500 people attended tracks on enterprise resource planning (ERP), supply chain management (SCM), customer relationship management (CRM), and product lifecycle management (PLM).

The keynote from Steve Lucas, Executive Vice President, SAP Database & Technology, highlighted SAP's 2010 in-memory product introduction, HANA. In the presentation, titled “Business Suite on

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HANA: Innovation at the Speed of Imagination,” Mr. Lucas used some facts to emphasize just how much (and how fast) the world is changing:

- Globally, there are more mobile devices than people.
- The amount of data produced and managed is doubling every 18 months.
- The “middle class” now includes over 5 billion people worldwide.
- One billion people are on Facebook.
- By the end of 2013 there will be over 15 billion Web devices.

SAP’s in-memory applications are known for helping people work faster—from 10 to 10,000 times faster according to Mr. Lucas. SAP is introducing over 400 optimizations for the top 500 SAP reports, making them 1,300 times faster. Beyond just speed, Mr. Lucas also claimed these in-memory applications will make our business lives simpler, and help us work smarter. The clean, streamlined user interfaces seen in the demonstrations showed how much easier it was to access and analyze large volumes of information. The graphics and analytics capabilities demonstrated how easy it was to make quick, optimal decisions based on the most up-to-date information. Over the next few releases, according to Mr. Lucas, SAP will build increasingly more solutions on top of HANA to provide added benefits, including SAP Portfolio and Project Management (PPM), which is part of the SAP PLM portfolio of solutions.

The SAP PLM keynote also highlighted some product and implementation enhancements. Over the last several years, SAP has had great success with their SAP PPM offering, which primarily supported three use cases: capital project management, IT portfolio management, and new product development and introduction (NPDI). SAP recently introduced a fourth business process, commercial project management, for companies in the business of running projects, such as construction and engineering-to-order companies. The solution integrates SAP PPM with their ERP offering to bring in cost and revenue data, and other necessary information. Early customer feedback is promising and the solution is currently in the Ramp Up phase, a precursor step to general availability.

SAP is also moving beyond their traditional Environmental Health and Safety (EH&S) offering to something they call “Embedded Product Compliance,” which will include compliance analytics and dashboards for standards like REACH (Registration, Evaluation, Authorisation, and Restriction of Chemical substances).

Finally, the SAP PLM Alliance (<http://www.sapplmalliance.com/>) historically focused on direct integrations between leading mechanical computer-aided design (MCAD) systems and SAP PLM. Strong MCAD integration capabilities are essential to support discrete manufacturing firms who want to manage their CAD-centric product development processes using SAP PLM. Improvements in these capabilities have helped SAP and their alliance partners claim more customers over the last several years. To get to the next level of tool integration, SAP made significant investment in 2012 in a new “Authoring, Simulation and Tools Integration Framework” for MCAD integrations that over time will extend to other authoring and analysis tools, such as electronic design automation (EDA) and simulation & analysis (S&A).

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When attending these events, it is important to spend time with alliance members, as they have their fingers on the pulse of SAP PLM's evolving capabilities to manage "engineering work-in-process." A conversation with one partner revealed that in 2012 they worked with seven major companies, mostly in industrial equipment, that were considering SAP PLM after a long-time commitment to another PLM solution provider. Two made the decision to change, and the other five are still in play. This partner claimed that they were winning half of the technical benchmarks on such accounts. Examples like these suggest that the question of "why not SAP?" for managing engineering-centric product development may be getting a new answer.

SAP is known for publishing wide-ranging product roadmaps, and making slow and steady progress on them. At this event, their SAP PLM "maketecture" included systems modeling, simulation data management, electronic design automation (EDA), and application lifecycle management (ALM). All these potential additions will require integrations of 3rd-party solutions with SAP PLM. The new Integration Framework and their PLM Alliance provide the technical and business framework to achieve these goals. The introduction and rapid uptake of SAP HANA (in 2010) and SAP PPM show that maybe these long timeframes can be shifted, making SAP a more nimble competitor. Their Rapid Deployment Solutions (RDSs) are designed to get new solutions into customers' hands more quickly, reducing time to value. With SAP ERP already in place at thousands of manufacturers, the market opportunity is right in front of them.

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

TCS to Acquire IT Services Firm ALTI for €75 Million to Help Drive Long-term Growth in France

9 April 2013

Tata Consultancy Services announced that it has signed definitive agreements for the acquisition of 100% equity shares in Alti SA, an IT services company in France, for a value of €75 million in an all-cash transaction. The acquisition will strengthen TCS' ability and footprint to service its customers in France and other regions in Europe.

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Alti SA is a leading French technology services firm with strong expertise in IT services including enterprise solutions, assurance and CRM solutions. It is a privately-held company owned by its management and two private equity funds, CM-CIC LBO Partners and IDI, which supported its growth from a revenue base of €64m in 2007 to €126 m in 2012. Regarded as one of the top five system integrators of enterprise solutions in France, its key customers comprise several top French corporations in the banking, financial services, luxury, manufacturing and utilities sectors. The company has 1,200 employees based in France, Belgium and Switzerland.

The transaction is subject to customary closing conditions.

N Chandrasekaran, CEO and Managing Director, TCS, said, “This acquisition underlines our long-term, strategic commitment to France, which is the third-largest IT services market in Europe. The acquisition of Alti SA will help us serve our clients in France and across Europe more comprehensively with an expanded set of services and solutions, bringing the best of TCS to French corporations. I am confident that this acquisition will help us accelerate our growth and presence in France.”

Assessed at over €30 billion, the France IT services market is the largest in Europe, after the UK and Germany. TCS has been operating in [France](#) since 1992 and has over 50 clients in the country, including several of the CAC 40. Over the last five years, TCS has significantly strengthened its position in the country through local hiring and investments. In recognition of these initiatives, the company had been conferred the special award for [Investment and Innovation by the Greater Paris Investment Agency](#) in 2012. This acquisition will propel TCS into the list of the top IT services firms in the country.

Andre Bensimon, co-founder, Alti SA, added, “This is a significant step that will benefit both our clients and employees. Supplementing our current services with TCS’ renowned global expertise will provide tremendous additional value to our clients; while our employees will secure the advantages of building their careers in a larger global organization, which is considered a top employer in Europe. ”

TCS had been rated earlier this year as a “[BIG 4](#)” brand in the global IT services industry, as a leader in customer satisfaction across various surveys and recognized as the [#1 ranked top employer in Europe](#) by the CRF Institute.

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Company News

3D Systems and Hawk Ridge Systems Announce Partnership for 3D Printing

10 April 2013

[3D Systems](#) announced today that [Hawk Ridge Systems](#), a leader in engineering design solutions and

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the top performing SolidWorks® 3D CAD solution provider in the world joined its expanding reseller network. Under this agreement, Hawk Ridge Systems will sell and support 3D Systems complete portfolio of [professional](#) and [personal](#) 3D printers and materials in the United States and Canada.

Hawk Ridge Systems brings over 17 years of 3D design experience delivering best-in-class engineering software solutions, including SolidWorks and CAMWorks® machining software. "By combining our superior 3D design software and experience with the most comprehensive 3D printing portfolio available today, Hawk Ridge Systems is positioned to provide the optimal design-to-manufacturing solution to our customers," said Dale Ford, President and CEO Hawk Ridge Systems.

Along with the expanded [ProJet®](#) line, Hawk Ridge Systems also plans to distribute 3D Systems' latest personal 3D printers, including the award winning [CubeX®](#). "We are excited to team-up with a proven, successful and experienced partner like Hawk Ridge Systems," said Avi Reichental, President and CEO, 3D Systems. "This partnership substantially expands our North American coverage through a world-class organization with a proven track record of delivering exceptional customer service."

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CADD Microsystems Honored for 25 Years of Collaboration and Achievements with Autodesk

10 April 2013

CADD Microsystems, an Autodesk Platinum Partner, announced that it has been honored by Autodesk for 25 years of collaboration and outstanding achievements. CADD Microsystems was recognized at Autodesk's One Team Conference held in Las Vegas, Nevada, last month.

"Our strong and enduring relationship with Autodesk is something we are extremely proud of," said Jeff Gravatte, CEO of CADD Microsystems. "We continue to work closely with Autodesk to solve our customers' challenges. After 25 years of growing our business, we have earned Platinum tier status, best-in-class customer satisfaction scores, and a track record of longevity in the industry. None of this would have been possible without our relentless focus on our customers' business, and we sincerely appreciate their loyalty and partnership throughout the years."

"CADD Microsystems has developed strong expertise in 3D design and used this expertise to help companies large and small realize the benefits of 3D to solve critical business challenges," said Bill Griffin, Vice President Worldwide Channel Sales, Autodesk. "It is a rare for a software company to have a quarter century relationship with its partners, so we're especially proud to have such a long history of success with our partners like CADD Microsystems."

CADD Microsystems has seen consistent success recently; the company was recognized by Autodesk as Reseller of the Year in FY2010, Partner of the Quarter three times in the last five years, and had one of its instructors win Trainer of the Year, as voted by students. CADD Microsystems also takes advantage of authorizations and specializations that Autodesk offers, earning AEC, MEP, Government, Consulting, Support and Fabrication specializations.

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Autodesk supports a number of initiatives for its global channel partner network, including establishing a renowned reseller recognition program; implementing a customer engagement program that has assisted in increased partner solutions sales; investing in channel capability through training; and forming a channel partner web portal designed to deliver resellers access to a wealth of resources, program material and news.

Taking advantage of these resources and its partnership with Autodesk has helped CADD Microsystems achieve continued success in the industry. "When we first opened our doors 25 years ago, from day one we had a long-term vision we wanted to achieve," explained Susan Thomson, CFO of CADD Microsystems. "I think our tireless pursuit of this vision, the dedication of our employees, and the support we receive from Autodesk have all played a part in our continued success, and we are thankful for the part that everyone has played in that."

"Given that we are in the business of technology, we always knew things would change at a rapid pace and that we'd have to keep pace with that change," explained Matt Davoren, President and COO of CADD Microsystems. "We have customers and employees that have been with us for more than 20 years, and we think that speaks volumes about the culture we have built. It has been a fun ride, to say the least."

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CAMCAD Technologies Named Top SURFCAM® Reseller in North America

8 April 2013

CAMCAD Technologies, Inc., a Central Florida-based provider of manufacturing software solutions to increase productivity and profitability, has been named the number one SURFCAM® value-added reseller (VAR) in North America for the month of March. The company is currently ranked number two in the world for SURFCAM® value-added resellers.

SURFWARE, Inc. is a provider of milling and metal cutting software solutions for machine shops across the world and developer of the global leader SURFCAM® CAD/CAM systems. In February the company announced that Vero Software had acquired their SURFCAM assets.

SURFCAM has experienced strong sales throughout the first quarter and attributes much of the success to regional resellers. "It is a difficult task to be a successful Software Sales organization today in any type of market," said Matt Soucy, Reseller Manager for SURFCAM. "SURFCAM is very fortunate to have such a loyal and dedicated organization of Software VAR's to partner with."

Founded in 1991 by Don McKillop, CAMCAD Technologies serves manufacturing communities across the Southeast with CAM software, edit-free post processors, custom applications, reverse engineering and contract part programming. In 2000, a CAMCAD customer presented a problem that couldn't be

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solved with off-the-shelf software. Thus, the company's custom software development for manufacturing applications was born.

"We're thrilled to be named the VAR for March," said Alison Wildblood, CEO of CAMCAD Technologies. "This recognition attests to our continued efforts to position CAMCAD as a trusted, customer-focused partner in the machining industry."

CAMCAD Technologies, Inc. has continually ranked in the top five for SURFCAM resellers for the past 17 years. In January, they were recognized as reseller of the month, and in 2009, they were awarded the prestigious title of SURFCAM Reseller of the Year.

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Delcam joins Coventry Manufacturing Technology Centre

8 April 2013

Birmingham-based CAD/CAM software developer Delcam has become a member of the flagship Manufacturing Technology Centre (MTC) in Coventry. The MTC is a key part of the UK Government's drive to make the UK the home of advanced manufacturing technologies. The MTC is part of the High Value Manufacturing Catapult which represents a partnership of seven technology centres focused on developing new processes and products for 21st century engineering projects.

As a member, Delcam will be able to become a partner in development projects with industrial members of the centre such as Rolls-Royce, Airbus and GKN Aerospace, and with many suppliers of complementary equipment, including machine-tool manufacturers DMG-Mori Seiki and Agie Charmilles, cutting-tool suppliers Sandvik Coromant and SGS, and metrology specialists Hexagon and Renishaw. MTC research partners include The Welding Institute, plus three forward-thinking universities from the region: Birmingham, Nottingham and Loughborough.

Commenting on the decision to join the MTC, Delcam Marketing Manager, Peter Dickin said, "With many of our customers and technology partners being members of the MTC, it was an easy decision for Delcam to join the organisation. We have worked closely with Birmingham University for many years and have also collaborated on projects with Nottingham and Loughborough Universities. Our MTC membership will help to reinforce these relationships."

Clive Hickman, CEO of the Manufacturing Technology Centre, commented, "The Manufacturing Technology Centre was set up to bring together the leaders in manufacturing innovation. Delcam's international reputation and long history of software development certainly puts the company into that category. We aim to provide the setting where the latest research can be translated into mainstream manufacturing technologies."

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One programme at the MTC where Delcam has already been heavily involved is the RECLAIM project, which has the potential to save UK industry millions of pounds by re-manufacturing high-value components that would otherwise have gone for scrap.

The process developed by the project uses laser cladding, automated inspection and high-speed machining in a single, fully integrated re-manufacturing cell. This combination of technology enables manufacturers to repair and recycle worn, high-value components such as turbine blades, to a consistently high quality. It is expected to make a major contribution to the reuse of worn components in the aerospace, defence and power industries in particular.

As well as being able to repair damaged and worn components, the system can be used to manufacture totally new complex metal parts, upgrade obsolete parts and reconfigure standard parts for low volume applications.

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Edgecam Celebrates its 30th Anniversary

11 April 2013

Edgecam is celebrating its 30th anniversary, and is just as “leading edge” as when the original CAD/CAM system launched in collaboration with Surrey University in the early eighties; and when it changed its name to Edgecam on the same day that Windows 95 was released.

Pathtrace was founded in 1983, and until becoming Edgecam its former brands of PMS (Pathtrace Manufacturing System) and PAMS (Pathtrace Advanced Manufacturing System) had been DOS-based.

Edgecam General Manager Raf Lobato says: “The first release of Edgecam in 1995 took a DOS-based textual menu-driven system into a Windows look and feel with graphical icons replacing textual menus.”

At that time it was a traditional wireframe and surface-based CAD/CAM system. However, with the development of Mechanical Desktop and Pro Engineer, followed by Solidworks, Solid Edge and Inventor, mid-range solid-based CAD systems took off. So rather than basing their new software on a solid-based kernel, Edgecam chose the unique route of supporting all major solid kernels in 1999. “This meant we didn’t need to translate the CAD data,” says Raf Lobato. “And to this day many other systems still have problems transferring data via independent format, such as IGES. But all formats are readily imported into Edgecam with no loss of integrity.

“Edgecam adopted the solids-based technology as we believed that was where CAD systems would go. We expected people to move from wireframe and surface-based CAD to solid-based systems which would ensure model integrity, allowing CAD models to be built quicker and more accurately, for many

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purposes including visualisations, assembly building and manufacturing.”

Today’s Edgecam includes the revolutionary Strategy Manager and Waveform Roughing. And a new launch application called Workflow, which automatically loads a part in the correct manufacturing environment with datum set, is being unveiled in the next release, Edgecam 2013 R2. Strategy Manager was the first flexible knowledge base manufacturing solution allowing users to easily dictate and store their own manufacturing processes. And Waveform Roughing, which maximises material removal rates while prolonging both tool and machine tool life, has been described by manufacturers as “pushing the boundaries of traditional milling.”

Raf Lobato explains that back in 1995 the philosophy behind the new name of Edgecam reflected the software’s “leading edge” as it moved from DOS to Windows-based.

And the original Pathtrace had been leading edge right from its inception. “In those days most CAM software was designed for mainframe systems, but when the first generation of PCs came along Pathtrace embraced these small machines, believing, quite rightly, that they were the future, and created PMS for the popular Commodore Pet.” In 1988 Pathtrace developed PAMS for the emerging IBM PC market. The old PMS was a command line-driven system, where users had to know the commands and execute them, but PAMS allowed users to select from onscreen menus.

Leading edge 30 years ago and leading edge today, Edgecam is currently used in 26 countries, with over 100 direct employees and 52 resellers around the world. The brand became part of the Planit Group in 2006, which, in turn, was acquired by Vero Software in 2011.

Edgecam will be celebrating this milestone 30th anniversary with reseller conferences in Prague, Phoenix and Bangkok.

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IMAGINiT Technologies’ Singapore Office Earns Platinum Award at Autodesk’s One Team Conference

8 April 2013

[Rand Worldwide](#) announced that its [IMAGINiT Technologies](#) Singapore division received Autodesk’s coveted Platinum Award for Year-Over-Year Growth in Architecture, Engineering, and Construction (AEC) Sales.

IMAGINiT’s sales team also earned the 90/90 award for outstanding attach and renewal rates while IMAGINiT’s marketing team received a Platinum Award for the best Marketing Reseller in the entire Autodesk channel for Autodesk’s FY13. Also, Marcus Yeo from IMAGINiT’s Singapore office was recognized for his exceptional sales and customer service. The awards were presented last month at Autodesk’s One Team Conference in Las Vegas, Nevada.

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“Earning these prestigious awards from Autodesk validates our hard work in delivering the best possible AEC solutions to the Singapore design and engineering market,” said Japri Maming, director, IMAGINiT Technologies, Singapore. “It’s proven to be a winning combination when our team focuses on ensuring our customers receive the absolute best software, implementation, training and consulting that’s geared to solve their design and engineering challenges.”

Another Rand Worldwide division, ASCENT Center for Technical Knowledge, also had a presence at Autodesk’s One Team Conference. ASCENT not only sponsored the conference, but presented on how adding training services can incrementally grow business and build lasting customer relationships.

For more information on their various customer support initiatives and to find out how your company can benefit from them, please contact an IMAGINiT representative at: +65 6226 0880 or via email at imaginit-sg@rand.com.

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K3 Business Technology Group to Distribute Visual PLM.net in Europe

12 April 2013

Visual 2000 International Inc. and K3 Business Technology Group plc (K3) have reached an agreement that establishes K3 as the exclusive distributor of the Visual PLM.net® product lifecycle management software to fashion and soft goods retailers and brand manufacturers in Europe. K3 will offer the globally popular design, product development, and pre-production management and collaboration solution as either a standalone PLM package or as an integrated component of its Microsoft Dynamics®-based multichannel retail and wholesale solution. The companies expect the new alliance to propel sales of both products in the European marketplace.

“With their strong industry presence and customer commitment, we are pleased to partner with K3 to expand the use of Visual PLM.net in Europe,” stated Charles Benoualid, Visual 2000 Vice President of Research and Development. “As fashion and soft goods retailers and brands increasingly look to PLM to streamline and simplify operations, we are confident that K3 can help these companies discover the distinct advantages of our flexible, out-of-the-box solution. We look forward to a long and mutually rewarding business relationship.”

Visual 2000 is globally recognized for its industry expertise and software solutions that deliver exceptional price, performance and functionality. Visual PLM.net incorporates a wide range of fashion-specific capabilities; including line planning, storyboarding, image management, tech pack management, content management, color management, business intelligence, time and action calendars, supplier relationship management, and more. Global fashion brands such as HUE® (Kayser-Roth Corporation), Mountain Equipment® (OSC Limited), and Jigsaw® (Robinson Webster Holdings Ltd.) use Visual PLM.net to manage product development and enable collaboration among in-house teams and their global supply chains.

“After a thorough evaluation of the PLM market place, we decided that the Visual PLM.net software

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was the best fit for fulfilling our customer requirements across Europe, whilst complementing our market and product strategy solutions,” stated Tom Milne, Chairman of K3 Business Technology Group. “This powerful yet easy to use technology will complement and enhance K3’s Microsoft Dynamics offering making it one of the most comprehensive end to end channel management solutions’ in the market. This new partnership demonstrates our commitment to delivering top class business systems to the fashion, apparel and soft goods industries and will further strengthen our position in Europe.”

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MecSoft Announces New Corporate Website

5 April 2013

[MecSoft Corporation](#), the developer of computer aided manufacturing (CAM) software solutions, has announced their new corporate website at mecsoft.com.

“In order to match the powerful and intuitive nature of MecSoft’s [CAD/CAM software](#), our website needed a new look,” stated Tim Strifler, Marketing Coordinator at MecSoft Corporation. “We’re really excited about this new facelift which will make our website easier to use for both current and prospective customers.”

MecSoft’s new website features the latest web standards such as “responsive design” for a more user-friendly experience on any device. While the look and feel may be new, all the information, video tutorials, and galleries that made mecsoft.com a resource previously, can still be found within the same website structure.

To view the updated website, or to contact MecSoft Corporation, visit mecsoft.com.

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Nemetschek Vectorworks Proudly Sponsors Architectural Record Cocktail Napkin Sketch Contest

4 April 2013

Nemetschek Vectorworks, Inc. is proud to announce its sponsorship of the 2013 *Architectural Record* Cocktail Napkin Sketch Contest. Through this contest, architects and related professionals in the United States are asked to share a creative concept on a five-inch-by-five-inch cocktail napkin. The hand-drawn designs can be submitted in one of two categories: Professional or Non-Professional.

“We’re thrilled to have Nemetschek Vectorworks as a sponsor of our third annual Cocktail Napkin Sketch Competition,” said Laura Viscusi, vice president of McGraw-Hill Construction Media and publisher of *Architectural Record*, *GreenSource* and *SNAP*. “This unique competition builds on the

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tradition of the great architects who sketched some of their greatest works on napkins. Active architects in firms of all sizes and stages participate. The program even inspires firms to have sketching cocktail parties. It's just one more way that architects engage with *Architectural Record* and now, Nemetschek Vectorworks.”

Past entries have included drawings of iconic buildings, sketches of ancient masterworks and studies on the design process. Two grand prize winning submissions will be published in *Architectural Record*, and winners will receive a box of napkins printed with their sketches. The contest launched April 1, and the winners will be announced in September. Visit <http://archrecord.construction.com/call4entries/Napkin-Sketch-Contest-2013.asp> to learn more or to enter.

To complement the contest, the Nemetschek Vectorworks architectural industry experts will demonstrate at www.vectorworks.net/sketchtobim how architects can turn a hand-drawn sketch into a building information model (BIM) in Vectorworks software. Visitors to the site will have the opportunity to vote on a project and design details. All voters at each phase will be registered for a chance to win a Wacom® Intuos5 pen tablet, a tool that provides users with a completely natural and intuitive platform for drawing and sketching digitally.

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Siemens and Bentley Extend Collaboration to the Process Industry

8 April 2013

The Siemens Industry Automation Division and Bentley Systems announced today at the Hannover Messe that they are stepping up their strategic collaboration, focusing on the process industry sector in fields such as chemicals, energy, pharmaceuticals, and oil and gas. Both companies are targeting increased interoperability between the Comos engineering software solution from Siemens and Bentley's OpenPlant 2D/3D system for plant design and construction.

One of the aims envisaged by the collaboration is for both companies to work jointly on a system that will allow the capture, exchange and further utilization of data and information spanning the entire plant lifecycle, from engineering through to plant operations across all disciplines. Along with a cohesive connection between Comos and OpenPlant, this collaboration also seeks to afford users access to supplementary disciplines supported by the Bentley portfolio such as heating, ventilation and air conditioning (HVAC), construction simulation, cable and raceway management, conveying technology, steel construction and laser scanning.

“By increasing the interoperability of our fully integrated 2D engineering software solution Comos with Bentley's open 3D system OpenPlant, we will be generating exciting new potential for users, based on the global standard ISO 15926 and iRING,” explained Andreas Geiss, Vice President of Comos Industry Solutions, Siemens. “This will benefit both plant engineering and operation.”

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Comos provides unique industry-specific solution concepts spanning the entire plant lifecycle on a standardized, object-oriented data platform. Consistent and reliable data exchange is guaranteed from the engineering stage through to maintenance, with plant documentation that is always up to date. Comos' bidirectional data exchange between graphics and database prevents inconsistencies and provides the guarantee of an up-to-date, as-built depiction of the plant at all times.

The interoperability between Comos and OpenPlant extends the scope of these benefits to now span plant design, engineering, procurement, and construction.

“This breakthrough is a validation of our organizations’ interoperability strategies, and a great return on Bentley’s investment in ISO 15926 and iRING. It brings our joint users information mobility across CAPEX and OPEX – that is, from design and construction through operations and maintenance,” said Ken Adamson, Bentley Vice President, Building, Electrical, and Plant Products. “As in our ongoing collaboration with Siemens Industry Automation Division to unify product and production lifecycles for discrete manufacturers announced last year, it’s both rewarding and stimulating for us at Bentley to work with Siemens in the process manufacturing sector. For instance, in leveraging technologies such as Siemens’ SIMATIC environment, we can together further enable the ultimate in industrial information mobility – from plant design through real-time automation.”

Monica Schnitger, principal analyst at Schnitger Corporation, said, “We've long believed that much of the value created in the design and engineering process is lost in the handover to operations. By using the ISO 15926-compliant i-model to connect OpenPlant and Comos, Bentley and Siemens are coupling 2D and 3D, the conceptual design of a process through to the controlling instrumentation of an operating plant. This project, an extension of a collaboration announced last year for the discrete manufacturing industries, promises to deliver significant benefit to EPCs and plant operators in the process industries. It's an exciting development and we'll be watching with interest to see industry adoption.”

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Siemens Recognized by General Motors as a 2012 Supplier of the Year Winner

8 April 2013

General Motors recognized Siemens’ Product Lifecycle Management (PLM) software business unit as one of its best global automotive suppliers on Wednesday, March 13 during its 21st annual Supplier of the Year awards ceremony. The event was held at the Charles H. Wright Museum of African American History in Detroit.

“The honor of receiving the GM Supplier of the Year award with such consistency is a tribute to our team’s dedication to customer success, and a direct result of our two companies’ close working relationship,” said Chuck Grindstaff, CEO and president, Siemens PLM Software. “We are proud of our

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partnership with General Motors and look forward to the future as our software technology continues to help GM design, build, and sell the world's best vehicles.”

Siemens was one of only 83 suppliers recognized by GM who have consistently exceeded GM's expectations by being innovative, delivering quality products and services on time and by creating outstanding value. This is the fifth time Siemens PLM Software has received the Supplier of the Year award, and the third time in the last four years.

“Siemens helped play a critical role in GM's success in 2012 through their dedication and commitment to consistently exceed our expectations by being innovative, delivering high quality products and services on time and by creating outstanding value,” said Grace Lieblein, GM vice president, Global Purchasing and Supply Chain. “We are thrilled to recognize Siemens PLM Software, who we consider to be a world-class supplier.”

The Supplier of the Year award is given to less than one percent of GM's approximately 18,500 suppliers around the world. The winners are recognized for delivering innovative technology, superior quality, timely crisis management and competitive, total-enterprise cost solutions.

Siemens PLM Software supplies General Motors with a comprehensive set of integrated software, services and expertise to help automate their entire product lifecycle process. The offerings in use at GM include, but are not limited to, NX™ software for computer-aided design, manufacturing and engineering analysis, Teamcenter® software for digital lifecycle management, and the Tecnomatix® portfolio for digital manufacturing automation and simulation. All of this software technology helps manufacturing companies make smarter decisions that lead to better products.

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Stratasys Announces Winners of 2013 Extreme Redesign Contest

4 April 2013

[Stratasys Ltd.](#) announced the winners of its ninth annual [Extreme Redesign 3D Printing Challenge](#). The global contest encourages students to submit an innovative product design, a redesign of an existing product, or an original work of art or architecture.

Stratasys is awarding the top three student winners \$2,500 or \$1,000 scholarships in each of the categories of Middle and High School Engineering, College Engineering, and Art and Architecture. Instructors of each of the three first-place student winners will receive a tablet PC for use in the classroom.

This year's finalists in the College Engineering category also had their designs examined to see if they

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had potential for a licensing agreement and commercialization by a manufacturer. This process was done in partnership with online inventor community, [Edison Nation](#), which operates the hit TV show, [Everyday Edisons](#). After considering finalist designs, Edison Nation identified one design submission as having strong potential for submission to the licensing search process and a potential future licensing agreement. The company will recommend steps the entrant should take to pursue this possibility.

Designs are awarded based on creativity, usefulness, part integrity and aesthetics. Each submission is required to be a sound mechanical design, be realistic and achievable and include a clear written description of the design. This year's contest also featured the award category, "Engineering a Difference," in which students competed for a bonus prize. Students whose designs were aimed at solving a great societal challenge had a chance to win a \$250 gift card.

Winners were selected by a distinguished panel of independent judges from industry. This year's judges were Patrick Gannon, RP+M division of Thogus, Todd Grimm, TAGrimm & Associates, and Ian Kovacevich, Enventys.

For video, photos, and descriptions of this year's winning designs, visit [Extreme Redesign 3D Printing Challenge](#).

WINNING DESIGNS:

College Engineering Category

1st Crawler 2.0; Andrew Roderick/Brian Booth, Andrews Univ., Berrien Springs, Michigan

2nd Multi-Rack; Sandra Wojtecki/Helena Skonieczna, Ryerson Univ., Toronto, Ontario

3rd Snack Cup; Sivan Arbel/Julia Mozheyko, Ryerson Univ., Toronto, Ontario

Art & Architecture Category

1st Emergent Automated Mfg; Connor Nicholas, Savannah College of Art & Design, Savannah, Georgia

2nd Virtual Organic Glasses; Hichang Ki; IDAS, Seoul, South Korea

3rd Running Charger; Max Meaker, Kentridge H.S., Kent, Washington

Middle/High School Engineering Category

1st Magnesium Fire Starter; Josh Ryan, Grand Haven H.S., Michigan

2nd Math Over All Boundaries; Ethan Koeppel/Ethan McMillan, Grand Haven H.S., Michigan

3rd Easy Open Bottle Cap; Zachary Sia, Pittsford Mendon H.S., Pittsford, New York

Edison Nation Pick

Crawler 2.0; Andrew Roderick, Brian Booth; Andrews Univ; Berrien Springs, Michigan

Edison Nation will advise the team of Roderick and Booth on steps they should take to pursue a possible licensing agreement and commercialization of their invention.

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Events News

AVEVA Exhibits at Power-Gen India and Central Asia 2013

9 April 2013

AVEVA announced today that it is exhibiting at Power-Gen India and Central Asia 2013, taking place 6 - 8 May in Mumbai, India. AVEVA will present its Integrated Engineering & Design and Information Management solutions for the design and construction of new-build power plants and the modification and lifecycle extension of existing assets.

Specifically featured will be brand-new products AVEVA Everything3D™ (AVEVA E3D™) enabling Plant Design for Lean Construction and AVEVA Enterprise Resource Management™ (AVEVA ERM™) that supports efficient construction planning, project management and execution.

'Power-Gen is a leading power exhibition in India and Central Asia, that attracts some of the most important players in the region's power industry,' said Evgeny Fedotov, Senior Vice President, Russia, India & Middle East, AVEVA. 'We look forward to engaging with EPCs and Owner Operators to demonstrate our software solutions for engineering design, asset operations and maintenance management. It is also the ideal setting to introduce our exciting new AVEVA E3D and AVEVA ERM products to the power industry.'

Other AVEVA products being exhibited include: AVEVA Bocad Steel™ for structural steel detailing and fabrication; AVEVA Laser Modeller™, which rapidly and cost-effectively transforms laser scan data into intelligent, as-built 3D plant models; and AVEVA NET™, for consolidating and sharing all project and asset information, maintaining its quality and integrity from design, through handover and for the asset's entire operating life.

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CGTech to Showcase VERICUT Aerospace Applications at IDEF13 in Istanbul, Turkey

11 April 2013

CGTech will showcase its expanded range of software applications for the aerospace industry on stand 265A in the UK pavilion at IDEF13 in Istanbul, Turkey.

VERICUT Machine Tool Simulation Applications

CGTech's VERICUT is widely used in aerospace and defence to improve the efficiency of all types of CNC Machine Tools. VERICUT is CNC machine simulation, verification and optimization software that enables users to eliminate the process of manually proving-out NC programs. VERICUT simulates all types of CNC machining, including drilling and trimming of composite parts, water jet, robotics, mill/turn and parallel kinematics. VERICUT runs standalone, but can also be integrated with leading

CIMdata PLM Industry Summary

CAM systems including Dassault Systemes CATIA, Siemens NX, Delcam PowerMill and Open Mind HyperMill.

VERICUT 7.2 will be on display during the show featuring a range of aerospace applications.

VERICUT Composites Applications

Throughout the show, CGTech will be demonstrating VERICUT Composite Applications: VERICUT Composite Paths for Engineering (VCPe), VERICUT Composite Programming (VCP) & VERICUT Composite Simulation (VCS).

Visitors will have the opportunity to receive a thorough overview of the steps needed to get from a CAD designed composite part to CNC programs that drive automated composite machinery. There will be updated information on projects that highlight the implementation and use of machine independent off-line NC programming and simulation software for AFP machines including robot AFP cells.

In addition, CGTech will demonstrate its new programming and simulation software for Automated Tape Laying (ATL) by showcasing an application on an mTorres ATL machine.

VERICUT Drilling and Fastening Applications

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

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CNC Software, Inc. Showcases Mastercam Swiss Expert and Previews Mastercam X7 at OrthoTec 2013

8 April 2013

OrthoTec 2013 attendees will receive a sneak peek at the most powerful Mastercam machining software yet. Stop by booth # 315 at the Orthopaedic Capital Center at Grace College in Winona Lake, IN, June 5-6 for a look at Swiss Expert 2012 as well as Mastercam X7, the latest Mastercam release, which is due out Q2 2013. Mastercam X7 introduces many significant new capabilities, including the new Mill-Turn product and much more.

Mastercam Swiss Expert

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Mastercam Swiss Expert is designed to program Swiss-style NC machines, and is popular with watch-making, medical device, dental, automotive, and electronics companies—industries where extremely small but very precise parts are a requirement. Mastercam Swiss Expert is developed in the same region of Switzerland where Swiss-style machines were invented. It is known for supporting an unlimited number of axes and channels, and for realistic simulation of the entire machine and its tools. Mastercam Swiss Expert reduces startup time significantly, is ideal for optimizing cycle times, and supports all types of tooling.

New Mastercam Mill-Turn

Mastercam's Mill-Turn product makes machining on today's high-powered turning centers and full-function machining centers simpler and easier than ever before. Mastercam Mill-Turn streamlines the programming process with intelligent job setups that are keyed to the exact machine in your shop. Intelligent work plane selection makes it easy to select the proper spindle and turret, and program your part with Mastercam's proven milling and lathe toolpaths.

Renishaw Probing

Mastercam X7 integrates Renishaw's Productivity+™ for in-process gauging. This uses a measuring probe on a machine tool to determine fixture offsets, orientation, and critical dimensions. Probing eliminates the need for tool presetters, expensive fixtures, and manual settings with dial indicators. It allows for machine offsets to be automatically adjusted, even during the machining process, to further enhance the manufacturing process.

Also available in Mastercam X7:

- The new Tool Manager, providing a whole new way to create and organize your tooling.
- Improved Backplot and Verify utilities that offer a more efficient workflow, better analysis tools, and more comprehensive toolpath support.
- Dynamic and OptiRough toolpaths with more efficient tool motion, including enhanced cut orders and faster calculation times.
- Multi-threading support extended to most 2D high speed toolpaths, resulting in faster toolpath processing.
- Oscillate motion for Curve and Swarf 5-axis toolpaths, improving your tool life by not always machining with the same area of the tool.

Visit www.mastercam.com for information about the upcoming Mastercam X7 release.

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Delcam to Launch New PowerINSPECT in China at CIMT Seminar

11 April 2013

CIMdata PLM Industry Summary

Delcam will launch the 2013 version of its PowerINSPECT inspection software in China with a free half-day seminar on 25th April during the CIMT exhibition in Beijing. The afternoon event will include demonstrations of the new options in the 2013 release, plus presentations from Ben Brereton, PowerINSPECT Development Manager, Phil Hewitt, PowerINSPECT Marketing Product Manager and Joe Zhou, Business Development Manager for Greater China.

Places at the seminar can be booked on the Delcam stand at CIMT – W3-411 in Hall 3.

The 2013 release of PowerINSPECT offers unique dual-device inspection options that allow measurement with two portable devices at the same time. PowerINSPECT is believed to be the only inspection software that supports simultaneous operation of different types of device, including laser scanning equipment, from different manufacturers. Full details are on the Learning Zone at www.delcam.tv/pi2013/lz

Other enhancements in the new version include improved handling of point-cloud data, group editing of probing parameters, graphical editing of boundaries for raster-based inspection, more flexibility in programming dual-column CMMs, and easier measurement and marking out when using PowerINSPECT for clay modelling.

The ability to provide simultaneous measurement from two devices is an extension of the functionality for dual-column CMMs included in the 2012 R2 release of PowerINSPECT. The main benefit is the same – the ability to reduce inspection times both by measuring a complete object in a single set-up and by taking data simultaneously from two sources.

As with the dual-column mode, the two-device technique works in a similar manner to the single-device version of PowerINSPECT: models are loaded in the same way; inspection items are created using the same methods and so on, meaning that little extra training is required.

Dual-device operation works around the line-of-sight limitations of laser trackers and other optical measuring devices. The new version of PowerINSPECT enables both sides of the same object to be measured simultaneously with two laser trackers. This could have huge time savings in any production line as it would minimise the need to reposition the object or measuring device when inspecting all around the component.

PowerINSPECT can also combine measurements from two different types of device. For example, a laser tracker can be used to check the long-range accuracy of a large component while a portable arm is being used to measure specific critical features in a confined space.

The new dual-device option is related to the dual-column module for CMMs which is also further improved. In particular, it has been made easier to switch between single-column and dual-column

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operation, so making it practical to inspect two small items independently with the two columns, as well as to inspect separate areas of a single large object.

PowerINSPECT is firmly established as the world's leading hardware-independent inspection software. It combines the ability to work with all types of inspection device with a comprehensive range of inspection routines for taking simple measurements, for inspection of geometric features and for analysing complex 3D surfaces. The resulting reports present detailed information in an easy-to-read format, that can be understood by all engineers not just inspection specialists.

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Delcam to Show PowerSHAPE Solid Modelling and Point Cloud Tools at Develop3D Live

8 April 2013

Delcam will demonstrate the 2013 R2 version of its PowerSHAPE CAD software family at the Develop3D Live 2013 conference at Warwick University on 16th April. This latest release includes new tools and enhancements for solid modelling and for manipulating point clouds. The two sets of developments will speed the production of designs ready for manufacturing, whether starting from imported CAD data or from scanned data.

PowerSHAPE combines solid, surface, wireframe and direct modelling to provide the most comprehensive range of modelling techniques available in a single CAD program. In particular, 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, especially when converting product designs into tooling designs.

PowerSHAPE Pro combines these extensive CAD tools with point-cloud and triangle modelling, including tools for the real-time acquisition, repair and editing of point-cloud data from laser scanners. 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. The broad set of functionality makes PowerSHAPE Pro ideal for the re-engineering of existing products into improved designs or for creating personalised items, such as medical devices for individual patients or sports equipment for a particular athlete.

The main enhancement in the new PowerSHAPE release is the ability to rewind the solid history tree of a model to any position using a graphical slider. Edits can then be made, either by applying the Solid Doctor to repair problematic data or by using the full range of direct modelling tools in PowerSHAPE, without losing the history of the model. Once the required edits have been completed, the rewind point can be moved or deleted; the complete solid history is then re-built automatically.

A simpler change, that will also save significant amounts of time, is that clicking the right mouse button now has the same effect as pressing "Apply" or "OK" on all forms. This is particularly useful when

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carrying out repetitive tasks such as filleting around a complex model. The user can now select each edge to be filleted, click the right mouse button and then move on to the next edge. Similarly, a series of holes can be created more quickly just by selecting the position and clicking the button for each hole.

Other solid modelling enhancements include a new dialog for the solid-split command, a more flexible replace-face option that now allows faces of one solid to be replaced with faces from a separate solid, and new hole types allowing faster creation of holes for standard metric and imperial cap-head screws and bolts.

In addition, the Solid Doctor has been made more flexible with the ability to relax or tighten the linking tolerances on specific edges. This is important for subsequent modelling as tolerance issues can affect the reliability of Boolean operations.

Additional improvements to PowerSHAPE Pro will make re-engineering from scanned data quicker and easier. A set of new modelling tools will allow users to extract selected points from within a cloud of point data to make a new one, or to combine separate clouds into a single set of data. In addition, separate clouds, or areas within a cloud, can be given different colours for easier identification.

More information can be found by visiting the PowerSHAPE Learning Zone: <http://www.delcam.tv/ps2013/lz/>

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Gentex Corporation to Present at Aras ACE 2013 Conference April 30 – May 2

10 April 2013

Aras® today announced that Gentex Corporation, an automotive electronics company, will present at ACE 2013, Aras's global conference which takes place April 30 – May 2 in Troy, Michigan, USA.

Gentex's presentation, Expanding PLM into an Intuitive, Global Impact Analysis Platform, highlights how the company has customized Aras to drive better communication, inventory visibility and supply chain agility when responding to quality events, natural disasters, product launches, and design and process changes.

ACE 2013 -- April 30 – May 2

Detroit Marriott Troy, Michigan, USA

Free to Attend - No Fee (Space is Limited - Registration Required)

Details and Registration: <http://www.aras.com/ACE2013>

Gentex is a global high tech electronics company that understands the freedom and discipline required to run an entrepreneurial company. The company specializes in a broad spectrum of technologies and

CIMdata PLM Industry Summary

processes to deliver high quality products to the automotive, aerospace and fire protection industries. Vertically integrated in highly automated electronics, CMOS camera development and manufacturing, vacuum coatings, and glass bending and fabrication, Gentex is a company built on innovation. For more information please visit www.gentex.com

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Hagerman & Company to Host BIM Solutions for Healthcare Seminar

9 April 2013

Hagerman & Company, Inc., one of the nation's largest [Autodesk](#) value-added resellers, will host a series of Autodesk Building Information Modeling (BIM) Solutions for Healthcare events in April. These events will illustrate how they can help you design, build, and operate higher performing healthcare facilities.

Two in-person events will be offered. There is no fee for registration and attendees will earn 1 Health, Safety, Welfare (HSW) credit with AIA.

[Chicago, IL -- Tuesday, April 23rd at 8:30 am](#)
[St. Louis, MO -- Wednesday, April 24th at 8:30 am](#)

“The Hagerman team is pleased to show our building professional customer-base how Simulation Solutions and BIM can enhance building performance in the Healthcare industry”, said Hagerman & Company CEO Sandy Hagerman.

The BIM process offers healthcare organizations and building professionals the opportunity to use data-rich models to simulate real-world performance of designs, and computational fluid dynamics tools help to quickly and easily evaluate design options. Ultimately, using BIM and Simulation CFD can enhance building performance—helping to mitigate healthcare-associated infections, reduce energy consumption, and improve patient comfort.

For more information or to register, contact Hagerman & Company at (800) 422-0313.

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Hagerman & Company to Host Industrial Machinery Seminar

10 April 2013

Hagerman & Company, Inc., one of the nation's largest [Autodesk](#) value-added resellers, will host an Industrial Machinery event entitled [“Developing Industrial Equipment Using Design Automation”](#) on April 25, 2013 at their Schaumburg, IL location.

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Register for this free three hour seminar and discover how a best-in-class product development process can empower your sales team and help you to lead in new production innovation:

- Configure products without engineering involvement
- Validate product configuration with rules-based design
- Focus engineering time on new product development
- Cut custom order delivery time without cutting quality

“We are pleased to demonstrate how our customers can grow overall revenue and profitability by implementing Design Automation Tools within [Product Design Suite](#)”, said Hagerman & Company CEO Sandy Hagerman.

For more information or to register, contact Hagerman & Company at (800) 422-0313.

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Nidec Motor Company to Present at Aras ACE 2013 Conference April 30 – May 2

11 April 2013

Aras® announced that Nidec Motor Company, a manufacturer of commercial, industrial and appliance motors and controls, will present at ACE 2013, Aras’s global conference which takes place April 30 – May 2 in Troy, Michigan, USA.

Nidec’s presentation, Global PLM Past, Present & Future, chronicles the company’s experience replacing legacy PLM, migrating complex CAD data, enabling manufacturing plants around the world, automating global processes and more. Attendees will gain insight into the complexity, challenges and lessons learned at each stage of Nidec’s PLM journey.

ACE 2013 -- April 30 – May 2

Detroit Marriott Troy, Michigan, USA

Free to Attend - No Fee (Space is Limited - Registration Required)

Details and Registration: <http://www.aras.com/ACE2013>

Nidec is a developer of high efficiency motor products using advanced technologies in Brushless DC, Controlled Induction and Switched Reluctance designs, and holds nearly 1,000 patents in motor and drive technology worldwide. Nidec products are engineered in collaboration with customers to provide robust solutions for difficult application environments. The company has operations worldwide in the U.S., Canada, China, Colombia, Mexico, the Philippines, the UK and Venezuela. For more information please visit <http://www.nidec-motor.com/>

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Financial News

3D Systems Announces Conference Call and Webcast to Discuss First Quarter 2013 Results

11 April 2013

[3D Systems Corporation](#) announced today that it plans to hold a conference call and simultaneous webcast to discuss its financial results for the first quarter of 2013 on Tuesday, April 30, 2013, at 9:00 a.m. Eastern Time. The company expects to release these financial results and to file its Form 10-Q on April 30, 2013.

Date: Tuesday, April 30, 2013

Time: 9:00 a.m. Eastern Time

Listen via Internet: investor.3dsystems.com

Participate via telephone:

Within the U.S.: 1-866-318-8616

Outside the U.S.: 1-617-399-5135

Participant code: 19084856

The recorded webcast will be available beginning approximately two hours after the live presentation at investor.3dsystems.com.

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Bentley Systems Releases 2012 Annual Report Online

11 April 2013

Bentley Systems, Incorporated, today announced the release of its 2012 Annual Report, available in digital format at www.bentley.com/annualreport. In addition to providing the company's 2012 performance highlights, the publication sets the stage for Bentley's 2013 priorities.

Performance highlights include:

- revenues grew 5 percent to a record \$550 million on an historical GAAP basis; in constant currencies, GAAP revenues grew 8 percent and organic growth was 6 percent;
- subscriptions reached a record 74 percent of revenues;
- applications use was logged by over 1 million users in 165 countries – and nearly 2 million users when including Passports and iWare apps;
- investment in R&D and acquisitions was at a record level of nearly \$200 million, bringing the

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total invested since 2005 to more than \$1 billion.

Commenting on the 2012 Annual Report, CEO Greg Bentley said, “Our annual reporting to our user organizations this year goes beyond performance metrics. It also introduces groundbreaking Bentley innovations and initiatives that support our agenda for 2013 – *Connecting Globally*. Among them are new apps for mobile devices that empower users to secure information mobility on construction sites and field locations; new products and services for *persistent point clouds* across infrastructure lifecycles; new strategic alliances with major organizations, including Siemens, Trimble, and AASHTO, that will result in new connectivity among systems; and newly reprogrammed events for in-person global connections, including [The Bentley LEARNING Conference](#) for hands-on learning and *The Year in Infrastructure 2013* Conference for thought leaders.”

A digital version of Bentley Systems’ 2012 Annual Report is available at www.bentley.com/annualreport.

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Dassault Systemes Schedules First Quarter 2013 Results Webcast and Conference Call for April 25, 2013

8 April 2013

[Dassault Systèmes](#) will host a webcast and a conference call on Thursday, April 25, 2013, to discuss its operating performance for the first quarter 2013 ended March 31, 2013.

The management of Dassault Systèmes will host the webcast at 8.30AM London Time – 9.30AM Paris Time and will then also host the conference call at 9:00 AM New York Time - 2:00 PM London Time - 3:00 PM Paris Time.

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

Follow the directions on the main page to link to the audio. Please go to the website at least fifteen minutes prior to the webcast or conference call to register, to download and install any necessary software. The webcast and conference call will be archived for 30 days.

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EMC to Announce First-Quarter 2013 Financial Results on April 24; News Release to be Available on EMC’s Corporate Website

10 April 2013

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EMC Corporation will publish its first-quarter 2013 financial results on April 24, 2013 at approximately 7:00 a.m. ET. The news release will be available on the EMC Investor Relations website at <http://www.emc.com/ir> and on the U.S. Securities and Exchange Commission website at: <http://www.sec.gov/cgi-bin/browse-edgar?action=getcompany&CIK=0000790070&owner=exclude&count=40>. On April 24, 2013, EMC will issue a news release announcing the availability of the company's financial results at the websites referenced above.

EMC will hold a conference call for investors at 8:30 a.m. ET on April 24, 2013 to review first-quarter 2013 financial results. A live webcast of the conference call will be available at the EMC Investor Relations website at <http://www.emc.com/ir>.

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Infosys: Q4 Revenues Grew by 1.4% Sequentially; FY13 Revenues Grew by 5.8%

12 April 2013

Consolidated results under International Financial Reporting Standards (IFRS) for the quarter ended March 31, 2013:

- Revenues were \$1,938 million for the quarter ended March 31, 2013;
 - QoQ growth was 1.4%
 - YoY growth was 9.4%
- Net profit was \$444 million for the quarter ended March 31, 2013;
 - QoQ growth was 2.3%
 - YoY decline was 4.1%
- Earnings per American Depositary Share (EPADS) was \$0.78 for the quarter ended March 31, 2013;
 - QoQ growth was 2.6%
 - YoY decline was 3.7%
- The Board of Directors recommended a final dividend of `27 per ADS for fiscal 2013 (equivalent to final dividend of approximately \$0.50 per ADS at the prevailing exchange of `54.29 per US\$). The Register and Share Transfer Books of the Company will be closed from June 1, 2013 to June 15 2013 (both days inclusive)
- Liquid assets including cash and cash equivalents, current available-for-sale financial assets, investment in certificates of deposits and government bonds were \$4.4 billion versus \$4.1 billion as on December 31, 2012

Other highlights:

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- Infosys and its subsidiaries added 56 clients during the quarter
- Gross addition of 8,990 employees (net addition of 1,059) for the quarter by Infosys and its subsidiaries
- 156,688 employees as on March 31, 2013 for Infosys and its subsidiaries
- The company listed its American Depository Shares (ADS) on NYSE Euronext's (NYX) London and Paris markets
- The company has decided to set aside up to US\$100 million to invest in products, platforms and solutions ideas in line with Infosys 3.0 strategy

“Global economic uncertainties remain challenging for the IT industry,” said S. D. Shibulal, CEO and Managing Director. “We are progressing well on our strategic direction of building a high-quality company which is relevant to our clients. We are making all the investments necessary to differentiate ourselves in the market place while positioning ourselves as a partner of choice for our clients.”

“The global currency market continues to be volatile reflecting the uncertain economic environment. Our hedging strategy helps us to minimize the volatility impact,” said Rajiv Bansal, Chief Financial Officer. “We have a healthy balance sheet with our cash and cash equivalents at US\$ 4.4 billion.”

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Wipro Limited to Announce Results for Fourth Quarter and Year Ended March 31, 2013

10 April 2013

Wipro Limited will announce results for the fourth quarter and year ended March 31, 2013 on Friday, April 19, 2013 (late night, Thursday, April 18, 2013, US Eastern Time). The results will be available in the Investors section of the company's website at www.wipro.com.

The audio from the conference calls will be available online through a web-cast and can be accessed in the Investors section of the company's website at www.wipro.com.

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Implementation Investments

CSC Jinling Shipyard Improves Efficiency of Multi-site Collaboration with AVEVA NET

10 April 2013

AVEVA announced today that CSC Jinling Shipyard in Greater China has signed a new contract for AVEVA NET software, upon which an integrated design information management system will be

CIMdata PLM Industry Summary

deployed. CSC Jinling Shipyard has grown rapidly over recent years, extending its operations across multiple sites. To optimise these distributed and complex operations, AVEVA NET was selected to integrate information from engineering, design and enterprise resource management systems across all of its geographic locations. Using AVEVA NET, CSC Jinling will benefit from more efficient design and construction, higher quality across the entire business process, and significantly reduced delivery times and costs.

“CSC Jinling Shipyard evaluated other information management systems and selected AVEVA NET following a process that lasted over a year.” said Mr. Jiang Jiazhong, the shipyard deputy director. “CSC Jinling Shipyard has great confidence in AVEVA and we look forward to working with them.”

AVEVA NET will assist CSC Jinling Shipyard to standardise and simplify its design management across multiple sites. All design, engineering, planning, materials management and production data will be handled by a centralised digital information hub. Once information is published, and validated for accuracy, users will be able to see all associated models, plans and technical datasheets, and collaborate through mark-ups and workflow approvals.

CSC Jinling Shipyard consulted with other shipyards and conducted a full evaluation of different solutions, during which the AVEVA team worked with the organisation to fully understand its requirements. The flexibility of AVEVA NET provided the capability to create an integrated information management system that meets CSC Jinling Shipyard’s long-term business objectives.

“While CSC Jinling Shipyard has a number of unique requirements, it also shares many of the same technical and business challenges overcome by AVEVA customers in many other industries,” said Paul Eveleigh, EVP and Head of Greater China, AVEVA. “This is one of the reasons that AVEVA NET has been so successful right across the process plant, power and marine sectors. Information should be accessible across the shipyard, regardless of the system in which it was created. The AVEVA NET suite of products enables customers to collaborate on critical digital information, by making it accessible to all through a simple, intuitive browser interface. The result is that the right information is available to the right people, at the right time.”

Part of the AVEVA Enterprise portfolio, AVEVA NET is a suite of powerful and secure information management solutions that enable the collation, contextualisation, validation and visualisation of all project and asset data and documents, irrespective of location or source program. Information can originate from AVEVA or third-party software, from business systems, or from tailored applications implemented by AVEVA's enterprise solutions specialists. www.aveva.com/aveva_net.

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Lectra Fashion PLM Supports Nali by Streamlining Collection Development

11 April 2013

CIMdata PLM Industry Summary

Lectra is pleased to announce that Zhejiang Nali Apparel is adopting Lectra Fashion PLM to streamline collection development.

Founded in 1998, Nali started its original women's wear and accessories brand Badina, before launching Colove last year. High quality and design are essential components of Nali's DNA. Zhang Lifu, Chairman of Nali, is an experienced designer himself and thus remains very attached to the design process of each collection. Today, the booming fashion brand has hundreds of distribution points scattered across China and plans to increase its domestic presence. Growth over the past few years has been explosive and future development will be equally as ambitious.

Nali's current challenge is to cope with increasing activities and expanding teams while continuing to deliver quality collections on time. The fashion brand has decided to integrate Lectra's advanced technology within its design and product development process to ameliorate communication issues and optimize time, but also as an opportunity to establish a structured, best-practices collection and product development process. With the business growing, Nali needs to improve knowledge sharing between teams while also making sure that design remains at the center of product development and that product continues to be a core competitive differentiator.

"Thanks to Lectra, we realized we needed to clearly define our way of working and establish strong communication and knowledge sharing. With Lectra Fashion PLM, we are carrying out process development with checkpoints, starting with a first approval meeting with designers, costing and product development teams, before launching a first sample, for example. Now that our volumes are higher, we must improve teamwork for better communication and increased efficiency," explains Zhang Lifu.

Lectra Fashion PLM offers Nali a platform to protect savoir-faire and best practices while also shortening the learning curve for new or less experienced employees. Because the Badina and Colove brands are based on a very vast range of styles, fabrics and embellishments, easing the development and delivery process is imperative. A shared agenda, including milestones, reverse-planning and priorities running off of the common Lectra platform will ease their day-to-day work. Nali's development process will be streamlined by controlling workflow, deadlines and cost.

Nali decided to implement Lectra Fashion PLM due to Lectra's expertise with fashion brands. The key deciding factor for Nali was that Lectra is not only a reliable partner for technology, but also an expert sensitive to the needs and subtleties of fashion such as silhouettes, fabrics, colors and patterns. "We looked at other solutions and they didn't have the same experience in fashion as Lectra and so the solutions just weren't as targeted to fashion," says Zhang Lifu.

"We are pleased with the progress made so far with Lectra, and we feel our ethos is being protected. We created a true bond with Lectra's team and are confident that Lectra Fashion PLM will help maximize our business value," he concluded.

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Wall Decor Firm Advances to Visual 2000 Integrated PLM/ERP

9 April 2013

Visual 2000 International Inc. (<http://www.visual-2000.com>) announces that wall décor leader Ren-Wil Inc. is implementing the integrated Visual PLM.net® Product Lifecycle Management and Visual ERP.net™ Enterprise Resource Management solutions at its LaSalle, Quebec headquarters. One of the largest manufacturers and importers of framed pictures, mirrors, and lamps in North America, the company designs medium to high-end artwork that is sold through major furniture, gift, bath, glass and lighting stores across Canada and the United States. Ren-Wil expects the integrated PLM/ERP solution to streamline business processes and increase efficiency throughout its operations.

“From its inception in 1967, Ren-Wil applied a successful controlled growth strategy that allowed us to expand and innovate without compromising quality or customer service,” explained Ren-Wil Chief Financial Officer Albert Sayegh. “Although our growth has been strong, we eventually realized that our ability to remain on track would be centered on integrating systems. We established a comprehensive plan that would catapult our systems to the forefront of technology. Using advanced Business Intelligence (BI) and state-of-the-art supply chain solutions, we are able to successfully drive our business to the next level. Today, we’re continuously improving productivity and efficiency in the import and distribution of home décor products thanks to Visual 2000 International ERP and PLM systems.”

Visual PLM.net will help Ren-Wil streamline and manage its design, product development, sourcing, and other pre-production processes. Visual ERP.net will manage the order to cash processes, improve supply chain collaboration and execution, and improve accuracy and efficiency of warehousing and distribution activities.

Visual 2000 Canada Sales Director Alain Perez added, “We are pleased to be working with Ren-Wil. Like many other growing companies, they have come to recognize how fully integrated systems can eliminate the gaps in process visibility and functional capabilities that are common with independent or loosely connected business systems. We look forward to helping them to achieve their current and future business goals.”

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Product News

Anark Announces New Capability for Transforming CATIA with PMI into free to view, 3D PDF and HTML Engineering Release Documents

10 April 2013

Anark Corporation, a provider of automated 3D CAD transformation and product visualization solutions, announces the addition of native support for CATIA V5 & V6 with 3D Product and Manufacturing Information (PMI) data to the Anark Core Platform.

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This powerful new capability will be demonstrated for the first time at the COE 2013 Annual PLM Conference & TechniFair (booth # 106) held at the Gaylord Palms Resort & Convention Center in Orlando Florida on April 21st - 24th.

This new release of Anark Core has the ability to transform native CATIA V5 and V6 parts and assemblies with 3D GD&T, and other 3D annotations into high-fidelity 3D PDF and 3D HTML MBE documents.

"There is a growing desire from Dassault's CATIA customers to migrate away from expensive and redundant 2D Drawings (which adds up to 30% to the cost of an engineering organization), and instead embrace an operationally superior and easier to understand 3D Model Based Enterprise (MBE) document paradigm," said Stephen Collins, President and CEO at Anark Corporation.

Additionally, Anark Core generated documents are free to deploy and free to view because they are created in the native Adobe 3D PDF format which can be viewed with the free Adobe Reader, and HTML which can be viewed with free Internet browsers (like Internet Explorer).

"Our new CATIA Advanced MBD CAD Adaptor will unlock critical engineering design data such as parts and assemblies with 3D PMI created with the CATIA FTA tools, CATIA capture sets and views, and other engineering information required to represent the complete product definition in extremely high-fidelity 3D PDF and 3D HTML documents—that can be trusted as engineering-quality release documents", said Scott Collins, EVP of Product Development at Anark Corporation.

The US Department of Defense (DoD) predicts that the move away from 2D Drawings and into open and free to view 3D MBE documents will reduce the cost of its internal engineering activities by up to 30% as well as reduce the scrap and rework it currently deals with from its supply channel by nearly 19%.

Additional recent new features and enhancements for Anark Core include:

- Anark Core SDK enhancements for easy PLM workflow integration
- Support for Adobe Acroforms and XFA PDF template technologies
- Enhanced performance for loading/managing large models and assemblies
- Floating & New License Management System
- Many more

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Bentley Releases OpenPlant V8i (SELECTseries 5)

12 April 2013

Bentley Systems, Incorporated, today released [OpenPlant V8i](#) (SELECTseries 5). *OpenPlant V8i* is being widely adopted by leading plant engineering, procurement, and construction (EPC) contractors and owner-operators who have confirmed it as the most *practical* system for plant design, engineering,

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construction, and operations – in terms of fastest return on investment – and the most *scalable*. Through its use of [iRING/ISO 15926](#) as an intrinsic data model, *OpenPlant V8i* enables users to coordinate and share information across multiple disciplines and the infrastructure lifecycle, as well as among third-party systems – all with full fidelity, while also empowering them to easily migrate from other vendors’ legacy systems.

CEO Greg Bentley said, “At Bentley Systems, our commitment and our hallmark is to accomplish software superiority in both *practicality* (that is, quick ROI) and *scalability* for the largest projects and the largest challenges – in particular, the work sharing and global sourcing required in plant creation today. With the *SELECTseries 5* release of *OpenPlant V8i*, I believe our users agree that we have understood their priorities, to hit this mark.”

He continued, “Reinforcing the emerging market leadership of *OpenPlant* is its selection by Siemens Industry Automation, officially announced earlier this week, to augment its offerings in the process industries for information mobility across CAPEX and OPEX. I’ve enjoyed observing the enthusiasm of Siemens and Bentley colleagues, and of our joint users and prospects, as we’ve demonstrated this week – at Hannover Messe in the Siemens exhibit – our *OpenPlant* ‘working *smarter*, together’ with the Comos engineering software solution from Siemens to deliver this breakthrough.”

***OpenPlant* Provides Information Mobility with Data Integrity**

OpenPlant V8i (SELECTseries 5) provides enhanced information mobility across project team disciplines and the infrastructure lifecycle through its use of not only iRING/ISO 15926, but also *i-models* – containers for open infrastructure information exchange. In addition to using *i-models* to share information among the broad range of Bentley applications, Bentley provides tools to create *i-models* from third-party systems, such as SmartPlant, PDS, PDMS, and Revit, for integrated review with *OpenPlant*. This information mobility is secured by Bentley’s [ProjectWise](#) system of collaboration servers and services underlying *OpenPlant ModelServer*.

The *OpenPlant V8i* (SELECTseries 5) Offerings

The SELECTseries 5 releases of *OpenPlant V8i* include the following product offerings:

- [OpenPlant Modeler](#) V8i, providing:
 - the ability to work stand alone or synchronized with the rest of the team in a distributed environment;
 - 2D/3D comparison tools with *OpenPlant PowerPID V8i*, enabling data to be shared between the P&ID and the model, speeding the design process and facilitating consistency checking across tags;
 - KKS workspace for users working on projects requiring the classification system used by power plant operators throughout Europe (available as a separate download);
 - *persistent point-clouds*, enabling users to interchangeably maintain and interact directly with both point clouds and geometry in hybrid models, made practical for even the largest plant projects through *point-cloud streaming* from *ProjectWise Point-cloud Services*;

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- support for over 80 new component types, including the Lindab HVAC catalog;
- a custom component builder, catalog editor, and dynamic slope placement;
- [OpenPlant ModelServer V8i](#), featuring new automation tools to create and manage *i-models* across the design project, and new tools to provide more granularity around the checking in and out of components; together, these provide more robust access control and management, along with greater visibility into project status;
- [OpenPlant Isometrics Manager V8i](#), delivering a simple user interface to quickly create isometrics styles for each project, eliminating the complexity and extensive time typically needed to configure isometric production using other plant design systems; with this new functionality, projects can start up faster and address the needs of each project with less administrative overhead.

“The flexibility and openness of *OpenPlant* have enabled us to develop a common platform for our water projects – both large and small. It allows us to leverage our existing systems, processes, and resources without loss of productivity or data. By using *OpenPlant*, we can deliver client requirements for open BIM data models using both ISO 15926 and IFCs. Also, through the comprehensive *i-models* that *OpenPlant* delivers, we can share information with our construction partners, significantly reducing risks of overruns.” – Bruce Strupp, ATL CPE-Design Technology Director, CH2M HILL

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BETA CAE Systems S.A. Announces the New v14.1.0 Release of the ANSA & μETA Pre- & Post-Processing Suite

9 April 2013

BETA-CAE system S.A. announces the release of v14.1.0 of the ANSA & μETA pre- and –post processing suite. Additional new features and tools, and enhancements in the existing ones add up to their continuous effort to bring optimum solutions to CAE engineers' needs.

Enhancements and Known Issues Resolved in ANSA Pre-processing

- New function that enables the slide of a feature or a member with automated fit on the underlying surface
- *PARAMETER/ *PYVAR are now supported when importing LS-DYNA, Pam-Crash, and Abaqus FEA files. The parametric values can now be used instead of the absolute ones
- Tangential face extension and other significant enhancements allow for more accurate connectivity definition based on geometry and topology
- New CAVITY Mesh function for the creation of acoustic cavity mesh. Wizard interface, better recognition of structural surface features, and high quality tetrahedral or hexa-dominant volume mesh
- New function (SIMILAR GROUPS) enables the detection of group of faces/elements with independent connectivity and assigns groups with similar shape under one parent group enabling

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the fast and easy creation of Multi-Instances and Linked geometries

- New group of functions “Instances” is now supported and offer the options to select and highlight all parts of the same instance, to open parts of the same instance in a new window, and to convert the selected parts to Multi-Instances.
- Representation of faces’ boundaries (CONS) in all drawing modes
- Automatic connectivity identification and definition for “self-welded” components and control of hole diameter per flange with a user script
- A new tool that creates transition zones between Hexa block boxes, using polyhedral elements, and a new function that splits Hexahedral boxes to pentahedral boxes
- FLUENT shell warping and solid orthogonality criteria are now supported
- New button for the “fringe plot” colour modes, for element thickness, load distribution, etc.
- Permas Sandwich materials are now supported
- NASTRAN MCOHE materials are now supported
- FEM Topology is now automatically performed between the chunks of the imported facets (strips) when translating JT files. No topology is applied between strips of different PID
- Enchantments in modifying DOFs/Weights and new option to redefine the Di and WTi of RBE3s
- Fringe mode for Abaqus *Film Boundary condition
- Results Map of multiple files in one mapper and ability to handle T junctions for composite parts
- GTK theme now on Ubuntu version 12.10 (or newer)
- Improved performance in CWELD CFAST drawing
- The *GENERATE option is now supported for sets containing ranges in Abaqus
- BC-GUI Designer is now supported for python scripting language
- The Laminate Tool’s list loading time has been significantly decreased when reading laminates with many layers
- The Fluent based Sensitivity function has been added in Fluent Deck
- Support of Theseus AirZone and Volume under a new FLUIDs group (Fluid entities)
- Structural NSM can now be plotted with a fringe bar (for NASTRAN)
- Ability to Draw NSM per subcase (for NASTRAN)
- The Reference function for ANSA Parameters has been introduced
- Numerous new keywords for SESTRA deck
- Ability to add Option AUXILIARY in Contact Card
- Contact entities can be defined as “Auxiliary” for better interpretation of deck files during Input/Output
- Contact simulations with FE, Geometry and standard shapes for the Kinetics MultiBody Dynamics Solver
- Addition of Animation controls, Consecutive time runs, and simulations history for the Kinetics Simulator
- Assistants for Joint, Forces guided creation for the Kinetics Module

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- Handy tools in the Script Editor for indentation and searching

Enhancements and Known Issues Resolved in μ ETA Post-processing

New features & enhancements in μ ETA post-processing

- Significant improvements in graphics performance
- Periodic cyclic symmetry for CFD models
- LS-DYNA keyword *AIRBAG_PARTICLE for visibility and results is now supported
- LS-DYNA keywords *PART_COMPOSITE and *PART_TSHELL_COMPOSITE are now supported
- LS-DYNA composite results are now supported in the CompositePost toolbar
- NASTRAN axisymmetric elements CQUADX and CTRIAX are now supported
- NASTRAN SRS SOL103 results are now supported
- NASTRAN PFPANEL keyword is now supported for the response of structure DOFs
- NASTRAN ERP panel definition in bulk files is now supported
- SC/Tetra CFD code is now supported
- Horizontal fringebars have been added
- Animated cut planes have been added
- Several enhancements of the 2D plot have been made
- Video and image distortion correction added
- Model hierarchy can be exported within 3dxml files
- Several enhancements in the user toolbars have also been made

Known problems resolved in META v1410

- Abaqus keyword *ORIENTATION for composite materials would not be read correctly
- Curves could not be created from ISO files
- Several fixes in the Spreadsheet Editor
- Several fixes in the user toolbars

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Brand New GstarCAD8 Global Release

10 April 2013

Gstarsoft released a brand new CAD platform – GstarCAD8, GstarCAD8 not only realized the core technology independent but also enhanced the speed, stability and compatibility greatly, delivering to CAD users a new user interaction experience. The version number was named as “8” means a new milestone for Gstarsoft, just as “ ∞ ” symbol that expresses the infinite possibility and creation that never ceases. Once more, GstarCAD8 will lead the development of CAD software.

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Vice President of Gstarsoft, Liang Jiang said, “Previous versions of GstarCAD platform were limited by the basic architecture of the software, so there were bottlenecks in performance and stability, also, it’s hard to meet users’ requirements of customization and multi-language. 3 years ago, nearly 100 programmers of Gstarsoft wrote millions lines of software code according to thousands of feedbacks by users, finally, GstarCAD8 was completed after 3 years.

The best feature of this platform is the adoption of a leading core architecture that works bonded via:

A number of innovative technologies, speed for your design

GstarCAD8 hosts new technologies like Smart Graphic Partition, Categorized Memory Storage Management and Self-adaptive data model that are focused on boosting graphic display speed with lower memory usage through an efficient data storage management to improve the speed and performance of CAD drawings. The users can feel the difference how faster is using GstarCAD8. Furthermore the LISP rewriting performance is 5 to 10 times faster as well as porting APIs; the graphic display speed comes in action when highlighting objects, zoom in/out, pan and endless operations either basic or complex. The graphic speed is thanks to the new technologies that come with GstarCAD8. GstarCAD8 is more closed to “the fastest CAD in the world”.

Modular software architecture, secure drawings

In GstarCAD previous versions, every functional module was overlapped, so when a bug or error came out, it was more difficult to identify and fix, that means the bug interlock other functional modules making the software even not a 90% stable. In GstarCAD8, any single bug or error can be easily pinpointed within independent functional module and fixed without having effect on other modules, to avoid functional interlock which may lead to system crash. GstarCAD8 also inherits the advantages of previous versions, the drawings can be automatic saved regularly, it ensures the production of designers can be restored if unexpected error occurs.

Seamless formats and APIs compatibility

To ensure the availability and usability of GstarCAD8, it reserves the operation habits of previous versions and provides a Ribbon interface to meet the design requirements of users, and the compatibility between GstarCAD platform and secondary development software also has been tested and improved. A number of GRX parameter has been added into GstarCAD8 to transplant ARX to GstarCAD8 in a breeze. Plug-ins of LSP/FAS/VLX can be directly run on GstarCAD8.

Mobile design for anytime and anywhere

GstarCAD8 will integrate with GstarCAD MC and GstarCAD WEB to form a CAD solution for the future. .dwg files can be input into GstarCAD MC, it enables designers to browse, edit and share .dwg files anytime and anywhere. GstarCAD WEB is a cloud application of GstarCAD development, the designing of .dwg files can be done via web browser even without CAD software. It will be integrated with Gstar Documentation System to become a CAD coordinated system based on cloud storage and mobile internet.

The Standing Vice President of Gstarsoft, Liang Haixia said, “GstarCAD8 is a milestone in GstarCAD’s history, it is also an accomplishment after our 20 years’ innovative research and development. Gstarsoft

expects the releasing of GstarCAD8 as a start point to raise the position in world markets and to provide more powerful support for manufacture and construction industry”.

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Capvidia Releases FormatWorks 2013

2 April 2013

Capvidia announces release of its FormatWorks product suite for SolidWorks 2013. This release provides extended MBD (Model Based Definition) functionality for native CATIA V5, Creo/Pro-E, Siemens NX, and STEP API 242 CAD formats with the ability to read PMI (Product Manufacturing Information) into SolidWorks and maintain the semantic links between 3D model and related PMI metadata.

FormatWorks is a SolidWorks Certified Gold Product Add-in that solves frustrating data translation problems for SolidWorks users. It extends the SolidWorks capability by providing automatic, accurate, and reliable bi-directional CAD data translation. Automatic repair and healing ensures that imported 3D CAD models including IGES and STEP meet the criteria set by SolidWorks to form valid solids without any deformation.

FormatWorks provides extended support of native CAD formats CATIA V4 ,CATIA V5, Siemens NX, Inventor, Creo/Pro-E that are limited or not available in SolidWorks. It supports full Model Based Definition (MBD) information such as, PMI, FT&A, and GD&T.

Semantic PMI in SolidWorks

FormatWorks provides direct access to manufacturing information and other annotations stored together with the 3D models in native CAD data. The Annotation Set includes text, datum, datum targets, geometrical tolerances, flag notes, linear dimensions, angular dimensions, radial dimensions, roughness, and more. The user has access to the Annotation Set via the FormatWorks project tree for inspection, visualization and selection. The semantic link between the annotations is maintained, which enables to the user to select and highlight the geometry associated with annotation in the SolidWorks.

Other FormatWorks Enhancements

FormatWorks also contains the following enhancements:

- **Local Coordinate Systems** – Translates the definition of local coordinate systems from native CAD data, often used to show the position of tool for manufacturing purposes, etc. This new feature is available for CATIA V5, Creo/Pro-E, and Siemens NX native formats.
- **Assembly Configurations** – Now supports multiple assembly configurations and gives you the option to import that last active configuration (default) or select from multiple configurations. This new feature is available for Creo/Pro-E, and Siemens NX native formats only.
- **STEP AP 242** – Supports both semantic and non-semantic PMI representations for STEP AP

242 standard.

- **STEP 214 DIN 4003** – Supports object parameters including coordinate systems, cutting edge color, blade curve color, and other characteristics.

FormatWorks is available in different configurations: FormatWorks Standard, FormatWorks Professional, and FormatWorks Float, and FormatWorks Server/Client in both 32 and 64 bit platforms.

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Dassault Systèmes Launches “HT body”, a New Industry Solution Experience for High Tech Companies

9 April 2013

Dassault Systèmes today announced the launch of a new industry solution experience for high tech companies called “HT body.” Based on Dassault Systèmes’ 3DEXPERIENCE platform, “HT body” helps electronics manufacturers accelerate the design and the delivery of high-quality and differentiated electronic devices.

Focused on the enclosures and chassis that are the first and most obvious hallmark of electronic devices, “HT body” captures consumers' demands and enables differentiated product innovation to boost design creativity of electronics manufacturers and to keep them directly on target for a best-selling product. “HT body” also streamlines communication between all internal and external product development, engineering and manufacturing stakeholders – and gives them the social innovation and visualization applications needed to better connect with customers and understand what they want in a product. With “HT body,” companies can quickly respond to external events, such as the way the public feels about a certain model or design – and rapidly adapt their plans as needed.

Built on Dassault Systèmes’ 3DEXPERIENCE platform, “HT body” combines comprehensive best practices via a single, pre-integrated, proven design and engineering experience. This approach provides an experience where relationships between customer and company, industrial product design and product development, and even between product development and manufacturing, are more tightly integrated to speed innovation and information transfer during the entire product innovation experience.

“Fast moving and highly sensitive to consumer demand, the high tech device market is all about the first touch, the first sight, that first moment of emotional experience,” said Monica Menghini, Executive Vice President, Industry and Marketing, Dassault Systèmes. “To be successful, companies need to ensure they’re capturing that demand and delivering the experience consumers want in a high tech consumer device. That’s what the 3DEXPERIENCE platform enables: fast innovation, fast production, and a product experience the consumer loves.”

To learn more about HT body and all of Dassault Systèmes’ high tech solutions, please visit: <http://www.3ds.com/solutions/high-tech/overview/>.

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Delcam Adopts KeyShot as Rendering Solution

11 April 2013

Luxion and Delcam today announced that Luxion's KeyShot will be Delcam's standard rendering solution, and as such integrated with a number of Delcam products.

With foundations that span design, engineering and manufacturing, Delcam has become one of the leading world-wide solutions for producing highly detailed, highly accurate engineering and manufacturing data. Together with Luxion, Delcam brings this focus on highly accurate representations of physical objects full circle with the integration of KeyShot into their CAD/CAM product line. Through this, Designers, Engineers and Manufacturers can take their 3D designs and turn them into photographic images within minutes, further simplifying the product development process while enabling them to produce the visuals needed to save time and improve quality.

Delcam continues its strong growth, helping customers gain a competitive edge. Their design and manufacturing products are known around the world for their power and flexibility available as a complete solution or completely customized. KeyShot will remain a standalone product and will be offered as a bundled solution or a separate add-on. Distribution will be through Delcam's extensive reseller channel.

The bundled version of KeyShot will work with Delcam's products using Luxion's plugin and live linking technology, allowing users to push and update their designs directly to KeyShot without any necessary rework when changes occur.

Commercial Director at Delcam, Bart Simpson commented "Many companies are aware of Delcam as a leading developer of CAM solutions, however they are less aware that Delcam provides design solutions used in a variety of creative markets including the footwear, electronics & consumer products, jewellery & engraving markets. The adoption of KeyShot technology allows Delcam customers to rapidly and realistically visualize the products they are creating, vital in bring new products to market as quickly as possible."

"Delcam is a well respected name in the CAD/CAM industry", said Thomas Teger, Vice President of Products and Strategy at Luxion. "Having a trusted company like Delcam decide to adopt KeyShot makes us very proud. We are excited to work with Delcam on providing their user base with a solution that will allow them to create amazing images of their designs within a matter of minutes."

These bundled products will become available later this spring. For further information please contact marketing@delcam.com, or your local Delcam reseller.

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Intergraph® Launches SmartPlant® Cloud to Speed up Project Execution, Reduce Costs and Improve Operating Plant Performance

11 April 2013

Intergraph announces the launch of SmartPlant® Cloud, the company's Software as a Service (SaaS) solution, a dynamic cloud computing environment to support the entire SmartPlant Enterprise portfolio. SmartPlant Cloud removes the need for customer hardware and infrastructure and allows users to access SmartPlant Enterprise applications, project and plant maintenance environments via a simple URL, regardless of global location. SmartPlant Cloud presents all users with their relevant information, data and documents to support each user's work processes and decision-making.

SmartPlant Cloud provides a software ecosystem that allows engineering, procurement and construction (EPC) and owner operator companies to provision users with the required engineering software tools and utilities. The service, which is accessed through an intuitive web-based portal, has been configured to adapt to company specific standards, engineering workflows and processes. SmartPlant Cloud provides rapid deployment, robust security and a dynamically scalable environment that has been designed to specifically support all sizes of projects and assets for both the owner operators and EPC's, regardless of global location. Intergraph has been supplying SaaS to a select customer base for a few years already, and it is now making it commercially available.

"The first SmartPlant Cloud customers are very enthusiastic about the solution," said Kevin Holmes, Intergraph vice president and global director of Cloud Services. "All plant models, data, drawings and documents can be created, modified, viewed and retrieved from SmartPlant Cloud, whether these are

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SmartPlant Enterprise tools or a number of selected third-party applications currently delivered from SmartPlant Cloud. SmartPlant Cloud allows customers and their subcontractors in capital projects and operating facilities to design workflows, standardize processes and create templates that can be replicated across projects, teams and regions."

Gerhard Sallinger, Intergraph Process, Power & Marine president, said, "Global projects are larger and more complex and therefore, plant design software and engineering data solutions need to respond quickly to these challenges. Cloud computing represents one step further in serving our customers, to allow them rapid and cost-effective decision-making and execution. So, we are excited to add SmartPlant Cloud services as an option to clients in addition to our existing and very successful enterprise software business model, so that clients can choose what's best for their situation."

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Japan: Cooperation between CONTACT Software and TECOSIM Bears Fruit

11 April 2013

CONTACT Software and TECOSIM Japan have introduced the Fast Concept Modelling toolset (FCM) at several Japanese automobile manufacturers. In Japan, the specialist in numerical analysis and simulation acts as a reseller for CONTACT's innovative concept tool which can be used to validate the future behavior of products even during early development phases. CONTACT and TECOSIM have already been cooperating in Germany for a number of years. In the recent past, for example, they worked together on the electrical StreetScooter vehicle, which was specially designed for short journeys, and are now cooperating in the recently launched "Robust Design Optimization" joint project, which is supported by the German Ministry for Economics and Technology (BMWi).

TECOSIM is a much sought-after international development partner in the field of computer-aided engineering (CAE) and is a market leader in the transport segment. The group of companies has its head office in Rüsselsheim and has subsidiaries in Great Britain, India and Japan. In line with the corporate claim "Better life by simulation", a team of approximately 400 computational engineers worldwide develops solutions for the business fields transport, energy, industry and technology, and health. The company's CAE specialists use a range of simulation tools to support customers by identifying the future behavior of components during the early stages of product development and interpret the data accordingly.

With FCM, CONTACT offers a CATIA add-on that permits the simple, rapid development of geometrical models and the automatic export of FE models for crash, NVH and static analyses. "CAE is the route to better products, shorter development cycles, reduced resource consumption and lower environmental impact," says Yuki Yoshi Taguchi, managing director of TECOSIM Japan. "The use of FCM further accelerates the process from initial product idea through to validated concept, with the result, that our customers benefit from even greater time and cost advantages."

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KEY to METALS Expands Material Property Library Exclusively for Altair Partner Alliance Users

10 April 2013

The [Altair Partner Alliance](#) announced today that its existing partner, [Key To Metals AG](#), has enabled the brand new Premium Edition of its software exclusively for availability to users of the Altair Partner Alliance (APA). KEY to METALS Extended Range expands the previous library to include a more extensive list of metals, while the Premium Edition includes everything offered by KEY to METALS and Extended Range, as well as adding new materials, such as ceramics, composites and polymer materials. Also included exclusively for APA users is the brand new functionality that allows selection and export of advanced property data from the database into specific solvers ready for direct import into CAE software.

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KEY to METALS (KtM), originally launched within the Partner Alliance in January 2012, and has experienced great success since, being well received by APA users. KtM quickly became one of the APA's most downloaded tools, with an average of more than 50 companies using monthly and over 300 users worldwide.

"We have been extremely satisfied with our experience as part of the Altair Partner Alliance thus far," said Neil Baumann, COO for Key to Metals. "We have chosen to provide a unique application to our APA customers to enhance their user experience, as well as to allow for increased versatility and extended capabilities of the library."

Developed exclusively for APA users, KtM has introduced KEY to METALS Premium Edition. This version provides brand new functionality that allows users to efficiently and accurately move material property data from the KEY to METALS database into CAE software, including Altair's own [HyperWorks](#), through an array of customized and solver compatible formats. Premium Edition also includes a new non-metallic material property library, called PLUS, already containing more than 10,000 polymer materials, as well as ceramics and composites, and more than 500 stress-strain curves for plastic materials, which continues to grow constantly.

"It is no secret that material properties are key to getting correct answers with finite elements simulations," said Dave Mason, Altair's vice president of global automotive. "We are very pleased with the success of KEY to METALS in the APA program, and are confident the expanded material libraries and integration with HyperWorks in this new Premium Edition will bring tremendous value and opportunity to our users."

This Premium version includes KEY to METALS Extended Range, which provides a material properties resource for advanced structural and thermal calculations and analysis. It provides stress-strain curves, fatigue data, fracture mechanics information and creep data for thousands of materials. Combined with readily available elastic range properties for more than 100,000 materials worldwide, Extended Range saves users time and money through intelligent search methods and enhances the depth and quality of information required for CAE and FEA analysis.

KEY to METALS utilizes international cross-reference tables, making it possible to find and compare materials from around the world. Such data as chemical compositions, mechanical and physical properties, heat treatment diagrams, and properties at elevated temperatures are available to users. KEY to METALS supports global businesses by being available in 21 languages, including Japanese, Russian, Chinese, Korean and Arabic, to name a few.

Applicable almost anywhere in the engineering world, KEY to METALS and Extended Range are currently functional in a large number of industrial sectors, such as automotive, aerospace, heavy machinery, power and energy, electronics and technology, plus many more diversified groups. KEY to METALS Premium Edition is expected to have an even larger array of possible and functional applications, due to its extension into non-metallic materials.

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Available for the last 12 years, Altair's innovative units-based licensing system allows [HyperWorks](#) users customizable access to a growing portfolio of applications, optimizing their return on investment (ROI) by making more than 28 in-house-developed applications available by use of a single pool of recyclable HyperWorks units (HWUs).

After experiencing this original licensing model's success, Altair has offered the opportunity for third-party companies to run their own applications under this unit-based system, a collaboration now known as the Altair Partner Alliance. The overall flexibility of these HWUs empowers users and allows them access to the largest and most complete suite of CAE applications available, making the benefits to participating HyperWorks customers infinite. The ROI increases for users each time a new application is added to the offering, since any of the partner programs can be accessed using the same leased HWUs they are already using to run HyperWorks. This makes more than 55 additional applications available at no incremental cost or long-term commitment.

HyperWorks users can download KEY to METALS Premium at www.altairalliance.com/ktm. To learn more about Key to Metals, please attend one of the [introductory webinars](#), being held on April 22, 2013 at 9 a.m. and 1 p.m. EDT. These webinars will be hosted by Altair and presented by Key to Metals.

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Latest Free CAD Release – MEDUSA4 Personal Version 5.1.2

11 April 2013

CAD Schroer has just made version 5.1.2 of its free MEDUSA4 Personal mechanical CAD system for Windows and Linux available for download. The software and renewable 12-month license file are available at http://www.cad-schroer.com/Software/Free_CAD/pk/204

Free for Private Use, Pay-Per-Result Portal for Commercial Applications

MEDUSA4 Personal is a comprehensive 2D/3D CAD suite, which has a strong reputation among hobby and model engineers, as well as among professional design engineers. People are using the CAD package free of charge on DIY projects, or for detailed model engineering designs. Those working on patent applications or starting or running small businesses can also take advantage of the free software, merely paying a small fee to convert any results that are to be used commercially via CAD Schroer's eSERVICES portal. Schools and universities are increasingly using MEDUSA4 Personal as an introduction to CAD for the next generation.

Download MEDUSA4 Personal:

http://www.cad-schroer.com/Software/Free_CAD/pk/204

eSERVICES Portal for business users:

<http://eservices.cad-schroer.com>

What's New in MEDUSA4 Personal 5.1.2?

In this release the CADConvert interface offers full support for the DXF/DWG format from AutoCAD® R12 through AutoCAD 2012. It also includes improved handling of special characters and of extremely small and large geometry in imported drawings. The performance of the MEDRaster module for integrating photos and images into designs has been further improved. Version 5.1.2 also includes additional 2D drawing tool and construction line enhancements, as well as improvements to the handling of layers and of extremely large sheets.

New Youtube Videos

“We’ve added new MEDUSA4 Personal tutorial and demo videos to our Website to help users get started, as well as to use more advanced functionality, like turning a DXF into a simple 3D model,” explains CAD Schroer’s Sergej Schachow. “And we’ll regularly be adding more.”

View the MEDUSA4 tutorial videos:

http://www.cad-schroer.com/Software/Free_CAD/Tutorial_Videos/pk/204

As well as supporting Windows XP, Vista and 7, MEDUSA4 Personal is released for five Linux distributions: CentOS, Fedora, RedHat EL, openSUSE and Ubuntu.

Free Download: MEDUSA4 Personal Version 5.1.2 - 2D/3D CAD for Windows or Linux

http://www.cad-schroer.com/Software/Free_CAD/pk/204

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NCSIMUL Machine 9, SPRING Technologies’ Latest Solution, Offers "Touch'NC" Simulation to the Shopfloor

8 April 2013

SPRING Technologies has announced that it is among the first NC simulation software developers to offer mobile functionality in its latest release, NCSIMUL Machine 9, running on Windows 8 Pro and INTEL certified. Now operators can access a realistic graphical representation of the machining process and other relevant data, in real time, right next to the machine. “In many cases it’s impossible to see what’s happening at the tool-workpiece interface,” says Silver Proisy, U.S. General Manager for SPRING. “The doors are closed and high-pressure coolant is splashing in the cabinet interior. With NCSIMUL 9, customers can head out onto the shop floor with their touch screen tablet PC equipped with Windows 8 and SPRING’s NC Player (NC simulation viewer), and access all of the program’s features including cutting tool libraries, current cutting conditions, simulation, other part programs, and all the relevant published documentation.”

While the hardware and software capability is here and now, most customers have yet to fully embrace the concept. “We are front runners in this functionality,” said Philippe Solignac, Corporate Marketing

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Director. “It’s brand new. How and where it’s applied will evolve over time, but we anticipated the need, especially among our customers just entering the field that grew up with technology who will demand the ability to be on the move and not tied to an office PC. We believe it’s a work lifestyle on the verge of exploding.”

More about NCSIMUL MACHINE 9

SPRING is a Microsoft-certified “Gold” partner and an INTEL Software Partner. As such, NCSIMUL Machine 9 incorporates new ribbon technology navigation, enabling users to work more efficiently. Tasks are now accessed via tabs that break down into tasks and sub-tasks. The new interface has been specifically designed to work on touch screen devices to facilitate mobility. The intuitive and context-sensitive icons are presented as a rapid access bar, boosting programming productivity.

The "NCSIMUL Machine hub" apps enable users to browse any shared jobs available on the enterprise network or replay NC simulations with one-click. Flexible project-based management, tree organization, project/article/sub-article, jobs copied between projects, simplified search mechanism, job templates are among the new features in NCSIMUL Machine 9.

Also, the software makes full use of Intel’s multi-core processors and multithreading. Collision detection and material removal calculations are performed simultaneously. Algorithms have been revised and optimized to support ISO decoding, probing, material removal with tools in 3D, and optimized cutting conditions.

NCSIMUL Machine 9 also provides new interactive programming features that automate G-code generation from 3D motions or allow dynamic editing of the NC program to see the consequences in the 3D view. In addition, the newest 3D functional dimensioning module, particularly geared to sub-contractors enable users to add 3D graphics to workpieces and create a document describing the list of dimensions that need checking at each machining stage. This is a significant step forward towards a paperless factory.

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Nemetschek Vectorworks Announces Release of Vectorworks Nomad 2.0

10 April 2013

Nemetschek Vectorworks, Inc., has released a new version of the Vectorworks® Cloud Services mobile application, Vectorworks Nomad 2.0.

The 2.0 version of Vectorworks Nomad lets users view, share, measure and annotate files. Enhancements include new redline drawing shapes, a sheet layer sidebar palette, angle and path measurement modes, improved download and upload performance and improved annotation text

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objects. The app is now available for both iOS and Android devices and can be downloaded from the Apple App Store (<http://tinyurl.com/d6g9sdz>) and the Google Play Store (<http://tinyurl.com/cy3vxnh>).

“The updates and enhancements in Nomad 2.0 were based on feedback we received from customers,” said Dr. Biplab Sarkar, chief technology officer of Nemetschek Vectorworks, Inc. “The ability to view, measure and annotate files in an offline mode provides even greater freedom, as users can make design decisions in the field without a network connection. And now, even more designers can take advantage of our mobile app, as it supports Google’s Android platform.”

Vectorworks Cloud Services is available to members of the Vectorworks Service Select subscription program. To learn more, please visit www.vectorworks.net/cloudservices.

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New Autodesk Homestyler App Transforms Your Living Space into Design Playground

11 April 2013

[Autodesk, Inc.](#) unveiled the new [Autodesk Homestyler](#), a free* iPad app for creative, real-time home design that allows users to blend high-quality 3D models of products from popular brands with photos of their interior spaces. The app also provides users with access to inspiring ideas from a community of designers and design enthusiasts.

“We’ve taken home design to a new level of ease with the Homestyler app for iPad. The app is unique because it can transform a single snapshot into a virtual home design playground,” said Samir Hanna, vice president of Consumer Products at Autodesk. “Extending this technology on iPad lets our users express their creativity on the go, tap the existing vibrant community to find inspiration for their home and showcase their personal style with greater ease than ever before.”

Homestyler, a free* online [home design software](#), has brought interior design plans to life since 2010. Now optimized for the iPad, the new Homestyler app offers a wide selection of 3D models of real furniture, home decor and appliances so users can digitally try out everything from rugs and mirrors to paint colors and light fixtures.

For professional designers and brands looking to reach and engage with consumers, the Homestyler app allows them to better communicate their design ideas and reach decisions faster in expressing their vision for their home or office whether playing with new paint colors or viewing 3D models of furniture within the space.

The Homestyler app offers brands—including the high-end design brand B&B Italia, Jonathan Adler and Sherwin-Williams—a unique opportunity to inspire customers by providing them with access to high-quality 3D models of products and make smarter interior design choices, leading to more confident

purchase decisions.

“The Homestyler app lets users tap into more than 1,500 Sherwin-Williams colors for inspiration as they create their perfect space,” says Jackie Jordan, director of color marketing, Sherwin-Williams. “Color is a critical element of design, and the new iPad app is a great way to explore the impact of different hues and the relationship between wall colors and furnishings.”

In an Infogroup Opinion Research Corporation survey, sixty-five percent of U.S. consumers said they would be less likely to return a product after viewing it in 3D**. Users can also find inspiration by browsing the collection of 2D and 3D designs, photos and articles uploaded by design enthusiasts and interior design professionals who are part of the over one million-strong Homestyler community. Additionally, home interior design projects designed through the new Homestyler app can be shared with friends through email or social media networks.

The Autodesk Homestyler app for iPad is available for free* exclusively from the App Store on iPad or at: <https://itunes.apple.com/app/homestyler/id601137449>. The Homestyler online software can be accessed at: <http://www.homestyler.com/>.

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PTC Continues Commitment to Automotive Industry with Enhanced Safety Standard Certifications

8 April 2013

PTC today announced it continues its commitment to the automotive industry standards that help [automotive manufacturers](#) comply with key industry safety related systems. The latest release of [PTC Integrity](#) software has been certified as Fit for Purpose for functional safety development in alignment with IEC 61508 and ISO 26262 (functional safety standard for passenger vehicles). In addition, the PTC Integrity development organization has achieved Capability Level 2 under the Automotive SPICE (Software Process Improvement and Capability Determination) framework.

“Automotive development organizations are managing complex requirements for embedded software in their products,” said Jake Simpson, divisional general manager, ALM segment, PTC. “Continuing to certify PTC Integrity with automotive safety industry standards like A-SPICE and ISO 26262 will help our customers comply with functional safety standards to ensure safe software development processes.”

PTC Integrity is an [application lifecycle management](#) solution that manages all global software development processes and connects all software engineering artifacts, including requirements, models, code, and testing, to ensure comprehensive lifecycle traceability.

A-SPICE is a framework for designing and assessing software development processes. When implemented effectively, it leads to better processes and better product quality. It also helps to improve

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the cooperation among complex supply chains and between globally distributed development and engineering centers. Method Park, a global consulting company, has assessed the PTC Integrity development processes at Capability Level 2.

TÜV SÜD Automotive, a global leader in technical certification services, has certified that PTC Integrity is fit for the purpose to develop safety-related systems for use in ISO 26262 and IEC 61508 compliant development processes. This independent assessment of PTC Integrity single platform approach and software change and configuration management, requirements management and test management capabilities enables automotive engineering organizations developing safety-related embedded systems to qualify the tool chain being used to produce these systems up to ASIL-D or SIL3, the most stringent levels of safety function as defined by the standards.

PTC Integrity has an open architecture to integrate disparate tools into a streamlined software system engineering process to allow orchestration of software change and collaboration across the technology supply chain. With PTC Integrity, development teams can improve productivity and quality, streamline compliance and gain complete product visibility, which ultimately drives more innovative products into the market.

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Ricardo Software Embeds HEEDS Technology in IGNITE System Modeling Tool

10 April 2013

Ricardo Software and Red Cedar Technology (RCT) announced a partnership today whereby Ricardo will embed the industry-leading design system exploration technology from RCT into their new vehicle driveline system modeling & simulation tool, called IGNITE.

“The key objective of creating high-fidelity system models is to be able to explore innovative design concepts and push the envelope of performance. The Design Space Exploration (DSE) technology from RCT was a perfect fit for our product,” stated David Higbie, Global Director of Ricardo Software. “We wanted design exploration capabilities that were both powerful and very easy to deploy. RCT provided that.”

Ricardo Software plans to make the new design optimization capability available in every copy of IGNITE, beginning with the first commercial release, scheduled for Q3 2013. This capability will allow engineers to quickly identify design variables and constraints, select quantities to minimize or maximize, and easily find optimal designs and design sensitivities.

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Safety Drives the Digital Plant Upgrade, says AVEVA

8 April 2013

AVEVA announced its publication of a new business paper – *Seeing Through the Fog* – describing how recent advances in both 3D laser surveying and Information Management technology combine to enable the capture and use of an accurate digital counterpart of a brownfield plant. It explains how Owner Operators of existing facilities can now take advantage of the kind of ‘digital plant’ information asset created in new-build projects.

'A third of plant information is typically out of date within five years, but users may not know which third, so it is easy to see how this can compromise plant safety for Owner Operators,' said Bruce Douglas, Senior Vice-President, EDS Strategy & Marketing, AVEVA. 'The inability to share trustworthy information easily across a site not only hampers normal operations, it makes it difficult to find vital information rapidly when responding to an incident.'

Whether a plant is brand-new or decades old, Owner Operators need rapid access to comprehensive and reliable information. One essential element of this is accurate knowledge of the true as-operating condition of the plant. Laser surveying offers a rapid, non-invasive and affordable means of creating accurate and detailed 3D representation of brownfield assets. The business paper discusses the capture of the as-operating asset using 3D laser scanning and how technology can then add intelligence to the scan and link 3D objects to their associated information in many other sources.

'Asset information exists in a variety of incompatible forms,' added Dave Coppin, Executive Vice President, Enterprise Solutions, AVEVA. 'Operations personnel waste considerable effort in finding and verifying the necessary information for essential tasks. In an emergency, this can be critical. Information management technology now provides the solution to this problem, but it cannot create information where none exists. That is the power of laser scanning; now it becomes practical and affordable to capture the as-operating asset and build up a "digital plant" information asset. Safety and operational excellence are the primary drivers for doing this, but the practical benefits cover every aspect of plant operations.'

The paper further examines how, by going beyond simply visualising data, laser scan models can also be used for purposes such as determining accessibility or space constraints when performing risk assessments or the planning of major maintenance tasks.

[Download *Seeing Through the Fog - How laser scanning technology can bring clarity to asset management*](#)

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SAP Aligns New Solutions with “Industry 4.0” Innovation to Steer Customers Through Improved Production Process

8 April 2013

Underscoring a commitment to innovating the manufacturing process as part of “Industry 4.0,” [SAP AG](#) announced new releases of manufacturing solutions and updates for existing solutions covering engineering, manufacturing and sustainable operations. The announcement was made at [Hannover Messe 2013](#), being held April 8-12 in Hannover, Germany.

The manufacturing industry today is facing a technological milestone. Machines, production facilities and warehousing systems are able to autonomously exchange information, trigger actions and control each other, promising huge improvements in the industrial processes involved in manufacturing, engineering and service. This fourth industrial revolution, called Industry 4.0, offers the promise of bringing two worlds together — industrial manufacturing and next-generation IT — to create a new level of efficiency and effectiveness.

SAP is adapting Industry 4.0 principles through the development of “Idea to Performance,” a holistic business approach to increase product and service performance. The approach enables full management of a product’s entire life cycle from design to service within distinct scenarios. For example, “Responsive Manufacturing” delivers end-to-end processes integrating the plan-to-produce process. Embedded quality and compliance controls enable manufacturers to address nonconformance through corrective and preventive actions while simultaneously setting more predictable and shorter cycle times, helping to both improve asset utilization and support on-time delivery.

“Idea to Performance” incorporates enablement of new and existing solutions by SAP® Business Suite software powered by the SAP HANA® platform, [first introduced in January 2013](#). “Responsive Manufacturing” is planned to be underpinned by offerings powered by SAP HANA, including the SAP® Overall Equipment Effectiveness Management (SAP OEE Management) application, which is planned to collect machine data via machine-to-machine (M2M) communication and transform it into analytical insights; the material requirement planning capability within the SAP® ERP application, which aims to deliver high-speed reads for a 50 percent reduction in run time; and the SAP® Product Portfolio Management application, which is intended to help improve the run time of critical project management transactions.

“At Elster, we see Industry 4.0 as an opportunity to engage with products that steer themselves intelligently through the production process and save all relevant data,” said Roland Essmann, project lead MES, Elster GmbH. “SAP is one of the few IT companies who can cover all relevant processes end-to-end from R&D, engineering, construction, to sales in one standard system. With SAP Manufacturing Execution and SAP Manufacturing Integration and Intelligence, data are well prepared to be transferred to a product and vice versa, and the solutions are web based, which is important to realize Industry 4.0 as well.”

User Experience: Anytime, Anywhere Insight

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To improve user experience across all applications, SAP is investing in making solutions more intuitive and appealing to users. Planned updates include:

- SAP OEE Management, which aims to enable enterprise-wide production analytics comparing assets and performance across multiple sites. This enables comparable operations according to unified standards using HTML5 based, touch enabled cockpit on desktops and on tablets. A shop floor dispatching and monitoring tool for SAP, which will enable manufacturing production orders to be efficiently and flexibly scheduled on a graphical user interface.
- New synchronized releases of the SAP® Manufacturing Execution application, the SAP® Manufacturing Integration and Intelligence (SAP MII) application and SAP® Plant Connectivity software, which will provide efficient manufacturing execution and visibility into shop floor operations.

Core Applications: Improving Quality

SAP's focus on Industry 4.0 centers on both new innovation and strategic updates to core applications, including those available via mobile app, helping ensure greater efficiency and increase product quality. Updates include:

- The SAP® Quality Issue Management (SAP QIM) application, which is intended to complement the quality management capabilities of SAP Business Suite by managing quality issues across the entire value chain.
- The SAP® ERP Quality Issue mobile app, which enables employees to log a quality issue with a mobile device, to create a quality notification, and to monitor the resolution process.
- The SAP® Complex Manufacturing Accelerator mobile app, which helps increase shop floor efficiency for manufacturing across the entire process, from issue identification to resolution.

Rapid-Deployment Solutions: Delivering Results Faster

SAP® Rapid Deployment solutions deliver preconfigured software and implementation services in one package, enabling customers to realize specialized business benefits within a shortened timeframe while laying the foundation for future expansion. Updates include:

- The SAP® Multiresource Scheduling rapid-deployment solution, a fast way to implement a powerful resource planning solution that helps companies promptly fulfill service requests from one graphical planning tool.
- The SAP® Asset Data Quality rapid-deployment solution, which gives customers the ability to assess, validate and continuously monitor the quality of their asset master data.
- The SAP® Condition-Based Maintenance rapid-deployment solution, which allows for the streamlined implementation of a fixed-price, fixed-scope offering so customers can quickly begin optimizing a maintenance strategy.

“In today’s competitive business environment, there is renewed focus on manufacturing as a space for innovation and revolution; IT provides significant potential for business process innovation in manufacturing,” said Kerstin Geiger, senior vice president, Solution Management, Discrete and Process Industries, SAP. “By investing in predictive analytics and new technologies to help users in maintenance and after-market service, we are better able to serve the manufacturing industry as it continues to grow

and evolve.”

For more information, visit the [SAP Newsroom](#).

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STARC Certifies MATLAB and Simulink as Preferred Tools in New STARCAD-AMS Design Workflow

9 April 2013

[MathWorks](#) announced today that the Semiconductor Technology Academic Research Center (STARC) in Japan has selected and certified [MATLAB](#), [Simulink](#), and [Embedded Coder](#) as the preferred tools for Model-Based Design in its new STARCAD-AMS design flow. STARC is the Japan semiconductor industry consortium of which member companies are Fujitsu Semiconductor, Panasonic, Renesas Electronics, Rohm, Sony and Toshiba.

Now, Model-Based Design using MATLAB and Simulink can be incorporated as a pre-qualified system level platform by participant member companies in the standard semiconductor design and verification flows of their Mixed-Signal design project.

The STARCAD-AMS approach standardizes the analog/mixed-signal ASIC design flow and eases migration between system-level design and circuit-level design through a prescribed inter-design tool cooperation methodology. In this improved flow, engineers perform system-level behavioral modeling and simulation in MATLAB and Simulink to take advantage of extensive libraries of blocks and functions, as well as fast simulation speeds. This flow continues with automatic C-code generation with Embedded Coder and custom System Verilog extensions that interface and integrate the behavioral models in industry-standard downstream EDA tools. In an evaluation project with the new design flow – featuring Model-Based Design and automatic code generation, and conducted on a motif circuit prepared by STARC – the development time was reduced by approximately 50 percent.

The STARCAD-AMS design flow uses Model-Based Design to enable three key activities:

- System-level modeling and simulation of behavioral models, which allow engineers to collaborate across system-level and analog-circuit-level design.
- Optimization of system design parameters, by creating an analog/mixed-signal large-scale integration (LSI) design environment at the system level.
- Automatic code generation for interfacing and integration with industry-standard downstream EDA tools, using Embedded Coder.

“Creating a workflow that streamlines system-level design for mixed-signal ASICs was a new challenge, which came with a mix of expectations and uncertainty,” said Kunihiro Tsuboi, STARC's senior manager of mixed-signal design group, R&D Department Div. 2. “However, STARC was able to test

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and witness the high quality and flexibility of MATLAB and Simulink, which allowed us to quickly and effectively solve design issues as they arose. We are also very impressed with the quality of support and speed of response that MathWorks provided throughout the process.”

“Model-Based Design continues to help increase collaboration, tool integration, and generation of C-code across the semiconductor industry,” said Sameer Prabhu, industry marketing director, MathWorks. “ASIC developers across the globe can now adopt the design platform that has been tested and preapproved by STARC – one of the leading centers for semiconductor design methodology in the world. The new STARCAD-AMS design flow improvements will help engineers gain added confidence in the quality and speed of their development efforts.”

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ZWCAD+ 2012 SP2 Released

8 April 2013

ZWCAD Design today officially launched [ZWCAD+ 2012 SP2](#) highlighting greatly-enhanced image and hatch modules, as well as easy online collaboration functionality. With excellent design efficiency and user experience, the new service pack represents a leap from the previous versions.

“All the enhancements of this service pack aims at making ZWCAD+ meet more critical requirements for professional design, therefore users can enjoy a higher accuracy and fluency by working with large raster images, as well as a higher level of efficiency with visualization operations, such as Hatch.” said Daniel Huang, ZWCAD Product Manager. “We hope users will enjoy the difference it makes,” he added.

Superior display accuracy and fluency for large raster images

ZWCAD+ 2012 SP2 is equipped with a brand new image engine, which enables ZWCAD+ to process images more fluently. Designers will easily find some improvements, such as much smoother preview, insert, pan and zoom actions than before. Every single detail of an image will be ready to display in the blink of an eye when users put it into work. The instant response and clear display from the image enhancement will be especially obvious with images over 1 G.

More versatile hatch functions for excellent efficiency

The Hatch module in ZWCAD+ 2012 SP2, is equipped with new Boundary Edit providing a quick and flexible way to modify the existing hatched area. Designers can change the shape of a hatched area by removing the boundary instead of creating a new one.

In a bid to save more time for users in testing out each change to the object, the unique Dynamic Preview tool allows designers to see the changes in real time without quitting the hatch dialog box when they create or adjust a hatch.

Easy online collaboration between PC and mobile devices

ZWCAD+ now enables users to view their design on mobile devices, including tablet and phone. Through integrated third-party cloud services, like Dropbox and Google Drive, you can easily edit and remark your design on your devices anytime, anywhere. You only need to, first [download ZWCAD Touch](#) on your IOS mobile devices; second, authorize the third-party cloud services integrated in ZWCAD Touch; and last, save your drawing in the cloud service and open it with ZWCAD+ on your computer.

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