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CIMdata News

Systems Engineering: At Teamcenter's Core: a CIMdata Commentary

18 October 2012

Key takeaways:

- *Lack of resources, increasing product and supply chain complexities, and increasing customer and regulatory demands are driving the need for and adoption of systems engineering.*
- *Systems engineering and PLM are complementary, and companies that use PLM to enable systems engineering will have a competitive advantage.*
- *The current release of Teamcenter delivers comprehensive systems engineering support built on years of broad and deep expertise and functional capabilities.*
- *The future of product development productivity and competitiveness demands that systems engineering be supported.*

In today's hyper-competitive business environment, companies across almost all industrial sectors have no choice but to find more efficient and effective ways to deal with the lack of resources, increasing product and supply chain complexities, and increasing customer and regulatory demands. Exploiting the product-development discipline of Systems Engineering and enabling it with the information and process management capabilities offered by today's leading Product Lifecycle Management (PLM) solutions is proving to be a truly innovative strategy. For many, this strategy is a new way of working to manage the growing complexity of product development and the associated product lifecycle, to smooth the incorporation of emerging technologies, and to leverage the combination of systems engineering and PLM into a sustainable competitive advantage.

Today's Systems Engineering Push

Systems engineering is a cross-functional methodology created specifically to manage all of the "pieces" of complex projects and products—specifications, designs, and analyses; verifications and validations; hardware and software; data and personnel; procedures and operations; and manufacturing facilities, production systems, and industrial engineering, to name a few. This methodology is a comprehensive and holistic approach to develop, deliver, and support optimum product solutions. At its core, it defines and associates requirements to functions, functions to logical representations, and logical representations to physical designs—providing an architectural framework for the downstream physical implementation of all the systems associated with the product, including manufacturing, support, and ultimately recycling.

As an interdisciplinary field of engineering, systems engineering focuses on how complex engineering projects and their associated deliverables (i.e., products) should be designed and managed over their lifecycles. Beginning at Bell Labs in the 1940s, systems engineering was developed to address the difficulty of designing complex systems, where the properties of the system might differ greatly from the sum of the properties of its parts. The discipline has notably been adopted in aerospace and defense.

The International Council on Systems Engineering (INCOSE) is a professional society, created to address the need for improvements in systems engineering practices and education. Since about 2000, INCOSE has championed the development of SysML. Since 2007, they have promoted model-based systems engineering (MBSE) as part of their 2020 vision for systems engineering.

A core idea of MBSE is to move the practice of systems engineering from a document-centric to a model-centric paradigm. The system is described in a modeling language like SysML, and different domains (e.g., manufacturing, design, analysis, or marketing) access the single model, though they each may have different views of the information. In the old paradigm, each domain had its own documents, and synchronizing the documents to maintain the dependencies and keep them consistent was a major issue.

MBSE is seen as a required evolution of the practice of systems engineering to handle increased system complexity and the integration across disciplines like mechanical design, electronics, software, and controls. Among the benefits of this approach are:

- *Improved quality*—e.g., early identification of requirements issues, enhanced system design integrity, fewer errors during installation and training, and more rigorous requirements traceability.
- *Increased productivity*—e.g., improved impact analysis of requirements changes, reuse of existing models to support design and technology evolution, and automatic generation of documentation.
- *Reduced risk*—e.g., improved cost estimates and early and ongoing requirements validation and design verification.

State of Adoption

Unfortunately, in many of today's manufacturing enterprises, systems engineering and PLM are often not seen as complementary, and beyond aerospace and defense, and some automobile manufacturers, systems engineering isn't a common way of working. Fundamentally, most companies design parts and components, and then integrate them, instead of designing systems. In addition, they use documents and spreadsheets to manage requirements, and not "live" interactive models to describe and simulate their products that are often comprised of systems of systems.

CIMdata research and experience indicates that requirements, which are a critical component to enabling a robust systems engineering practice, are generally not well understood. This is complicated by the fact that they must be optimally partitioned across the complete product, including mechanical, electronic, software, and other designed elements. Companies can no longer just build the next version smaller, thinner, lighter, stronger, or "better" on some other metric of interest to customers, to meet their requirements. They are reaching their limits of understanding regarding the relationships between different parts of their products due to the widespread use of spreadsheets to manage requirements. The increasing software and electronics content in products in many markets is making product development, manufacturing, installation, and support even more complex—in some cases beyond what is tenable. In our industrial consulting, CIMdata sees many symptoms of this problem:

- Unstated or poorly defined requirements—not clear, concise, and valid.
- Requirements scattered around the organization—no single source of the truth.
- Requirements accepted from any sources—no matter their validity.
- Poor, or no, management of requirements—often leading to scope creep.
- Inability to validate that a design will meet the approved requirements—before, during, or after build.
- Tests prove what was built—rather than what should have been built.
- High levels of re-work—throughout project execution.

Systems Engineering and PLM

Systems engineering enabled with PLM can sort out product development difficulties that have existed for many years. Often these challenges result from a lack of effective strategies to make ongoing product development visible at the extended enterprise level (i.e., across the various organizations and disciplines that are responsible for product development). Enabling systems engineering with PLM gives users new decision-making tools to address these and other challenges.

PLM-enabled systems engineering empowers users to put the entire extended enterprise on a solid footing to optimize a product for its lifecycle. New-product managers struggle with conflicting product requirements, short-lived market windows, and rising demands for regulatory compliance. They need all the help they can get—in particular, a mechanism that helps them to quickly and effectively perform multi-discipline business-impact and trade-off analyses. PLM provides the best way to ensure that the product and the associated lifecycle experiences are optimized.

Using holistic systems modeling methods enabled by PLM, engineers can better manage the design and lifecycle business tradeoffs. This lets them design at the systems level and to synthesize subsystems. PLM manages the requirements, and when enabling systems engineering, it also tracks design changes against requirements and the relationships between components, subsystems, and systems against all of their requirements; and tracks all of the inputs from those who are responsible for design, production, and support.

Enabling systems engineering with PLM holds forth the promise of the single logical source of the truth. The greatest challenge engineers face is to find the necessary information and verify its source and accuracy. This problem dates back to the dawn of the Industrial Age. A single logical source of the truth, particularly at the project level, multiplies any project team's effectiveness. A single version of truth is critical for effective decision-making and business success.

Up to this point we have discussed requirements of new products as if they were static. They are not; quite the opposite. In every successful business, new-product requirements are dynamic. That is partly why those requirements are often unclear, unstated, scattered, and/or mismanaged—they are constantly in flux. The extension of product development beyond engineering and the explosion of social media have added numerous small cascades of information and opinion to the process. As it is usually

implemented, systems engineering is not especially well equipped to deal with these externally imposed cascades. PLM is however, due to its internally consistent tool sets and interrelated data.

Systems Engineering and Teamcenter

Siemens PLM Software's (Siemens) understanding and support of systems engineering is both broad and deep. Siemens' systems engineering roots date back to the early 1990s and the SLATE (System Level Automation Tool for Engineers) product, which was developed at Texas Instruments to help design and manage complex electronic systems. The technology was later purchased by SDRC to help manage the fuzzy front end of complex products being developed by their customers. When EDS purchased SDRC in 1999 and combined it with the UGS organization, the SLATE technology was merged with UGS' products to integrate systems engineering with the product lifecycle. This merger was accomplished in multiple incremental steps, with the introduction of the Teamcenter Unified platform in 2007 providing a major breakthrough.

The 2007 Teamcenter release represented Siemens' new PLM platform based on a Services Oriented Architecture (SOA) and a new Business Modeler Integrated Development Environment (BMIDE). As part of the 2007 release, Siemens took the first step towards Model-Based Systems Engineering—a core component of what Siemens commonly calls its “Systems Driven Product Development” strategy. This release took advantage of the core requirements management capabilities that earlier versions of Teamcenter supported, combined with the new platform's inherent support of requirement data items as part of its core data model. The platform's core capabilities introduced in 2007 allowed users to capture and share requirements using Microsoft Word, create properties, manage their evolution, assign them to product configurations, and link them to other objects—a major step forward in integrated systems engineering support. With this approach, requirements were linked and traceable as part of the overall product lifecycle, and they could be linked to specific product configurations—as well as participate in structured workflows, change processes, and project schedules. This allowed Teamcenter users to assess the impact of requirements changes and understand what requirements would be affected by proposed changes. While the Teamcenter Systems Engineering module was still a standalone application with this release, requirements were part of Siemens' new integrated PLM platform.

With the release of Teamcenter 8, Siemens further expanded core-requirements management capability to include “live” integration with Microsoft Word and Excel, which enabled users to capture, edit, and manage requirements from either Teamcenter or the native Microsoft applications, and the changes were automatically reflected in both Teamcenter and Microsoft. To help share decision support information such as requirement intent, assumptions, trade-offs, and concerns with downstream stakeholders, “Sticky Note” functionality was added. In addition, capabilities were added that exposed requirements and the multitude of dependencies and relationships in Teamcenter's graphical relationship browser. To address the demands of globalized design and manufacturing environments Siemens also incorporated multi-language support in the release.

With its release of Teamcenter 9, Siemens made another crucial step forward. This release introduced the integration of systems engineering and requirements management into the product lifecycle, leveraging “live” integration with Microsoft Visio as the embedded systems diagramming tool to create Teamcenter objects, connections, and ports (i.e., signals and messages), and to establish trace links from

requirements to functional elements. As part of its “open” strategy, Siemens also introduced Teamcenter integrations with MathWorks MATLAB and Simulink, further leveraging its extensive data model. With these capabilities, Teamcenter managed all the models and relationships with other parts of the product. This release of Teamcenter enabled all three main components of Siemens’ Systems Driven Product Development strategy: requirements-driven product development with full configuration control; a model-based design approach for defining, simulating, and optimizing; and integrations to third-party supporting tools for all the necessary lifecycle domains.

Siemens’ current release of Teamcenter, Teamcenter 9.1, leverages a data model that provides the ability to capture, manage, and share all the functional, logical, and physical implementation information generated in each design domain, as well as the appropriate dependencies, allocations, and associations between design objects. These relationships and cross-domain dependencies provide the traceability needed to identify the specific subsystems, domains, configurations, data, and design objects impacted when changes are proposed anywhere in the product lifecycle.

The current release of Teamcenter Systems Engineering has come a long way from its roots in SLATE. Teamcenter Systems Engineering represents a highly integrated PLM-enabled solution. CIMdata’s research and experience indicate that the potential payoffs for companies that utilize such an integrated approach can be significant. The benefits from the convergence of systems engineering and PLM show up in hard numbers as well as in “softer,” less readily calculable ways. The largest of the hard numbers lies in the single logical source of the truth. The huge amounts of time engineers spend in searching for and validating information can be cut by as much as ninety-five percent. That could double or triple the productivity of individual engineers in creatively solving problems. The most dramatic of the “soft” payoffs is better collaboration. By itself, collaboration can do more for the sustainability of the enterprise than any dollars-and-cents return on investment (ROI). After all, the benefits of collaboration add to margins year after year. An ROI payback goes to the bottom line, but only once. A final gain when systems engineering and PLM are joined, as they are in Teamcenter, is reducing hidden risks. In the absence of sound enterprise information asset strategies, information and valuable insights can be lost. This can impose huge costs on future products because of poor decision making, repeated mistakes, and lessons learned that are not passed on.

Where to Begin

For many industrial organizations the concept of systems engineering, is just that, a concept. While many are talking or thinking about it, most really don’t understand how to go about defining and implementing the organizational, process, and technological changes necessary to move from a mindset of part and component design and system integration, to one where the product is designed and optimized from a systems and lifecycle perspective. As with other approaches that require a significant set of changes, companies need to first focus on the least risky improvements that lay the foundation for future and more significant improvements. When it comes to systems engineering, one of the first steps in what is usually a multi-year journey, is to define the organization’s vision, goals, and objectives related to systems engineering (i.e., what is the organization trying to achieve and why). Next the organization should map out the main steps to reach its vision—usually this will be the identification of the organizational, process, and technological changes that will be required, and the expected ROI. Once these two critical steps have been completed, the organization can begin executing its plan, making

adjustments as required.

Finally, there are a few things that an organization should consider as it embraces a systems engineering approach:

- *Don't try to do everything at once*—organizational, process, and technological changes and their adoption will take time.
- *Start with defining and managing requirements*—they are the key foundational element of systems engineering.
- *Always look to enable people, processes, and technologies in support of systems engineering*—embracing and enabling systems engineering is a complex journey that impacts all of these factors and it will take time and energy.

Adoption of systems engineering across industrial sectors is minimal today, but it is expected to grow significantly over the next five to ten years. If a company hasn't considered adopting the core philosophies, then it is critical that they do so in the near term. The future of their product development and business competitiveness demands it.

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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Company News

ARC Advisory Group Ranks Siemens a Leader Across all PLM Software Market Segments

16 October 2012

In a recently published report, [Siemens PLM Software](#) has been recognized by analyst firm, ARC Advisory Group, as a leader across all segments of the product lifecycle management (PLM) industry market. These segments include Innovation Management, New Product Development and Introduction (NPDI), and Portfolio Management; Collaborative Design (CAD/CAM/CAE); Product Data Management (PDM); Manufacturing Process Management (MPM)/Digital Manufacturing; and Service/Support/Content Management.

“Business is good for Siemens PLM, with strong license growth for 2011 and major wins in automotive and A&D (aerospace and defense). The good news for Siemens PLM and the PLM market in general is that new markets like energy, shipbuilding, and healthcare provide a significant amount of this new growth,” said Dick Slansky, senior analyst and PLM Research director, ARC Advisory Group.

“Business has rebounded well in the automotive, aerospace, and industrial & heavy equipment sectors, all traditional strengths for the PLM market. Siemens PLM continues to focus on these industrial verticals with constantly evolving design/build solutions.”

ARC’s PLM Market Outlook report specifically highlights Siemens PLM Software’s vision as a key strength in its ongoing market leadership. As stated in the report:

“Since acquiring UGS in 2007, the Siemens vision is to provide a complete PLM solution from concept & design, through manufacturing, and down to factory production systems and automation. It is about unifying the product and production lifecycles. They are able to leverage their parent company, Siemens Industry Automation, with its comprehensive product line of automation hardware and software, to offer their customers this end-to-end design/build/automate solution.”

“ARC’s report confirms that we are the market leader in key industries such as A&D, medical products, shipbuilding, electronics and electrical,” said Chuck Grindstaff, president and CEO, Siemens PLM Software. “In shipbuilding specifically, we eclipse other vendors with nearly 50 percent of the total market share – and this strong market share is in an industry projected to grow at a double digit rate for the next several years, according to ARC. We believe that as long as we remain steadfast in our commitment to offer solutions that help our customers make smarter decisions resulting in better products, we will continue to expand our market leadership.”

Siemens PLM Software addresses the PLM market with its [Teamcenter® portfolio](#), [NX™ software](#), an integrated solution for computer-aided design, manufacturing and engineering (CAD/CAM/CAE), [Tecnomatix® portfolio](#), and [Solid Edge® software](#), a 3D CAD system for the mainstream market.

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Comet Solutions and Red Cedar Technology Sign Partnership Agreement to Advance Process Automation and Design Optimization

18 October 2012

Red Cedar Technology announced today that it has signed a strategic partnership agreement with Comet Solutions, Inc. to integrate HEEDS multi-disciplinary design optimization technology with the Comet Performance Engineering Workspace.

“Outstanding progress has been made to date in leveraging detailed CAE models to reduce hardware prototypes and verify design performance before production,” states Bob Ryan, President and CEO of

Red Cedar Technology. “The next frontier is to automate the process of building virtual prototypes, allow for multi-fidelity models to address different disciplines, and provide efficient design optimization. This partnership is focused on making this concept a reality.”

The Comet Performance Engineering Workspace leverages a proprietary Abstract Engineering Model to enable both process automation and multi-fidelity models. By linking this with the revolutionary technology in the HEEDS multi-disciplinary optimization software, the design space of a complete CAD and CAE system model can be quickly explored and the design can be efficiently optimized.

"Comet Solutions shares with Red Cedar Technology the goal to deliver benefits of simulation with far less expertise and complexity required, thus making CAE tools easier to use and more accessible for product teams, states Dan Meyer, President and CEO of Comet Solutions. “By offering our customers the HEEDS product for design optimization, we provide a more complete, yet simpler, solution for rapid and robust design space exploration. Our partnership will result in opportunities to integrate two innovative, leading products that together enable customers to select the best design concepts in less time."

Under the terms of the agreement, Comet Solutions will immediately become a reseller of the HEEDS MDO software from Red Cedar Technology, and work will begin to provide tighter software integration between the Comet Workspace and design exploration and optimization software from Red Cedar Technology.

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Engineering Technology Associates, Inc. and Red Cedar Technology Form Strategic Partnership to Offer Complete Die System Simulation and Optimization Solution

15 October 2012

Engineering Technology Associates, Inc. (ETA) announced that they have formed a strategic partnership with Red Cedar Technology to offer a complete and powerful solution on the market for die system simulation and optimization. Under the new arrangement, ETA will embed Red Cedar Technology’s proprietary optimization technology, SHERPA, into a module of its DYNAFORM™ product. The new module will be called OP, for Optimization Platform, and will initially be focused on supporting drawbead optimization to determine proper binder force, lubrication, gage, and material. The module will also support 2D optimization of blank shape and size. Eventually, the two companies expect to offer full auto die face optimization.

The new OP module features an internal incremental solver that delivers exceptional speed using symmetric multiprocessing (SMP) on dual core and quad core PCs running Windows 7.

“This partnership brings fast and effective optimization of die systems to the desktop environment, says Bob Ryan, CEO of Red Cedar Technology. “Until now, optimizing these systems was too difficult and

time-consuming to be practical for most applications.”

ETA plans to introduce this latest module of DYNIFORM™ at the end of Q4, 2012 as part of DYNIFORM™ release 5.9. The OP module will use the same common interface as the other four modules of DYNIFORM™ that include Blank Size Engineering (BSE), Die Face Engineering (DFE), Formability Simulation (FS), and Die System Analysis (DSA).

“ETA evaluated the SHERPA optimization engine while developing our proprietary Accelerated Concept to Product (ACP) Process™ during the Future Steel Vehicle program,” stated Arthur Tang, Vice President of ETA. “Based on that work, it was clear that SHERPA was the best solution for DYNIFORM optimization. We’re pleased to offer such powerful optimization capabilities in a convenient and affordable die simulation package.

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Infor Opens Headquarters in New York City, Unveils New Branding

18 October 2012

[Infor](#) today opened its new corporate headquarters in New York City. Located in the heart of the New York's "Silicon Alley," known for its high concentration of engineering firms, design houses, established technology companies and start-ups, Infor's headquarters features an open environment designed to maximize collaboration and drive innovation. Infor also unveiled new branding to reflect the company's aggressive focus on innovation, and highlight its deep industry expertise.

"The opening of our new headquarters and reveal of our new brand marks the culmination of a two-year period of significant transformation at Infor," said Charles Phillips, CEO of Infor. "Building on decades of industry specialization, the new Infor is focused on accelerating innovation and delivering beautiful applications that emphasize clarity and ease-of-use, helping customers make decisions with remarkable agility and astonishing speed, wherever they are -- at the office or on the go."

Infor's new corporate headquarters is located at 641 Avenue of the Americas (6th Ave.) and will house 75 employees during the first year. Designed by professionals from [VOA Associates](#), the Infor space has an open flow, without traditional offices, to enable the free-exchange of ideas and information. Infor's Chief Executive Officer as well as several members of Infor's executive management will be based from the new headquarters.

In addition to housing many corporate and administrative functions, Infor will launch a new ION Experience Center at the operations center in Alpharetta, where experts from development and consulting services will collaborate directly with customers to build tailored environments that enable customers to take advantage of Infor ION and cloud or hybrid deployment models.

At the heart of the new Infor brand is a refreshed logo and website, designed by Hook & Loop, Infor's in-house creative agency, to be reflective of the new design of Infor applications. Infor has prioritized beauty as a competence, providing a look-and-feel that represents accessibility, openness, and agility in a crisp, straightforward way.

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Intergraph® Breaks Ground on New Corporate Headquarters

16 October 2012

Intergraph® has commenced construction of its new headquarters in Madison, Ala. The new headquarters will be located on the current Intergraph campus and is projected to open in summer 2014.

Keeping Intergraph's established employee base in Northern Alabama was a priority for both Intergraph and Hexagon, its parent company. The five-story facility will total 250,000 square feet and will feature office space for 1,100 employees. In addition, the new headquarters will include a state-of-the-art data center, customer-friendly conference space, a food service area and lakeside terraces for both work and leisure.

“For the first time in Intergraph's history, we are bringing employees at this location together under one roof, which I'm confident will foster innovation and camaraderie,” said Intergraph CEO Ola Rollén at today's groundbreaking ceremony. “The building is a testament to Hexagon's commitment to Intergraph and the Madison County business community.” Ola Rollén is also President and CEO of Hexagon.

“We are all very excited about what the new facility means for the employees of Intergraph,” said Ed Porter, Executive Vice President of Human Resources with Intergraph. “We would like to extend our sincerest gratitude to the Chamber of Commerce of Huntsville/Madison County, Chairman Gillespie, Mayor Finley and Mayor Battle, as well as Madison city and county officials, for helping make it a reality.”

The \$58-million facility was designed by Atlanta-based architecture firm Cooper Carry, and the construction will be carried out by general contractor Robins Morton and civil engineering firm 4Site, both of Madison.

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K2D Becomes Distribution Partner for InspectionXpert in Europe

18 October 2012

K2D-KeyToData GmbH, a provider of CAD software and digital design communication solutions, today announced that it has signed a distribution partnership contract with InspectionXpert Corporation,

a leading provider of AS9102 and PPAP inspection reporting software.

K2D will support InspectionXpert Corporation in expanding a European reseller network to sell the InspectionXpert product line and provide service and support to customers in Europe. “K2D has done extremely well in serving InspectionXpert customers in Germany, Austria and Switzerland. We have decided to build on that success and further expand our reseller network in Europe,” says Jeff Cope, President of InspectionXpert Corporation.

“We are very pleased to become distribution partner of InspectionXpert Corporation and to expand the reseller network in Europe. InspectionXpert provides AS9102 FAI and PPAP software for ballooning inspection prints and automating inspection reporting,” explains, Jochen Layer, CEO of K2D. “This is critical for improving productivity and accuracy in the quality department of any company in Europe, particularly with aerospace and defense, automotive, medical device, oil and gas, and contract manufacturers.”

The InspectionXpert product line helps quality departments create ballooned or stamped inspection drawings and models, import CMM results from any CMM, and create first article inspection reports (FAIR), first piece reports, in process and receiving inspection reports, control plans, inspection plans and more. InspectionXpert works with 2D inspection drawings in CATIA, SolidWorks, Solid Edge, AutoCAD, Pro/ENGINEER, Creo, and PDF/TIFF, and 3D models in CATIA V5.

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Lantek Expands its Technological Partnership Base in the Structural Steel Industry with GRAITEC

16 October 2012

Lantek and GRAITEC, specialists in BIM (Building Information Modelling) are collaborating to integrate their software solutions to provide a seamless design and manufacturing solution for the structural steel industry. Furthermore, the partnership will allow both companies to expand and consolidate their businesses in new markets.

Lantek develops and markets CAD/CAM/MES/ERP software solutions for the sheet metal and structural steel industry and, with the announcement of the signing of a collaborative agreement with [GRAITEC](#), aims to develop its extended technical innovation programme. The alliance will enable both companies to offer clients a single, integrated and technologically advanced system. The partnership signifies the start of a professional relationship for the two companies, enabling them to consolidate their position in the sheet metal and steel construction industry at an international level.

GRAITEC, which has its head office in France, is a pioneer in the development and marketing of software dedicated to structural design and engineering for the construction industry. It has more than 25 years of experience in this market, 12 branch offices dotted around Europe, North America and Asia-Pacific, a team of 260 employees and more than 40,000 users worldwide.

CIMdata PLM Late-Breaking News

With a turnover of more than 25 million Euros in 2011, [GRAITEC](#) is able to offer a complete and integrated range of design and structural analysis solutions for the steel, concrete and wood construction industries. GRAITEC offers innovative BIM technology, which increases productivity and safety through automation, integrated design and process control. Its software has the capacity to intelligently exchange data, making collaboration between professionals in construction design and those in the construction sector simpler and more flexible by facilitating sound, intelligent and fluid communication.

As part of the collaborative agreement, the two companies are working on a bi-directional integration process between the GRAITEC Advance BIM software and the [Lantek Steelworks](#) solution. This will bring together both technologies, by sharing the models designed in GRAITEC Advance Steel. As a result, a structural steel project will be able to be managed in Lantek Steelworks and its progress fed back into Advance Steel, providing users with a flexible and simple management process. The benefit is a more powerful and rapid solution, which makes it possible to dynamically generate and manage structural project information, substantially reducing the time and resources spent on design and construction.

As part of the collaboration the two companies will coordinate the innovation process and reserve the necessary technical and human resources to achieve their goals in such a way as not to affect their normal product development schedules. As part of this process, Lantek has implemented a training programme for its technical team in GRAITEC's products to speed up and effectively manage the integration.

“Lantek intends to integrate with all structural design software applications on the market,” says Alberto Martínez, CEO at Lantek. “This initiative enables Lantek, once again, to manifest its desire to develop integral, dynamic and ultra-efficient solutions which are at the forefront of technology and adapted to the needs of users, enabling them to increase their competitive edge”.

“GRAITEC, just like Lantek, is an innovative and flexible company which focuses on globalisation and technical collaboration in order to enrich its solutions, particularly within the framework of structural construction,” says Alexandre Tartas, Managing Director at GRAITEC. “We are very pleased about this initiative, as it means working with a company renowned in the industry. It allows us to enhance our Advance Steel solution from a functional and technical point of view, and gives us the means to respond efficiently to the challenges which face companies and structural engineers.”

In Addition, the partnership between the two companies will give them both the opportunity to tap into new fast-emerging markets and increase their presence in other countries such as the United Arab Emirates and Asia for GRAITEC, and Canada and Romania, Eastern Europe for Lantek.

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Lectra Appoints Tania Garcia as Vice President, Marketing for North America

18 October 2012

Lectra is pleased to announce the appointment of Tania Garcia as Vice President, Marketing for North America.

Reporting to Roy Shurling, President of Lectra North America, Tania Garcia is based in Atlanta, Georgia. She will oversee Lectra's marketing in the North American market, which includes Canada, the United States and Latin America. Tania Garcia is responsible for ensuring manufacturing and fashion customers in the region are kept abreast of Lectra's advanced production and software solutions.

"Lectra is strengthening its team in North America as a response to the needs of customers in the automotive, fashion and furniture sectors, who demand more effective solutions based on their business operations, goals and competitive landscape. This diverse, dynamic and exciting market is ideal for Lectra because our comprehensive range of solutions is perfectly suited to meeting customers' requirements," said Daniel Harari, Lectra CEO.

The tremendous increase in manufacturing in Latin America, and continued strength of US manufacturing, is generating high demand for Lectra's Vector® cutters, as well as for its consulting services that help customers improve their efficiency. On both coasts of the US, and in Montreal (Canada), the increase in fashion design means companies are seeking ways to improve their development processes and capabilities. "Tania's knowhow and experience will help drive the expansion of Lectra's solutions across North America, so that we provide the most added value to our customers' operations," added Daniel Harari.

"Lectra's customers in North America face ongoing change and a redefinition of the marketplace, requiring them to develop alongside companies that are able to adapt and redefine themselves. Lectra does this as a matter of course, collaborating with major brands to identify industry challenges; and providing what our customers really need," highlighted Tania Garcia.

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LMS International and Red Cedar Technology Collaborate for Improved Multidisciplinary Systems Design

16 October 2012

LMS International has partnered with Red Cedar Technology, a Michigan-based engineering optimization software and services provider, to offer to the engineering community the capability for simulating and optimizing mechatronic systems with novel technologies to reach the best balance of targeted attributes.

Multidisciplinary systems optimization is a key challenge for most of the advanced industries. With this agreement, LMS further increases the innovative functionalities it provides to existing and new clients,

while Red Cedar Technology expands its support for optimization of mechatronic systems design through the integration of LMS Imagine.Lab AMESim and HEEDS MDO.

“The optimization of mechatronic systems is far from being trivial since every choice the engineer makes is a compromise on the targeted system’s performance. The ability to reach the optimal design is highly dependent on the engineering software tools’ capabilities and the intrinsic industrial knowhow. HEEDS is a powerful tool that will further push the limits of systems optimization. Through this collaboration with Red Cedar Technology, we can bring the novel optimization techniques of HEEDS to the large community of Imagine.Lab AMESim users,” states Nicolas Orand, Director of LMS Imagine.Lab products.

“This partnership brings a new level of design exploration capability to mechatronic system developers,” concurred Bob Ryan, CEO of Red Cedar Technology. “Due to the multi-disciplinary nature of mechatronic systems, it is difficult for designers and engineers to develop strong insight into the changes required to optimize the performance of highly-coupled electrical, hydraulic, pneumatic, and mechanical systems. HEEDS, working together with AMESim, makes it possible to find innovative designs faster, and develop better experiential insight.”

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MecSoft Announces Alibre CAM Transition from 3D Systems to MecSoft

16 October 2012

MecSoft Corporation announced that effective October 15, 2012, Alibre CAM, a fully integrated CAM product running inside the Alibre Design family of CAD products, will now be sold and supported directly by MecSoft. Prior to this announcement, Alibre CAM was sold and supported by 3D Systems, while MecSoft developed and licensed the software.

“The relationship between MecSoft and 3D Systems remains strong, and we both feel strongly that the Alibre CAM line of products has been very successful and can continue to grow and gain additional market share,” stated Max Freeman, General Manager of Alibre.

MecSoft will be announcing shortly the newest version of the software, Alibre CAM 3.

While both MecSoft and 3D Systems have a well established reputation for great customer support, the transition of the product to MecSoft will be to the greatest benefit of Alibre CAM customers. “By having a direct interface with us, customers will have a dynamic and powerful experience with regard to effecting changes in the product, receiving support, and having a community of people to ask questions and draw experience from”, stated Joe Anand, CEO of MecSoft Corporation. “Alibre CAM customers can rest assured that MecSoft is committed to the continued development and support of Alibre CAM and their investment in the product is protected.”

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Mentor Graphics Announces 24th Annual PCB Technology Leadership Awards Program Winners

16 October 2012

Continuing its tradition of promoting and recognizing printed circuit board (PCB) design excellence, Mentor Graphics Corporation has announced winners of its 24th annual PCB Technology Leadership Awards. Started in 1988, this program is the longest running competition of its kind in the electronic design automation (EDA) industry. It recognizes engineers and designers who use innovative methods and design tools to address today's complex PCB systems design challenges and produce industry-leading products.

Industry experts judged entries from around the world in six categories representing a wide variety of industries. The PCB industry expert judges included Happy Holden, director of electronics technologies, GENTEX Corporation; Gary Ferrari, technical support director, FTG Circuits; Pete Waddell, president of UP Media, publisher of Printed Circuit Design & Fab/Circuits Assembly magazine; Andy Kowalewski, senior interconnect designer, AdvantagePCB; Charles Pfeil, engineering director, Mentor Graphics; and Rick Hartley, senior principal engineer, Avionics Division of L-3. Also this year an honorary judge was included: Dr. Russell F. Henke, high-tech business consultant since 1996 and EDACafe.com contributing editor since 2003, and founder of the original TLA program.

“With 47 years in electronics, I've learned what it takes to make a circuit and PCB board function precisely as it should, especially in this very high-speed world of today. The screaming edge rates drive us into the need for impedance control and high-power integrity, the likes of which we've not seen before,” stated Rick Hartley, senior principal engineer, Avionics Division of L-3 and a judge for this year's competition. “I have never given a score to a design as high as the one I ranked as the overall winner—it's just unheard of, how good that design is! Overall, I am amazed at how terrific almost every design was this year.”

2012 Technology Leadership Award Winners:

Category: Best Overall Design

- Company: Selex Galileo, UK
- Design team: Simon Hawkes, Mark Butt, Kelly Perryman
- Using: Expedition Enterprise

Category: Computers, Blade & Servers, Memory Systems

1st place: Fujitsu Technology Solutions, Germany

- Design team: Andreas Schaefer, Peter Kastl, Andreas Neumann, Mario Lanteri, Markus Wicher, Andreas Titz, Peter Bräu, Benjamin Zeller, George Emanuel Valceanu
- Using: Expedition Enterprise

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2nd place: Samsung Electronics, South Korea

- Design team: MiKyoung Nam, Sungho Jung, Myung-Hwa Jung, Chunglyol Lee
- Using: Board Station XE

Category: Consumer Electronics & Handhelds

1st place: Qualcomm, USA

- Design team: Larry Paul, Byron Coleman, Brad Davis, Bruce Fischer, Andy Lejman
- Using: Board Station XE

2nd place: TP Vision Singapore

- Design team: Richard Hoong, Looi Lai Yin, Tan Li Li, Ng Kim Yan
- Using: Board Station XE

Category: Industrial Control, Instrumentation, Security & Medical

1st place: Emerson Control Techniques, USA

- Design team: Michael Weinberg, Robert Cottell
- Using: Expedition Enterprise

2nd place: CiBoard Electronic, Germany

- Design team: Michael Schwitzer, Thomas Blasko
- Using: Expedition Enterprise

Category: Military & Aerospace

1st place: Aselsan, Turkey

- Design team: Sefika Ozkal Piroglu, Murat Karadeniz, Inanc Dogru, Hakan Cimen, Serkan Ozyurek, Halil Ibrahim Yaslak
- Using: Board Station XE

2nd place: IAI Elta, Israel

- Design team: Benny Lazar, Haouji Jean-Pierr
- Using: Board Station XE

Category: Telecom, Network Controllers, Line Cards

1st place: Alcatel-Lucent, USA

- Design team: Ramfis Rivera-Colon, Rick Mctee, Greg Martin, Bob Novonty, Jeff Bridgett, Conrad Herse, Ken Krueger, Joseph Gomez, Jay Kreminski, Sergio Olmos
- Using: Expedition Enterprise

2nd place: Tellabs, Finland

- Design team: Peter Kokko, Juha Ahvenainen, Sami Jokinen, Sauli Kunnas, Jyrki Nyysönen, Matti Pulkkinen, Jukka Raappana, Hannu Saarikoski, Kimmo Valkonen, Päivi Vallin, Ilari Veki,

Jyrki Vuorinen

- Using: Expedition Enterprise

Category: Transportation & Automotive

1st place: Johnson Controls, USA

- Design team: Scott Smith, Petar Slavov, Krzysztof Russa
- Using: Expedition Enterprise

2nd place: Huizhou Desay, China

- Designer: Tan Baichuan
- Using: Expedition Enterprise

The on-demand webinar highlighting industry trends and the winners of the 2012 TLA competition can be found at www.mentor.com/go/tla.

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Microdesk Earns Autodesk Simulation Specialization

17 October 2012

Design technology consultancy, [Microdesk](#), announced that it has earned the new Autodesk Simulation Specialization designation for value added resellers (VARs) from [Autodesk, Inc.](#)

As an Autodesk Specialized Partner, Microdesk has shown that they have made significant investment in their people, have a solid business strategy related to their specialization area, have excellent customer references, and that they can provide a high level of engineering and design simulation and analysis experience and support to the architecture, engineering and construction, and owner/operator (AECO) industry.

Autodesk [Simulation software](#) enables designers and engineers to perform analysis such as energy modeling, structural analysis, and mechanical performance reviews. By leveraging these technologies early in the design process, designers can more effectively investigate behavior, test innovative concepts, and optimize designs before manufacturing or construction.

"Achieving the Simulation Specialization is a testament to Microdesk's outstanding consulting staff and depth of industry expertise," said Mike DeLacey, president of Microdesk. "Our team of architecture, engineering and construction specialists includes long-time industry veterans with expertise in design simulation technologies and processes. This team enables us to provide our clients with an unparalleled level consulting and support on integrating solutions that result in more efficient, sustainable designs."

The new Autodesk Partner Specializations highlight Autodesk partner expertise in delivering services in key industry areas. Specialization is achieved by completing rigorous curriculum requirements and training, as well as meeting required levels of service and standards set by Autodesk. Microdesk's achievement of the Simulation Specialization demonstrates through their strong customer service and support in sales what it means to be a trusted adviser to Autodesk customers worldwide.

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Opel Supports PACE International Academic Research Network

19 October 2012

In a ceremony at the company's headquarters, Opel's long-standing partner, the RheinMain University of Applied Science, has been accepted into PACE (**P**artners for the **A**dvancement of **C**ollaborative **E**ngineering **E**ducation). PACE was established in 1999 by GM and other founding partners, and provides selected international academic institutions with support for training automotive designers and engineers, such as state-of-the-art CAD/CAM/CAE and PLM (**P**roduct **L**ifecycle **M**anagement) software.

The RheinMain University is the second in Hesse to join PACE, and with the RWTH Aachen, only the third in Germany. RheinMain is also the first university of applied science to become a member of PACE. A total of 58 universities around the world belong to the exclusive network.

During the acceptance ceremony Dr. Thomas Sedran, Deputy Chairman of Opel, emphasized the importance of support for research and training: "Our involvement in PACE is real hands-on support for students, and thus an investment in our own future. Close cooperation with local academic institutions is especially important in business-intensive areas like the Rhine-Main region. In regions like this, where there are so many high-tech locations such as our own Engineering Center in Ruesselsheim, active support for scientific studies and research is as necessary as an effective infrastructure between suppliers and the auto industry."

The RheinMain University now has access to new opportunities for on-the-job research and training at the highest technological level. PACE helps academic institutions not only in the development of their training and research projects, but also in their cooperation with partner companies and other participating universities.

Opel has been connected with the RheinMain University of Applied Science for decades. Professional training and on-the-job experience at Opel are part of the university's studies in engineering.

General Motors was one of the founders of PACE in 1999 and remains one of the main sponsors. In addition to GM and Opel, HP, Oracle, Autodesk and Siemens PLM are the other partners and sponsors of the network. More information about PACE and the RheinMain University of Applied Science can be found by clicking on the following links: www.hs-rm.de/ and www.pacepartners.org.

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PROSTEP Incorporates Codex of PLM Openness in Product Development

15 October 2012

PROSTEP AG has incorporated the Codex of PLM Openness (CPO) in its product development process. The independent provider of PLM solutions has implemented the requirements formulated in the CPO in its product development as [announced](#) in March 2012 and will in the future also support the further development of the codex.

The CPO defines criteria for the openness of IT solutions used in product lifecycle management (PLM). The objective is to ensure that once data is created within a company it can be used throughout the entire product lifecycle.

The criteria for PLM solutions include interoperability for efficient communication, integrability (for the infrastructure) and functional extensibility. Furthermore, interfaces and standards are defined for the data formats and transparency in the architecture stipulated.

The CPO community comprises IT vendors, IT integrators and IT customers. PROSTEP actively supports the further strategic development of the concept of PLM Openness.

"As far as PROSTEP is concerned, the key elements of the CPO have always been an integral part of the company's strategy. After all, the company was founded by the automotive industry to develop standards and products for open PLM solutions," says Udo Hering, head of product management at PROSTEP AG. "It therefore goes without saying that the requirements formulated in the CPO will now be widely applied to the development of our software products OpenPDM, OpenDXM and PDF Generator 3D."

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PTC Selects Jotne Software Solutions for Interoperability to Support ISO/STEP/PLCS and AIA/ASD Standards

16 October 2012

Jotne today announced an agreement with PTC® where Jotne's software solutions "EXPRESS Data Manager" will support the ISO/STEP/PLCS and AIA/ASD S-Series standards within PTC applications. These data exchange standards were developed by and for the Aeronautics, Space and Defence industries including the Aerospace Industry Association (AIA) and its European counterpart ASD, which invested heavily in the S-Series standards (S3000L, S5000F, S1003X, etc.).

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PTC customers within the Aeronautics, Space and Defence industries will benefit from the Jotne solutions with improved capabilities for data exchange, sharing and archiving of product and service information using the above standards.

“Over the past 10 years, Jotne has supported PTC customers in solving data exchange requirements, and we are very excited that PTC has made the decision to incorporate the Jotne tools into its core application framework” said Jotne Vice President Kjell Bengtsson.

“After an extensive evaluation and benchmark, PTC selected Jotne’s EXPRESS Data Manager based on the strength, robustness and performance of the software, impressive customer loyalty and Jotne’s contributions to standards development.” said Will Kohler, PTC’s Senior Vice President of Product Management for PTC Windchill®.

The combined offerings from Jotne and PTC will help customers achieve competitive advantage by seamlessly exchanging data between key enterprise systems such as PLM, CAD, Supply Chain Management and Integrated Logistics Support.

For additional information, contact PLCS@jotne.com or (+47) 23 17 17 00.

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Synopsys Joins PACE Global Partnership

16 October 2012

Synopsys, Inc. today announced it has joined the Partners for the Advancement of Collaborative Engineering Education (PACE) program. Through the PACE program, Synopsys' Saber product line for the modeling and simulation of power, physical and multi-domain automotive systems will be provided to all 57 PACE institutions worldwide.

"Promoting math and science education around the world is a fundamental value at Synopsys," said Howard Ko, senior vice president and general manager of the Silicon Engineering Group at Synopsys. "Synopsys' participation in the PACE program demonstrates our ongoing commitment to enhancing engineering curriculums and builds on our strong ties to universities around the globe. By providing the PACE institutions with state-of-the-art power, physical and multi-domain automotive system design tools, we are equipping students to learn the skills they need to drive the future of the automotive industry."

PACE is an initiative by GM, Autodesk, HP, Oracle, and Siemens PLM Software to support strategically selected academic institutions through the contribution of computer-based engineering tools. The goal of PACE is to integrate essential automotive-related applications into 57 select institutions worldwide in order to develop the automotive product lifecycle management team of the

future. Through PACE, engineering students develop practical skills in the core applications and processes they will use in high-technology careers in industry. Synopsys and 16 other companies support PACE in this effort.

As advanced electronics and power systems continue to spread through all aspects of automotive design, Synopsys' tools equip engineers with powerful capabilities for the design, development and verification of automotive electronics, power systems and embedded software. Through the use of Synopsys® Saber tools, designers can rapidly and easily explore design alternatives, optimize system robustness and validate overall reliability and safety for a broad range of automotive applications including engine and powertrain management, driver assistance and in-vehicle infotainment.

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VCollab and HEEDS Users Get a Clear View of Design Optimization

15 October 2012

Visual Collaboration Technologies Inc. (VCTI), the creator of VCollab 3D Visual Collaboration Software for CAE, announced that it has formed a strategic partnership with Red Cedar Technology, Inc., the developer of HEEDS design optimization software, to bring enhanced visualization capabilities to the HEEDS 7.0 software release due out this year.

HEEDS software is an engineering design optimization product that helps customers discover better designs, faster. With VCollab technology embedded into HEEDS, users will get a visual depiction of complex model changes that occur during design optimization studies. The images help engineers fully grasp what changes in a design deliver better performance and which ones have adverse or no effect.

For a given evaluation in a design study, HEEDS can invoke the VCollab application, VMove, to create a robust yet lightweight CAX file representing a particular model change. In the HEEDS POST application, users can select any of the designs generated by HEEDS and see a corresponding CAD or CAE image using the embedded VCollab 3D Viewer. In the past, HEEDS users had to use native analysis tools and massive data files to view designs. With VCollab added, users can quickly and easily view changes directly from the HEEDS POST environment.

“You need a very big pool of good ideas to come up with one breakthrough idea—and HEEDS gives customers that pool,” said Prasad Mandava, CEO of Visual Collaboration Technologies, Inc. “With HEEDS, customers study a plethora of good designs from a context of variables, objectives and constraints to come up with a best possible design. Where HEEDS widens the number of exploration studies that can produce the best designs, VCollab widens access to them by bringing them into view for all team players, during each stage of the design cycle.”

“Adding visualization to the HEEDS design exploration process greatly accelerates experiential learning

and deepens the level of review possible for any given design,” said Bob Ryan, CEO of Red Cedar Technology. “Better review inevitably produces better engineering insight and better overall designs.”

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Events News

Adaptive Technology Solutions to Exhibit at AMTS 2012

17 October 2012

Adaptive Technology Solutions (ATS), a manufacturing CAD/CAM/CAE and Shop Floor Monitoring solutions provider, will be exhibiting at the Advanced Manufacturing Technology Show (AMTS) at the Dayton Airport Expo Center in Dayton, OH, October 24th and 25th. ATS will have on display Edgcam, a global leader in production CAM software solutions for solids machining and Multi-MDC /Monitoring/OEE, by Spectrum CNC Technologies, a browser based real-time machine monitoring system.

Visitors to booth 402 will also have the opportunity to view Edgcam Waveform in action. ATS, in cooperation with Superior Equipment and Melin Tool will be showing powerful machining demonstrations on a Feeler VMC using Melin tooling and Edgcam Waveform toolpath technology. Edgcam Waveform Roughing is a high speed machining technique that maintains a constant tool cutting load by ensuring the tool engagement into the material is consistent. The tool path moves in a smooth path to avoid sharp changes in direction which maintains the machine tool’s velocity. Visitors will see how this latest Waveform technology will reduce cycle times, increase material removal rates and improve tool life.

ATS will also be hosting their annual Edgcam User Group Meeting on October 25th at the show. The annual Edgcam User Group Meeting provides customers the opportunity to network, share best practices, and learn how the latest technology from Edgcam can help them to be more competitive and profitable. The User Group Meeting will conclude with a live Waveform demonstration.

ATS is also pleased to announce that Edgcam 2013 is on the horizon, please visit booth 402 at AMTS to learn more.

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Aras Sponsors PLM Innovation Americas Conference – October 25-26, Atlanta, Georgia USA

16 October 2012

Aras® today announced that the company will sponsor PLM Innovation Americas 2012 and participate in a panel discussion exploring open PLM standards. PLM Innovation Americas 2012 takes place October 25-26 in Stone Mountain, Atlanta.

PLM Innovation Americas 2012 attendees will have the opportunity to learn about the advanced capabilities of the Aras PLM platform in numerous presentations and exhibits. On Friday, October 26th, Marc Lind, Aras SVP of Global Marketing, will lend his expertise to a panel discussion entitled "Open PLM standards." The panel will explore the latest opportunities and challenges surrounding cross-platform interoperability, compatibility and integration. Attendees can also learn about the Aras Innovator® PLM solution suite from several Aras partners, including Actify, NobleTek, Kalypso, PSC, SofTech, Integware, Ilesfay, and xPLM.

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CimatronE a Productivity Booster for Brazilian Mold Shops

17 October 2012

[Cimatron Limited](#) today announced that its integrated CAD/CAM software, CimatronE, will be demonstrated at the Usinagem trade show, Sao Paulo, Brazil, October 16-19, 2012.

"CimatronE's powerful MoldDesign solution offers Brazilian tool shops a massive productivity booster, with customers reporting a reduction in the overall time taken to design any type of mold by up to 40%," said Alexandre Censi, Cimatron Group's country manager for Brazil.

"The Usinagem trade show provides a valuable opportunity for shops to see the strength of the software first hand. The CimatronE display will feature a live demonstration showing the design and manufacturing of a mold from a 3D scanned part, utilizing both CimatronE's MoldDesign and NC capabilities."

CimatronE's key mold making features include:

- Mold design - reliable data import; data heal and stitch; fast, accurate parting and cavity design; BOM generation; mold base plate libraries; core, cavity and slider generation; lifter and insert placement; ejection and cooling system creation; runner sketching; motion analysis and collision detection; and drafting.
- Electrode design and burning.
- NC programming - built-in CAD functionality; background toolpath calculations; efficient roughing; high quality finishing; 2.5-5-Axis capabilities; plate machining and drilling; advanced micro milling; simulation; a rich library of post-processors; and NC Setup and tool table reports.

The CimatronE display at Usinagem will be hosted by reseller Autoflow.

Visit the [Cimatron website](#) to view videos of CimatronE's MoldDesign capabilities.

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Dassault Systèmes Evolves Industry-leading Customer Forum, DSCC Becomes New “3DEXPERIENCE FORUM North America”

18 October 2012

Dassault Systèmes today announced that speakers from companies including Oracle Team USA, Bell Helicopter and Tesla Motors will be among those highlighting their successes during Dassault Systèmes’ annual North American forum. The former Dassault Systèmes Customer Conference has been renamed the 3DEXPERIENCE FORUM, and is being held November 6-7, 2012 at the Orlando World Center Marriott Resort in Orlando, Fla.

Dassault Systèmes’ annual customer event, reflecting the company’s own evolution, will focus on the industry’s movement from PLM to 3D experiences that allow customers to combine social innovation, realistic 3D virtual experiences and intelligent search-based technologies to innovate like never before.

Al Bunshaft, managing director, North America, Dassault Systèmes, commented, “As Dassault Systèmes enters its fourth decade as a global technology leader, our vision is clearer and more focused than ever. In 2012 we announced the pursuit of a new strategy based on our 3DEXPERIENCE Platform that will change the way industry leaders create value for their end consumers. The 3DEXPERIENCE Platform transforms the way ‘innovators will innovate with consumers’ by connecting designers, engineers, marketing managers and even consumers, in a new ‘social enterprise. Innovation must be democratized, serving as a catalyst to harmonise product, nature and life.”

“We are now in an experience economy, where experiences – memorable events that engage people in inherently personal ways – have become the predominant economic offering,” said Joseph Pine, cofounder of Strategic Horizons LLP, management advisor to Fortune 500 companies, and internationally acclaimed author of the best-selling book, “The Experience Economy: Work Is Theatre & Every Business a Stage.” Mr. Pine will keynote the 2012 3DEXPERIENCE Forum North America.

In addition to plenary sessions, customer case studies and networking events, the 3DEXPERIENCE Forum will offer attendees in-depth sessions on Dassault Systèmes’ new industry solution experiences, applications and virtual 3D experiences including its latest groundbreaking multimedia project, Paris 3D Saga, which tells the storied history of Paris in interactive 3D, captivating historians, archaeologists, researchers and a world of inventors.

Highlights from the event include:

- Joseph Pine will share his perspectives on how experiences have become today’s predominant economic offering and how digital technology, especially 3D, is greatly expanding the universe of experiences that companies can create;
- Bernard Charlès, Dassault Systèmes’ president and CEO, will discuss the 3DEXPERIENCE vision;
- Monica Menghini, EVP, Industry and Marketing, Dassault Systèmes, will showcase the 3DEXPERIENCE platform in action;

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- Christoph Erbeling, lead structural analysis and composite implementation engineer for Oracle Team USA, will explain how the America's Cup champion and defending team is using 3D software to design cutting-edge boats
- Glenn E. Isbell Jr., director of Systems Engineering and Engineering Operations for Bell Helicopter, will discuss how the company innovated its business processes and consumer experience using the 3DEXPERIENCE platform;
- F. Paul Lomangino, PhD, director of Engineering Operations, Tesla Motors, will talk about putting 3DEXPERIENCE into action to design, create, produce and collaborate; and
- Customers from a variety of industries, including transportation and mobility, life sciences (Johnson & Johnson) and energy, process & utilities (GE Energy), to name a few, will share how they've successfully transformed new product innovation by taking advantage of 3D experiences at their companies.

For real-time updates on news and happenings at the event, please follow @Dassault3DS or search for #3DXForum on Twitter. For more information about the conference, plus the link to register, please visit, <http://www.3ds.com/company/events/3dexperience-forums>.

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Delcam Taiwan to Show Complete CAM Range at TMTS

18 October 2012

Delcam Taiwan will demonstrate Delcam's complete range of CAM software on stand G311 at TMTS (Taiwan International Machine Tool Show) to be held at the Greater Taichung International Expo Center from 7th to 11th November. Programs on show will include PowerMILL for high-speed and five-axis machining; FeatureCAM for quick and easy feature-based CAM programming; PartMaker for turn-mill equipment and Swiss-type lathes; the Delcam for SolidWorks integrated CAM system; and ArtCAM for artistic applications.

At the exhibition, Delcam Taiwan will continue the celebrations of the 20th anniversary of its founding. These began last month with a commemorative user meeting that attracted a record attendance of over 240 delegates.

The most important new option in the 2013 release of PowerMILL will be the new Vortex strategy for high-speed area clearance. Vortex, for which Delcam has a patent pending, has been developed by the company specifically to gain the maximum benefit from solid carbide tooling, in particular those designs that can give deeper cuts by using the full flute length as the cutting surface. It can be used for two- and three-axis roughing, three-plus-two-axis area clearance and for rest machining based on stock models or reference toolpaths. Like other Delcam roughing strategies, Vortex toolpaths are calculated to give more efficient machining by following the shape of the part and by keeping air moves to a minimum.

FeatureCAM was the world's first feature-based programming software when it was launched in 1995. Constant development since then has ensured that the system has retained its leadership in programming speed and ease of use, while an increased range of strategies has been added to provide more efficient toolpaths giving greater productivity on a wider range of machines, including lathes, mills and mill-turn machines. The main change to the 2013 FeatureCAM product family has been the introduction of three levels of 3D machining functionality. FeatureMILL 3D Lite is a new option offering single-surface machining with a basic range of strategies and so provides an introductory product for companies moving into 3D machining for the first time.

PartMaker pioneered the field of CAM software for multi-axis turn-mill centres and Swiss-type lathes. The software offers a vast array of robust post-processors and machine-simulation files for virtually every machine model from all the leading builders. The 2013 version will feature a totally revamped surface-machining module offering PartMaker users some of the most powerful CAM machining algorithms on the market today for a variety of manufacturing platforms, including turn-mill centres, bar-fed mills and Swiss-type lathes.

Delcam for SolidWorks is a fully integrated CAM system for SolidWorks that combines the benefits associated with PowerMILL and FeatureCAM. It provides PowerMILL's exceptional speed of toolpath calculation, plus the advanced strategies for high-speed and five-axis machining, to ensure increased productivity, maximum tool life and immaculate surface finish, while also offering the same strong focus on ease of use as FeatureCAM. The 2013 release includes a new entry-level 3D milling option, plus many of the enhancements made to the 2013 version of FeatureCAM on which it is based. As a Gold Partner CAM product, it is, of course, fully compatible with the latest release of SolidWorks.

The new release of ArtCAM Pro will make it much easier to create complex designs, especially those that include repeated elements that are similar but not identical within the design. This new way of working, which is called 'Free Relief Modelling', allows previously-created reliefs to be identified and swiftly moved, rotated, rescaled and copied, either individually or as part of a group. The overall result is much more natural than simply duplicating a single shape across the design, while also being much quicker than modelling each item individually.

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Delcam to Launch Probing Capabilities in FeatureCAM at SEMA

15 October 2012

Delcam will launch new probing capabilities in its FeatureCAM feature-based CAM software on booth 10154 at the SEMA automotive specialty products show to be held in Las Vegas from 30th October to 2nd November. The ability to incorporate probing sequences into CAM programs will make it easier to undertake unsupervised production operations by allowing automated checks to be carried out before, during and after machining.

Other highlights of the 2013 version of FeatureCAM include a new series of options for three-axis

milling and enhancements to the five-axis machining, turning and mill-turn modules. Full details are available on the FeatureCAM 2013 learning zone at <http://lz.featurecam.com>.

With the new probing module, probing paths can be generated for five feature types: pockets, obstructed pockets and webs; inside or outside corners; bosses, bores and obstructed bores; radial bosses, bores and obstructed bores; and single surfaces. All of the resulting probing paths can be simulated and collision checked on the computer in the same way as cutting paths.

The new probing options can be used in a variety of ways. Before machining, sequences can be created to check that the expected part and fixture have been loaded, and that they have been placed in the correct orientation. The position of the part can be confirmed and fixture offsets introduced if required to compensate for any errors.

In a similar way, the amount of excess material can be detected on near-net shapes, such as forgings or castings. Offsets can then be introduced to give a more even distribution of the material that has to be removed, so improving machining efficiency.

Additional probing routines can be introduced at any stage during manufacturing. For example, as a cutting tool wears, it could be leaving too much material on the job. This trend could be monitored by regular probing of the parts being produced and a tool change introduced automatically as the material being left came close to the target tolerance. Alternatively, the tool offset could be adjusted to compensate for the reduced size of the cutter.

Similarly, critical features could be inspected immediately after they had been created to check whether too much material had been removed. If the parts were found to be outside tolerance, they could be scrapped immediately, rather than carrying on with machining and waiting for the results of an inspection at the end of the complete process. For example, if a crucial bore within the part had to be made to a particularly accurate tolerance, this could be machined and checked first, before continuing with the other, less critical, operations.

Probing routines can also be added for checking at the end of the process. While independent inspection on a separate measuring device would still be needed, the initial check on the machine would highlight any parts well outside the required tolerance so eliminating wasted inspection time. In some cases, it might be possible for the independent inspection be undertaken on intermittent parts to confirm the results from the probing on the machine, rather than on every part, again saving inspection time.

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ESPRIT 2013 by DP Technology at MASHEX 2012, Moscow, Russia, Oct. 22-25

15 October 2012

CIMdata PLM Late-Breaking News

ESPRIT® 2013, the latest version of the computer-aided manufacturing (CAM) software developed by DP Technology Corp., will be exhibited Oct. 22-25 at MASHEX 2012, scheduled to take in place in Moscow, Russian Federation.

MASHEX is the largest seasonal industrial exhibition in Russia and the countries of the Commonwealth of Independent States. Visited annually by thousands of industry professionals, MASHEX draws the world's technological leaders and provides a venue for the presentation of innovative products and technologies. As such, MASHEX is an effective platform for communication between business, industrial and manufacturing science representatives.

ESPRIT will be exhibited by Russian ESPRIT reseller LOCNITI at booth F405, where visitors will receive one-on-one demonstrations and presentations of features available within the latest generation. ESPRIT offers upgrades in all machining disciplines, including enhancements to turning, milling, mill-turn and wire EDM cycles.

New to ESPRIT 2013, the patent-pending ProfitMilling strategy for 2-, 3-, 4- and 5-axis roughing cycles allows customers to remove more material in a shorter amount of time. ProfitMilling is a high-speed roughing cycle that allows you to take a significantly deeper cut of the tool and increase the cutting feed. Rather than controlling just one parameter, ProfitMilling monitors several vital cutting and machine characteristics.

The ProfitMilling toolpath manages chip load and side-cutter force in the calculation of toolpath while keeping the engagement angle and material removal rate within a specific range. It also incorporates dynamic feedrate changes throughout the toolpath and takes advantage of toolpath optimization for specific machine capabilities.

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GRAPHISOFT Educational User Sessions at Ecobuild® America Highlight Open BIM and Green Building Special Breakout Sessions Discuss Productivity and Green Tech

16 October 2012

GRAPHISOFT will be offering Technology User Sessions at [Ecobuild® America](#), Washington, D.C., December 3-7, 2012. Top architectural design and technical experts will present strategies to help firms adapt to the evolving world of Building Information Modeling. Courses incorporate case studies, best practices for Open BIM, practical workflows, and new ideas into a highly collaborative learning experience.

“Efficiency is a critical element for success in the AEC space, especially when collaborating with a variety of technologies,” said Steve Benford, Managing Director, GRAPHISOFT North America. “GRAPHISOFT is committed to sharing the ways in which our tools provide a clear path to success.

CIMdata PLM Late-Breaking News

ArchiCAD offers solutions that support the use of coordinated, data-rich information models – giving all members on a project the opportunity to be more accurate and make informed decisions from day one,” he continued.

In a special user group session, GRAPHISOFT North America Business Process Leader, Monte Chapin, will lead a panel discussion on design and productivity efficiency in ArchiCAD. The panel will be made up of some of the most successful ArchiCAD firms in the industry today.

A brief summary of [GRAPHISOFT tech user sessions](#):

Client Communications with BIM – This session will explore how information in a BIM model can be easily understood by everyone involved. Gain insight on how to design and document without detouring from the business of helping your clients visualize, analyze, and virtually live in their projects prior to and during construction.

How to Increase Efficiency Using Open BIM Technology – A realistic examination of how using Open BIM technology provides access to key physical and functional characteristics of a project, which creates a work environment that improves all aspects of collaboration on a project to achieve success.

South Cove Manor: The Reality of BIM Collaboration with IFC Data Exchange – See how a successful IFC-based collaborative workflow handled multiple CAD and BIM software applications during the design, constructability investigation, contract document and cost estimation phase of this \$22 million, 86,700 sq-ft long-term care facility.

How BIM has changed Managing a Project Team – Just how will BIM change your approach to managing a project? Get an answer to that question and others regarding project schedules, man-hours, deliverables, skill-sets, and training – as well as experience the differences between traditional CAD and BIM workflows.

Integrating Green Building Analysis into BIM – This seminar showcases a panel of local users and how they adopted BIM technology in order to analyze their projects for the purpose of sustainable design.

Sustainable Solutions with BIM – After attending this session, you’ll understand how to make sustainable design decisions in the early design phase by making use of GRAPHISOFT EcoDesigner. This quick and reliable energy performance evaluation tool provides feedback on the building's energy performance right from the start, which leads to better decisions on how to conform to regulations and satisfy the interests of both the client and the building’s operator.

[Registration for EcoBuild 2012 is now open](#). Visit <http://www.aecocobuild.com/registration> and enter Priority Code SPK12 to receive a free tech user session; discounts on passport packages, and free expo hall admission.

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IMAGINiT Technologies' BIM Experts Speak at Conferences Across North America

17 October 2012

Rand Worldwide today announced experts from its [IMAGINiT Technologies](#) division are speaking at leading Building Information Modeling (BIM) conferences across Canada and the United States.

“IMAGINiT’s team, of more than 100 technical experts includes licensed architects, professional engineers and experienced programmers, is unrivalled in the industry,” says Bob Heeg, executive vice president, IMAGINiT worldwide operations, IMAGINiT Technologies. “Combine their education with industry experience earned from hundreds of successful BIM implementations and it’s no surprise that our experts are sought after as speakers for conferences across North America and beyond.”

When it comes to BIM, the real value IMAGINiT provides organizations starts before the software is purchased and extends well past the implementation phase. Business-savvy IMAGINiT experts help clients maximize their investment in BIM by teaching teams how to collaborate more effectively, increase efficiencies by optimizing related business processes and even introduce new business partners who can help offer additional value.

This fall, IMAGINiT experts are speaking at conferences across Canada and the United States on varying aspects of BIM.

Speakers and topics include:

John Jansen, an IMAGINiT Building Solutions Team Manager, will be speaking at ***BuildEx*** in Calgary, Alberta this fall. Attendees of John Jansen’s BuildEx presentation will learn about the benefits of BIM as it relates to facilities management, fabrication, 4D phasing, lighting analysis, scanning, model manipulation, multi-discipline co-ordination and more. John will explain how to ensure that the quality of information within the model is valuable when extracted, analyzed or queried.

Ken Flanigan, a LEED AP and IMAGINiT Solutions Consultant, will be speaking at ***Sustainabuild*** in Vancouver, British Columbia in November. With a session titled ‘It Ain’t Easy Being Green,’ Ken will show attendees how to efficiently and effectively embed sustainability information into a Building Information Model, evaluate and optimize the design, and generate reports of the data stored within the model. He will also review interoperability between different sustainability analysis tools and how they can be an integral part of the BIM environment.

Vincent Cadoret, an IMAGINiT Senior Applications Expert, will be speaking at the ***American Concrete Institute (ACI) Convention*** in Toronto, Ontario in October. He will review what BIM is, how BIM changes the workflow and even the internal culture of both design and construction firms. He will uncover how organizations can maximize their BIM related software investment by ensuring a successful implementation across the entire organization and with external partners.

Scott Burke, an IMAGINiT Technical Team Manager, will be speaking at *Architecture Boston* in November on BIM for Subcontractors. Scott's session will focus on: how data moves from one organization to another within a model-based environment; coordination methods on BIM projects, and; how a subcontractor can use BIM to help with their portion of the project.

Other conferences that have highlighted IMAGINiT Technologies' experts include the BIM Forum in Vancouver and the ACEC Virginia Engineer's Conference in Williamsburg, Virginia. IMAGINiT experts also freely share their knowledge in webcasts such as Accelerate Your BIM, virtual conferences such as BIM Spectrum and YouTube videos including ['BIM: Key Benefits for Contractors and Sub-Contractors.'](#)

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Open Solutions for Automatic 5-Axis Implant Prosthetic Machining –VIP Seminar in Shanghai, during Dentech

15 October 2012

Sescoi, the developer of WorkNC Dental automatic CAD/CAM software, with its partners, Imetric®, DentalWings®, DATRON® and Willemin Macodel®, will be holding an invitation-only VIP seminar & cocktail on the afternoon of 25th October at the Grand Hyatt Hotel, Shanghai, to coincide with the Dentech industry show.

WorkNC Dental CAD/CAM software engineers and partners will demonstrate a highly automated process for the milling of implant prostheses on 5-axis milling machines which gives users complete control of the solution.

Scanners and dental CAD software provide smart solutions for designing implant parts, custom abutments, bars and bridges. WorkNC Dental is fully compatible with all dental CAD software, directly capturing and using implant positioning data.

Imetric and DentalWings will be present at the Shanghai event to demonstrate their scanners and CAD software solutions.

Sescoi has certified a number of 5-axis milling machines to guarantee the precision required for the creation of implant prostheses for custom abutments with non-rotational connectors, as well as bridges or bars with connectors on rotational implants. A library of implant connector milling templates is available and can be used directly for milling on partner milling machines.

Partners, DATRON and Willemin Macodel, will talk about the advantages of their 5-axis machine tools during the seminar in the Grand Hyatt.

This will be complemented by a presentation by [SIRISCAN](#), a large French dental machining laboratory, detailing its 5-axis machining operations using WorkNC Dental Implant software and both DATRON and Willemin Macodel® 5-axis machine tools.

Dental practitioners wishing to produce their own custom abutments, implant bars and bridges can learn about the full process at the Grand Hyatt on 25th October, followed by live milling on a Willemin Macodel 508S milling center on the SESCOI booth (Hall 2 H54-55) at the Dentech show.

Those interested in attending this event should contact international@sescoi.fr before 18th October 2012 for their free invitation.

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Optitex's on Show at IFAI Expo Americas

17 October 2012

OptiTex will be exhibiting at the IFAI Expo Americas 2012. The trade event, which is planned for November 7-9, 2012 at the Boston Convention and Exhibition Center in Boston, Mass., is the largest event of its kind. Exhibits include the most innovative industrial fabrics, equipment, components, supplies and services for the industry; the event is expected to host over 5,000 international attendees.

OptiTex will be exhibiting at booth 1844; visitors will have the opportunity to discuss how their design and production process can benefit from OptiTex's solutions, and learn how clients have been able to significantly improve time-to-market, optimize order processing and reduce material costs through the use of its high-end 2D and 3D CAD/CAM, and Virtual Prototyping software.

OptiTex, with its over 20 years of experience assists companies with the production of high quality finished products in the following industries: Apparel, Automotive, Upholstery, Industrial fabrics and other various fabric products.

Additionally, OptiTex will promote the newest release of its Version 12 software. This new version boasts improved connectivity and enhanced communication with local and overseas vendors. This latest release shortens the development cycle while introducing new cutting-edge technologies such as improved advanced nesting, 3D flattening and marker features.

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Plant and Factory Design Suite on European Tour

17 October 2012

Technology and sustainability are on the agenda at industrial events throughout Europe this year. In November, CAD Schroer will exhibit at three events in 10 days, showcasing its engineering design software and renewable energy project promotion.

Engineering Summit: Germany 20-21/11/2012

This summit looks at the future and challenges of European large-scale plant design, including global engineering and procurement, provider and Owner/Operator partnerships, and overseas competition.

“To address global engineering challenges, we recently launched the PDC engineering content management environment,” explains CAD Schroer’s Sergej Schachow. “Many of our customers have internationally distributed engineering teams, and needed a solution that is easy to administrate and implement, allowing global design teams to work on the same plant project.” Another focus at the show will be the 70% software discount CAD Schroer provides for companies working on renewable energy plants, where Germany is very competitive in the biogas arena.

Pack & Move: Switzerland 20-23/11/2012

This industry event for integrated logistics and packaging solutions follows hot on the heels of the CAD Schroer’s presence at the UK’s PPMA show. At both events the focus is on large-scale factory design with MPDS4, used for pre-sales tender designs as well as detailed layouts of entire buildings, conveyors and materials handling systems in integrated 2D/3D mode.

Pollutec: France 27-30/11/2012

The international exhibition for environmental equipment, technology and services will be showcasing sustainable city solutions. CAD Schroer will be demonstrating the benefits of flexible, catalog-driven, large-scale plant design and supporting sustainable energy projects by providing MPDS4 at extremely low cost for those involved.

“It’s an exciting time,” says Gudrun Tebart, who coordinates CAD Schroer’s European events. “Having offices in each country allows us to introduce MPDS4 plant design and factory layout at industry events running simultaneously. It’s a great way to learn about our customers’ future requirements.”

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SPRING Technologies Invites French and German users to CUST 2012

16 October 2012

SPRING Technologies, vendor of dedicated NC solutions to enhance shopfloor productivity, announces [CUST 2012](#), the annual meeting of users of its NCSIMUL SOLUTIONS, to be held in **Frankfurt, Germany on November 9**, then in **Paris, France on November 20 2012**.

The agenda will include:

- **Strategy, partnerships** with CAM vendors and NC machine-tool makers, a keynote address by Gilles Battier, CEO of SPRING Technologies
- **Success stories** presented by major groups and SMEs based on their experience of the NCSIMUL SOLUTIONS portfolio
- **A market review:** state of play and trends
- **Demonstration of new features**
- **“Process and solutions” workshops:** an opportunity to share ideas and tips for getting full value from the SPRING solutions technologies.

“In the last 4 years we have created a strong user community: people who enjoy getting together once a year to share and exchange ideas and information, not only about how to use our products, but also about the processes they have deployed”, explains Gilles Battier.

“This year, we are making a **strong statement** in the international arena, and more particularly in Europe, by staging our first ever **German edition of CUST**. We are proud that each year we have had more and more people attending. We are expecting the 2012 edition to bring together a terrific cast of experts in manufacturing. This is because our customers work at the leading edge of French and German industries. The event is important for SPRING because one of our strengths is our ability to work closely with our customers.”

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Tata Technologies Hosts Autodesk PLM 360 Workshops Focusing on Business Process Value Through Cloud Solutions for Manufacturing Leaders

18 October 2012

[Tata Technologies](#), will provide holistic business insight designed to address specific corporate challenges faced by industrial, electronics, consumer product, transportation, and manufacturing clients by demonstrating applications of the latest Autodesk PLM 360 cloud computing solutions at two regional discovery workshops to be held in October and November.

At each of the upcoming discovery workshops, Tata Technologies, in collaboration with Autodesk PLM professionals, will demonstrate business process value creation to clients through the implementation of Autodesk PLM 360 cloud solutions. The discovery workshops will provide an opportunity for organizations to learn how they can transform their processes and add measurable value in these critical business functions:

- Operational Management
- Manufacturing
- Engineering
- R&D

- Quality and Compliance
- Sales and Service Management
- Supplier Management
- Maintenance and Support

Who should attend?

PLM Directors, PLM Managers, Program Managers, Directors of Quality Management, Owners and Principals, Executive-level Management, and any individual responsible for PLM or business process decision-making, will find valuable information at these events. The two Autumn Tata Technologies Autodesk PLM 360 discovery workshops are conveniently located for Midwest U.S. companies:

1. **Thursday October 25: Dayton, Ohio – The Engineers’ Club of Dayton, 8:30 a.m. – 12:30 p.m.** Breakfast and lunch provided, along with a New iPad 3 raffle.
2. **Tuesday November 6th: Novi, Michigan – Tata Technologies NA Headquarters, 10 a.m. - 2 p.m.** Lunch provided, along with a New iPad 3 raffle.

For more information, or to register for one of the Tata Technologies Autodesk PLM 360 discovery workshops, [click here](#).

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Financial News

ANSYS to Release Third Quarter 2012 Earnings

17 October 2012

ANSYS, Inc. announced today that the Company expects to release its third quarter 2012 earnings on Thursday, November 1, 2012. The Company will hold a conference call conducted by James E. Cashman III, president and chief executive officer, and Maria T. Shields, chief financial officer, at 10:30 a.m. Eastern Time to discuss third quarter 2012 results and future outlook.

CONFERENCE CALL INFORMATION:

What: ANSYS Third Quarter 2012 Earnings Conference Call

When: November 1, 2012 at 10:30 a.m. Eastern Time

Where: <http://investors.ansys.com>

The conference call dial-in numbers are (800) 860-2442 (US) or (412) 858-4600 (CAN and INT'L)

Passcode: ANSYS

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

Passcode: 10019986

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PTC to Announce Fiscal Q4 Results

11 October 2012

PTC has announced that it will release its fiscal 2012 fourth quarter results on Wednesday, October 31st after the stock market closes. Senior management will host a live webcast and conference call to review the results on Thursday, November 1st at 8:30am Eastern Time. The earnings press release and accompanying prepared remarks will be accessible prior to the conference call and webcast on the Investor Relations section of the Company's web site at www.ptc.com.

What: PTC Fiscal Q4 Conference Call and Webcast

When: Thursday, November 1st, 2012 at 8:30am (ET)

Dial-in: 1-800-857-5592 or 1-773-799-3757

Call Leader: James Heppelmann

Passcode: PTC

Webcast: www.ptc.com/for/investors.htm

Replay: The audio replay of this event will be archived for public replay until 4:00 pm (CT) on November 11th, 2012.

Dial-in: 1-800-568-0480 Passcode: 5689

To access the replay via webcast, please visit www.ptc.com/for/investors.htm.

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Implementation Investments

CDS CAD Download Solution Implemented at Heli-Tek

16 October 2012

[CDS](#) (Catalog Data Solutions) today announced that its online CAD download solution is implemented on the [Heli-Tek](#) website for Precision Screw Thread (PST) Corp.

Heli-Tek provides precision ball screw manufacturing and distribution. “We realized that product research, selection and buying had moved online and adapted our website strategy to incorporate a searchable product catalog and downloadable CAD models to save customers time as they specify products into their designs,” said Jordan Bush, Product Manager, Heli-Tek. “We selected the [CDS ModelServer](#) SaaS solution in competition with others because it’s well proven in the market and specifically designed for industrial suppliers - our customers are extremely appreciative of the user friendly interface and speed of downloads. CDS was the best provider we found and excellent to work with throughout the project.”

“CDS is delighted to support Heli-Tek with our integrated [CDS ModelServer](#) solution. Most purchasing decisions today (on average, 60 percent), are made before talking to a sales representative so industrial suppliers’ marketing and sales processes need to support and influence the way customers now work,” said John Major, CEO, CDS. “When comparing online marketing content—white papers, case studies, brochures, videos, demos, recorded webinars, reviews and CAD model downloads—only one is known to lead to a sale nearly 50 percent of the time. CAD downloads through inclusion directly in customers’ design or specification documents are clearly the most efficient and effective website visitor conversion tool available.”

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Continental Structural Plastics Selects Siemens PLM Software to Develop Automotive Advanced Composites

15 October 2012

[Siemens PLM Software](#) today announced that [Continental Structural Plastics](#) (CSP) has selected its [Fibersim™](#) portfolio of software for composites engineering to support the production launch of the Chevy Spark battery enclosure. Fibersim will also be used to design and manufacture composites for other automotive applications, such as Class A surfaces and structural components.

“The automotive industry is currently undergoing a transformation as it considers the role of advanced composites in more areas of the volume production of vehicles,” said Chris Johnston, the director of technology and processes at CSP. “A variety of materials and processes are being evaluated to determine suitability. CSP is implementing Fibersim so we can establish ourselves as a resource to the industry and as an original equipment manufacturer (OEM) partner while the various technologies are vetted. This will provide CSP with the opportunity to tailor our materials and processes to the needs of the industry.

“For instance, CSP is developing prepreg compression molding technology to support advanced composite structures. The ability to accurately predict fiber orientation is critical to predicting the performance of these structures, and the ability to predict drape is critical to our manufacturing process. Fibersim enables us to do just that and, as a result, supports our advancement of new product and manufacturing technologies based on continuous fiber formats.”

Fibersim will allow CSP to make timely, informed decisions to facilitate the engineering, analysis and

design of advanced composites structures and to support the manufacturing process, which extends from developing laminate structures to generating flat patterns and documentation.

“CSP is an innovative company that is taking a leadership role in developing composite structures for the automotive industry,” said Ed Bernardon, vice president of Strategic Automotive Initiatives for the Specialized Engineering Software business segment of Siemens PLM Software. “We are confident that Fibersim will enable them to master the new materials and technologies that the industry is adopting and make decisions that lead to superior products so it can meet its goal of becoming a key player in this emerging area.”

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CRH Chooses Tekla BIM Software after Thorough Evaluation

16 October 2012

CRH Structural Concrete Europe and Tekla have entered into a long-term strategic partnership: CRH chose Tekla [building information modeling software](#) to boost the productivity of their workflow.

CRH has factories throughout Europe. The company is a special player in structural concrete business: they not only produce building materials and supplies but also ensure the design and engineering process. Before choosing Tekla with support service by Construsoft, CRH evaluated the software products on the European market.

“CRH’s decision to move on to modeling is a major strategic choice which paves way for the European precast concrete industry. Tekla’s continuous work gets its reward now, and we do expect our partnership with CRH to strengthen our significance in the market. We now look forward to developing an even stronger product,” says Risto Rätty, the Executive Vice President of Tekla.

One of the advantages of the Tekla software is its capability to increase the construction workflow productivity. For example, it helps fabricators to deliver all types of precast concrete elements at the right time to the right place in the most efficient way. Also, the software integrates design and detailing with manufacturing and project management.

Tekla’s Open BIM approach made CRH’s decision easier

Tekla interfaces with production management systems (ERP) and automation machinery software and communicates with other applications. The software includes an open Application Programming Interface (API) which lets users to develop plug-in applications on Tekla platform and integrate these into their own environment.

For CRH, this was a major advantage over other software providers.

-"We are currently starting up our own expertise center where we will develop our own specific working methodology. The implementation of Tekla software in our factories throughout Europe will take place

in phases,” says David Dupont, European CAD Software Manager at CRH.

As Tekla supports [Open BIM™](#), the software enables collaboration as it can be integrated with various applications. In addition, the users can freely choose the other applications they wish to use. Precast concrete fabricators can communicate with contractors and coordinate their production with site operations with Tekla BIMsight, which is a free tool for construction collaboration.

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KESZ Hungary Extends Partnership with AVEVA Bocad-3D

15 October 2012

AVEVA announced today that KESZ Hungary has selected AVEVA Bocad-3D for full fabrication detailed design. AVEVA Bocad-3D enables a high level of automation and provides substantial time saving. The deliverables produced are highly accurate and can reduce human error and rework.

'AVEVA Bocad-3D is one of the most advanced structural steelwork design software products available on the European market', said Ferenc Schell of KESZ Hungary. 'We wanted a fresh up-to-date approach in our fabrication software. We plan to completely replace our existing StruCAD programs with AVEVA Bocad software. With AVEVA Bocad-3D we have reduced the need for extensive customisation. Challenging buildings can be designed and engineered with greater efficiency and accuracy. AVEVA Bocad-3D is by far the strongest contender for steel fabrication in the market and we will use it on all of our brand new projects going forward.'

'AVEVA Bocad-3D can manage the entire engineering design right through to full fabrication and production' said Helmut Schuller, Senior Vice President - Central and North EMEA, AVEVA. 'Other AVEVA Bocad construction and steel detailing software has already been implemented by the KESZ Group. They will continue to benefit from high-quality fabrication on projects where being on time and budget are business critical. AVEVA Bocad-3D is a proven, out-of-the-box application with an unrivalled track record on the most advanced structural design projects.'

AVEVA Bocad-3D is a software solution for structural design and fabrication, serving EPC and fabrication companies in all steelwork industries. Used with AVEVA PDMS, it can enable consistently rapid, high-quality fabrication and construction of all parts of a plant, ensuring projects are delivered on-time and on-budget. AVEVA Bocad-3D can deliver value as a stand-alone steelwork solution or as part of an integrated AVEVA Plant deployment.

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Mazda Uses MATLAB and Simulink to Speed Engine Development of SKYACTIV TECHNOLOGY

17 October 2012

[MathWorks](#) today announced that [Mazda](#) used [MATLAB](#), [Simulink](#), and [Model-Based Calibration Toolbox](#) to help speed engine development of [SKYACTIV TECHNOLOGY](#). As a result, Mazda was able to optimize the efficiency of SKYACTIV engines while meeting strict emissions standards worldwide.

SKYACTIV engines incorporate hardware advances that deliver more torque and improve fuel economy. Model-Based Calibration Toolbox helped Mazda take advantage of these advances by extracting better fuel efficiency and lowering exhaust emissions further than would have possible with manual, spreadsheet-based calibration approaches. Mazda achieved these gains through the design of optimal test plans and optimization methods, which minimized engine calibration workload and test cell usage.

“Finding an optimal calibration setting in a search space of five or more dimensions is difficult even for experienced calibration engineers, so we could never be certain that we had found the best possible settings,” said Shingo Harada, assistant manager, Mazda. “Model-Based Calibration Toolbox not only enabled us to identify optimal calibration settings for the SKYACTIV-D engine, it greatly reduced the engineering effort required. The models it generated accelerated control logic development, provided valuable insights, and made it easy to try new ideas.”

Mazda engineers used Simulink and Model-Based Calibration Toolbox to accelerate the generation and development of optimal calibration settings, ECU-embeddable models, and engine models for hardware-in-the-loop simulation. This design approach cut embedded model complexity in half and also improved embedded model accuracy by 80%.

“Engine calibration is critical to achieving an optimal tradeoff among emission, fuel economy, and performance. With increasing control complexity and new engine hardware, calibration development has become a key challenge,” said Jon Friedman, automotive industry marketing manager, MathWorks. “Mazda shows it’s possible to meet these often conflicting requirements by taking full advantage of the engine hardware investment, while reducing calibration workload.”

SKYACTIV-D engines meet stringent European and Japanese emission standards and are installed in production vehicles starting with model year 2012, including the Mazda CX-5.

For more details on Mazda’s use of Simulink, see the user story, “[Mazda Speeds Next-Generation Engine Development of SKYACTIV TECHNOLOGY](#).”

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Mentor Graphics Provides Design, Verification, Thermal and Test Solutions for TSMC's CoWoS Reference Flow

15 October 2012

Mentor Graphics Corp. today announced IC physical design, verification, thermal analysis and test design tools that have been selected for TSMC's new CoWoS™ (Chip on Wafer on Substrate) Reference Flow.

The TSMC CoWoS Reference Flow addresses 3D IC multi-die integration challenges including management of placement and routing of micro-bumps, probe-pads, through-silicon-vias (TSVs), and C4 bumps, accurate extraction and signal integrity analysis of high-speed interconnects between dies, thermal analysis from chip to package to system, and integrated 3D testing methodology for die-level and stacking-level tests. The CoWoS Reference Flow enables a smooth transition from 2D IC to stacking design with minimal changes to existing design methodology.

Both the Olympus-SoC™ place and route system for digital designs and the Pyxis™ IC Station custom layout product provide support for CoWoS design implementation. The Olympus-SoC product supports probe pad routing including micro bump and C4 bump routing, routing between combo bumps, and combo bump stream out in DEF and GDS formats. Inter-die design rule checks (DRC) and layout versus schematic (LVS) checks are performed during layout construction to help ensure rapid signoff.

The Pyxis IC Station custom layout product provides redistribution layer (RDL) routing and ground plane generation with the ability to do 45 degree angle routes to vias, and specific enhancements for the TSMC flow include improvements to the bump file import process.

The Calibre® 3DSTACK signoff solution maintains standard DRC, LVS, and parasitic extraction (PEX) verification, and introduces new capabilities to verify physical offset, rotation, and scaling at the die interfaces. It also enables connectivity tracing and extraction of interface parasitic elements needed for multi-die performance simulation. The Calibre solution creates minimal disruption to existing verification flows while supporting flexible stacking configurations of multiple die, including die based on different technologies or process nodes.

CoWoS technology brings active die significantly closer to each other than previous packaging approaches, resulting in strong die-die thermal interactions that need to be understood and managed. To address this need, Mentor has created an innovative integration between the Calibre platform and the FloTHERM® 3D computational fluid dynamics software, which can be used with TSMC's Thermal Management Kit to model temperature variation across the CoWoS design.

The Tessent® solution enables 3D IC testing. It helps ensure a lower escape rate of defective die at wafer test to achieve post-packaging yield, and provides a 3D test infrastructure for delivering tests to any die within the stack, as well as for testing TSV interconnects between stacked die. Key features for 3D IC include:

- Pre-bond testing of TSVs and IOs using contactless wrap
- Retargeting of embedded compression scan patterns and built-in self-test (BIST) created at the die level to any die in the stack using DFT access infrastructure
- Test generation for shorts or opens between logic die
- Test generation for shorts or opens between DRAM and logic die using the memory die's JEDEC interface
- Enhanced memory BIST for thorough testing of vendor independent stacked DRAM die

“Mentor Graphics and TSMC are continuing to collaborate to provide the market with an optimum combination of flexibility, ease-of-use, and interoperability that will help make the adoption of 3D IC design techniques successful,” said Joseph Sawicki, vice president and general manager of the Design to Silicon division at Mentor Graphics. “We believe that a comprehensive solution that creates minimal disruption to existing flows provides the highest value for our mutual customers.”

“TSMC is extending its 3D IC capabilities to provide designers with more technology choices as they develop new products,” said Suk Lee, TSMC senior director, Design Infrastructure Marketing Division. “CoWoS provides a straightforward way to achieve reduced footprint and power for multi-die systems using different nodes or process types, while minimizing complexity and design cycle time. Mentor is providing various elements to the TSMC flow including design cockpits for both digital and custom designers looking to use TSMC's CoWoS offering.”

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ZWCAD - The Perfect CAD Solution for the IKK Group of Companies

15 October 2012

ZWSOFT, a supplier of [CAD](#) solutions to the AEC and MCAD industries, announced today, together with its partner 'CAD Saudi', that ZWCAD was adopted in all departments of the IKK Group of Companies.

[The IKK Group](#) is a diversified Group of Companies based in Saudi Arabia, which focuses on the contracting and construction, manufacturing services, and telecommunications amongst several other domains.

Known for their professionalism and commitment to a high standard of excellence, the IKK Group needed a high performance program that meets their standards for an optimum performance of tasks in an excellent way.

The Group's main target was choosing a [CAD solution](#) that offers an efficient technical support, a

flexible licensing, product training for staff, and a competitive pricing. This is where CAD Saudi, the authorized ZWCAD reseller in Saudi Arabia, played a crucial role as its highly qualified staff held testing meetings and workshops for the IKK Group, in order to reflect how ZWCAD can meet the Group's high standards' demands.

All necessary features and functions that allow tasks to be completed on time and with the highest desired quality were included; one of ZWCAD Pro is DWG file format compatible, which suits the need of the IKK Group as it allows files to be easily shared with clients. The large choice of drafting and detailing tools, as well as the full range of functions that allows designers to create 2D drawings and 3D models.

The flexible licensing offered by ZWSOFT was a major plus for the IKK Group; it allows them to choose between the various types of licenses, including standalone or network and a range of types, so they reach the right solution for the Group Companies' needs.

CAD Saudi gives priority to customers' satisfaction, giving consideration to the IKK Group's needs, proposing thus an in-depth follow-up and product knowledge transmission to the would-be ZWCAD users of the Group. This proved that CAD Saudi is worth the trust as it goes above and beyond to support, providing a value added service.

[ZWCAD Pro](#) was implemented, and its outcome was a positive feedback from the IKK Group, resulting in purchasing an additional 100 licenses to the first purchased 100 ones. This step confirmed ZWCAD's choice as the perfect CAD solution for the IKK Group.

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Product News

AVEVA Launches Major New Products at the AVEVA World Summit

18 October 2012

AVEVA today announced the outstanding success of its first global AVEVA World Summit, held in Paris 10-12 October. Over 350 AVEVA customer and partner delegates attended from 38 countries and gave an enthusiastic reception to the announcement and demonstration of [AVEVA Everything3D](#) (AVEVA E3D) and [AVEVA Enterprise Resource Management](#) (AVEVA ERM).

“The summit theme this year was ‘Defining the Future’, said Richard Longdon, CEO, AVEVA. “The new AVEVA E3D and AVEVA ERM represent major new initiatives for AVEVA and demonstrate our continuing commitment to increasing our customers’ business performance and further extending AVEVA’s technology leadership. The Summit also gave us the opportunity to introduce our customers to other new projects which exploit mobile and cloud computing technology.

“This is a big year for AVEVA and the Summit was a great way to celebrate our first 45 years of sustained growth with the people who helped to make AVEVA so successful – our customers. We intend to repeat this successful global event format next year and I look forward to seeing everyone again at the AVEVA World Summit in 2013.”

The Keynote speakers for the 2012 event were Shell and Microsoft. Shell shared their 25-year history with AVEVA and described the very impressive evolution of the deep-water offshore oil & gas industry in the Gulf of Mexico. Microsoft focused on its technology relationship with AVEVA and the development of solutions based on cloud, mobile and connected devices.

The Summit included high-quality customer presentations and project case studies on a wide range of subjects from companies including Jacobs, Samsung Heavy Industries, AMEC, Worley Parsons, Petrofac, Guangxin Shipbuilding, Lockheed Martin and Technip. AVEVA executives presented new technologies, roadmaps and product updates, including those resulting from the recent acquisition of bocad.

Visit www.avevaworld.com to learn more.

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AVEVA Launches New Tool to Illustrate Electrical Engineering Cost Savings

17 October 2012

AVEVA today announced the launch of the AVEVA Electrical Business Value Calculator (BVC), an interactive tool that illustrates the savings that can be achieved by adopting its latest electrical engineering software technology.

'In testing with our customers we have been able to demonstrate that our recently released AVEVA Electrical software can offer man-hour savings in design and engineering time,' said Bruce Douglas, Senior VP Marketing & Product Strategy, AVEVA. 'We have had extremely positive feedback from people using the software on a daily basis and the results have exceeded our expectations. The BVC enables engineers to see how and where the deployment of this latest generation software technology can greatly improve design efficiency. It helps to quantify the potential bottom-line cost savings that AVEVA Electrical can realise for their business.'

'AVEVA Electrical has proved to be a key application within our engineering software,' said David Vernier, Africa Regional Director, Cegelec Cameroon. 'It is easy to configure and quick to deploy with minimal downtime, allowing our designers and engineers to start work immediately. The database is intuitive to populate, enabling the quick production of deliverables. Overall it is easily navigable, allowing for efficient data accuracy, leading to our achieving man-hour savings of 30% on all of our electrical engineering design.'

Based on actual working practices and feedback from users, the BVC illustrates the savings that a business could achieve on a typical project by implementing AVEVA Electrical. Using simple parameters such as head count, hourly costs and the typical man-hours involved on a number of deliverables, the BVC enables users to input their own figures in order to calculate realistic time and cost savings that could be achieved in design and engineering in their particular business.

The BVC highlights the major time and costs savings benefits of AVEVA Electrical such as increased productivity, enhanced project quality and improved materials usage.

AVEVA Electrical uses the same systems approach as [AVEVA Instrumentation](#). The applications can be used independently but even greater cost benefits are realised when they are used in combination through improved interdisciplinary coordination.

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Berkeley Design Automation Analog FastSPICE™ Platform Incorporated in TSMC 20nm Custom Design Reference Flow

16 October 2012

Berkeley Design Automation, Inc. announced that TSMC has incorporated the Analog FastSPICE Platform in its Custom Design Reference Flow for 20nm Device Noise Analysis and Circuit-Specific Process Corners. The TSMC Custom Design Reference Flow offers an advanced multi-EDA custom design flow to manage the growing complexity of process effects as well as design complexity in 20nm process nodes.

About Analog FastSPICE Platform

The Berkeley Design Automation Analog FastSPICE Platform is a unified nanometer circuit verification platform for analog, mixed-signal, RF, and custom design. It delivers nanometer SPICE accurate results with full-spectrum device noise analysis for circuit characterization and 10M-element capacity and mixed-signal simulation for large circuits.

“The inclusion of the Analog FastSPICE Platform in the 20nm Custom Design Reference Flow is the result of several years of collaboration between TSMC and Berkeley Design Automation,” said Ravi Subramanian, president and CEO of Berkeley Design Automation. “Design teams face tremendous verification challenges in nanometer custom, analog, RF, and mixed-signal designs. Our continuing work with TSMC enables our joint customers to benefit from significant improvements in device noise analysis and circuit performance characterization technologies for custom circuits.”

“Designers using the Custom Design Reference Flow will benefit from differentiated capabilities the Analog FastSPICE Platform delivers for nanometer device noise analysis and circuit-specific process

corners,” said Suk Lee, TSMC Senior Director, Design Infrastructure Marketing Division.

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BETA CAE Systems S.A. Announces the Release of μ ETA v6.8.2

11 October 2012

Supported platforms

μ ETA v6.8.x is available on MS-Windows, Linux and Mac OS only. The support of the UNIX platforms: HP-UX, IBM-AIX and SUN-Solaris is discontinued. The support of Windows 2000 SP3 is also discontinued and Windows XP SP1 is the earliest MS-Windows supported version. For details, please reference the link below

New features introduced

- Improved graphics performance working with models of a large number of Pids
- New read options for element centroid calculations
- Significant improvement in reading eigenvectors as field results from Nastran *.op2 files
- Reading and displaying of Nastran SOL600 contact results as vector results
- Reading of RMS Von Mises results from Abaqus *.odb files
- Reading of element forces and moments as vector results from Pamcrash *.DSY files
- Reading of universal dataset 58 files with uneven spacing
- Reading of FEMZIP-N version 1.3.3 and FEMZIP-L and -P version 5.99 files
- Plotting of local X-, Y-, Z- and Magnitude nodal displacements from Pamcrash *.THP files
- Plotting of resultant moments of solid spotwelds from LS-Dyna swforc files
- Improved speed of Linear Combination calculations for large result files
- A new toolbar named Topometry Optimization for calculating the relative thickness that can be output to ANSA
- The SOL103 Report toolbar has been renamed to Eigenmodes Report and now also supports Abaqus results
- The Identify Global-Local Modes toolbar now also supports Abaqus results
- ... and more

Known issues resolved

- Abaqus 6.12-x *.odb files could not be read with the SIMULIA-sourced libraries, however, no issues have been noticed with the libraries distributed with μ ETA
- The available STEPs from certain Abaqus *.odb files would not be displayed in the correct order
- The Alpha field of Nastran RBE cards would not be read correctly

- The calculation of the Reserve Factor: Azzi-Tsai-Hill criterion was not correct
- Reading Sets hierarchy from a LS-Dyna *.xml file would cause META to crash
- Geometry from certain FEMZIP-N files would not be read
- Permas pyramid elements would not be displayed correctly
- Various issues of the 2D Plot tool
- ... and more

Compatibility

μETA v6.8.2 can only run with beta_lm_tools v6.0 or later. The latest beta_lm_tools version is v6.3. The .metadb files saved by the later versions of μETA are compatible and can be opened by earlier versions of μETA.

To view an unabridged version of this press release, visit: http://www.beta-cae.gr/news/20121011_announcement_meta_v6.8.2.htm

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Bricsys Announces Immediate Availability of BricsCAD V13

15 October 2012

Bricsys, a provider of dwg engineering design software brought to market under the BricsCAD® brand, has announced the immediate availability of BricsCAD V13 for the Windows® operating system.

This release further extends the BricsCAD software with new 2D features and with assembly modeling for the mechanical CAD market. This functionality will also be externalized through APIs to support the BricsCAD partner community in the development of new value-added solutions.

“With BricsCAD we provide our customers with a single dwg-based CAD platform to take care of all their design needs from simple 2D drafting to advanced 3D direct modeling. No need to buy and learn new or companion products, no need for time consuming conversions ... just one unified CAD solution,” said Erik De Keyser, Bricsys CEO. “Under today’s tough economic circumstances enterprises want to streamline their software purchases and are looking for vendors to deliver solid functionality and quality support at compelling prices, and that’s exactly where we excel.”

New functionality in BricsCAD V13 includes:

- Assembly Modeling to model complex products, building on the 3D direct modeling and constraints functionality of V12:
 - Organization of .dwg files in hierarchical structures of mechanical components
 - Top-level or bottom-level components used in the drawing are automatically generated

- and updated in the Bill of Materials (BOM)
- Assembly Constraints allow for the addition of 3D constraints between faces and edges of different mechanical components
- Kinematic Analysis allows for moving or rotating parts of a model to solve real-time forward and inverse kinematic problems
- A series of new commands, functions, dialogs and features for improved 2D drafting, including sheet set manager, array dialog, several printing extensions including background printing, autocomplete for the command line, support for multi-lines including snapping and grip-editing, the worksets command for working with named groups of drawings, and the use of expressions to define 2D constraint dimensions
- The Powerdimensions module to add extra functionality for dimensioning 2D Mechanical CAD drawings
- Support for multithreaded display generation, an important step forward for actual as well as future performance improvements

Third Party Solutions

BricsCAD is not only CAD software but also a full-fledged CAD development platform, which application developers can use to create value-added solutions. A worldwide network of more than 700 Application Developers is using the standard APIs of the BricsCAD platform (LISP, DCL, VBA/COM, .NET, BRX) to develop value-added solutions targeted at specific industries or disciplines. Several hundred of these solutions across some twenty categories are now available through the Store on the Bricsys website, with many more to be added over the coming months.

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Collaboration Extends Machine Simulation for GibbsCAM Users with NCSIMUL

16 October 2012

Cimatron Limited announced today the release of the SPRING Technologies NCSIMUL Plug-in for [GibbsCAM](#)®. The plug-in is a collaborative effort of Gibbs and Associates, developer of the [GibbsCAM](#)® software for programming CNC machine tools, and [SPRING Technologies](#), developer of NCSIMUL, a major standard for NC program simulation and feed rate optimization. The plug-in provides GibbsCAM users direct access to the NCSIMUL application, which assists programmers with NC program analysis and verification, and provides machine-tool simulation with error and gouge detection. After NC programs are corrected of errors and gouging, and fully verified, NCSIMUL provides options to optimize program parameters to improve toolpath cycle time and cutting tool efficiency. The NCSIMUL plug-in is supported by SPRING Technologies, and is immediately available, worldwide, from SPRING Technologies and its resellers.

While the standard GibbsCAM machine tool simulation works from the GibbsCAM program data before postprocessing, and uses machine-tool models created by the user, NCSIMUL uses the machine-ready, postprocessed NC program, (G-code/ISO code), enabling simulation and analysis one step closer

to actual machining. It also provides an extensive library of kinematic models of lathes, turning centers, machining centers and multi-task machines, saving users the time required to create precise models of their own machine tools.

"We are pleased with our new association with SPRING Technologies, and the development of this plug-in for GibbsCAM," said Robb Weinstein, Senior Vice President of Sales and Strategic Planning of Gibbs and Associates. "For many years, our approach to complementary technology that improves customer productivity has been adoption, not reinvention, so the integration of NCSIMUL with GibbsCAM is exciting, as it can help our customers improve cycle times, tool life and surface finish with analysis and optimization at the last step before machining."

"With this integration, we hope to help GibbsCAM users achieve higher productivity through the toolpath analysis, verification, simulation and optimization NCSIMUL provides," said Olivier Bellaton, General Manager of SPRING Technologies. "For them, the NCSIMUL Plug-in enables direct access to our machine-tool library, and all the functions designed to improve the accuracy and efficiency of the machining process."

For the GibbsCAM user, the NCSIMUL plug-in is more powerful than as a stand-alone application for two reasons. First, for ease of use and user productivity, GibbsCAM is a fully integrated application that never requires the user to leave the GibbsCAM environment to complete programming operations. To maintain this integrity, the plug-in is accessed and activated from the GibbsCAM menu bar. Second, as a plug-in, NCSIMUL imports GibbsCAM solid models of part, stock, fixtures and other workholding devices, plus tooling parameters, to develop the 3D tools required for full and accurate simulation.

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CyDesign Labs, INC. Announces Preview Release of Model-based Design Optimization Platform

2 October 2012

CyDesign Labs, Inc., the developer of the CyDesign Studio platform for model-based design optimization, announced the preview release of the platform at the CIMData PLM Road Map 2012 in Plymouth, Michigan. CyDesign Labs offers a comprehensive, cloudbase platform to optimize and streamline activities around requirements management, model libraries, simulation, verification and certification during the conceptual design phase of complex cyber-electromechanical systems.

“Designs of complex systems are often decoupled from the original requirements, resulting in products that do not meet customer needs. Redesign efforts to resolve such problems increase development costs and time to market,” said CyDesign Founder and CEO Serdar Uckun. “We developed CyDesign Studio to provide a tight coupling between requirements management and product designs, which minimize costly redesigns and ensures that the final product satisfies customer needs.”

Ground-Breaking Innovations for Conceptual Design

CyDesign’s platform dramatically reduces design-build-test cycles with a seamless workflow to drive continuous, dynamic feedback and to arrive at the best designs:

- Requirements management fully-integrated with system modeling
- High-performance modeling and simulation engine: CyModelica™
- Thorough exploration of the design trade space
- Early verification and certification
- Integration paths to FEA, CAD, CAE and other technologies
- No software installation or configuration
- Usage-based pricing and a 100% web environment

“The CyDesign usage-based model is simple, scalable and attractive – no software licenses, no downloads, no systems integrators and no charge for entry-level users,” said Vice President of Business Development Tom Stegmann. “This shift to democratizing conceptual design tools means even the smallest shop can get value and the largest teams can share results for better collaboration without major investment.”

The CyDesign platform is deployed 100% on the web, leveraging virtually unlimited cloud-based computational resources for faster simulation results and unparalleled scalability. The CyDesign platform will be commercially available in 2013.

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Gehry Technologies Announces Availability of GTeam

16 October 2012

Gehry Technologies (GT) announced the general availability of [GTeam](#)™, a cloud-based 2D and 3D file management and project collaboration platform purpose-built for AEC professionals and building owners. Frank Gehry, founder of Gehry Partners, LLP and co-founder of Gehry Technologies, was joined by architects including Greg Lynn, Greg Lynn FORM; Moshe Safdie, Safdie Architects; David Childs, Chairman Emeritus at Skidmore, Owings, and Merrill; and Patrik Schumacher, Zaha Hadid

CIMdata PLM Industry Summary

Architects at today's unveiling, capping a meeting of the [strategic alliance](#) formed last year by Gehry to transform the building industry through technology.

“30% of every building project is waste – wasted materials, energy and labor,” said Gehry. “This has an enormous impact on the environment, on clients’ budgets and on the built environment. The tool that we are introducing today – GTeam – has been developed to eliminate this waste by enabling better collaboration, communication and coordination. The focus is on making accurate building information quickly and easily accessible to high level decision makers on the projects. I have used technology-driven processes for managing cost, schedule and performance while delivering our clients the highest quality buildings over the years, and I am very excited that this technology can now be offered to other firms seeking to create more effective industry practices and a better built environment.” Gehry and his team used the technology and processes now resident in GTeam to deliver structures such as 8 Spruce Street in New York City and the [Fondation Louis Vuitton Museum](#) now under construction in Paris. In addition, GTeam will be the collaboration platform used to manage the new [Facebook](#) campus project that will eventually house 2,800 engineers.

Over the past six months hundreds of other companies including COOP HIMMELB(L)AU, Greg Lynn FORM, HOK, OLIN, Safdie Architects, The Pike Company, UNStudio, and Zahner have been using GTeam in a private offering followed by a free technology preview. “This milestone release of GTeam is based on our decades of managing data and collaboration on real projects, our domain expertise in the application of technology, and the feedback of our initial GTeam customers,” says Dayne Myers, CEO of Gehry Technologies. “The result is an open platform that helps building teams collaborate and share project data and 2D/3D design information, regardless of the BIM or CAD software tools they are using.”

GTeam provides on-demand access to project data from desktop or mobile devices and offers a centralized, detailed view into project events and history with a user experience akin to widely-used social media platforms. Teams can visually manage any kind of data, including 2D drawings, 3D models, PDF files and other documents, spreadsheets, schedules, and pictures. “By supporting all the links in the building chain and giving them an easy, intuitive tool for sharing model-based project information, GTeam enhances workflows and improves communication from design through to fabrication and assembly,” says Greg Lynn, Founder of Greg Lynn FORM.

GTeam enables project teams—including architects, designers, engineers, contractors, consultants and building owners—to reach consensus faster, reduce change orders, save time, get more work and reduce project costs. “Our office works on projects world-wide, which requires an efficient distributed design and information management process,” said Cristiano Ceccato, Associate at Zaha Hadid Architects. “By using GTeam, we have streamlined our workflow for sharing 3D models with clients and consultants, ensuring that every member of a project team is effectively ‘on the same page.’ GTeam helps the entire team better understand a project’s status, and is enhancing the effectiveness by which decisions can be made and progress monitored. In our increasingly globalized industry, an enhanced collaborative environment is key to competitiveness – GTeam is an excellent solution for our needs.”

CIMdata PLM Industry Summary

Owners, companies with property assets and building firms of all sizes are also using GTeam as a centralized [BIM](#) data storage platform to easily identify, consolidate, and organize as-built documents of their existing and future buildings, and to make BIM data more accessible for operations & maintenance. GTeam gives structure to project data and is very easy to use, even for non-technical users. In addition, GTeam is the perfect solution to host and centralize data kept on company intranets, FTP servers and within multiple office locations.

Key features of GTeam include powerful support for 3D model viewing from any web browser on any device and the ability to collaborate with anyone by importing models from industry-standard authoring tools such as Digital Project, Revit, AutoCAD, Rhino and SketchUp. New features added based on the feedback of initial GTeam users includes a WebGL viewer allowing for 3D viewing without a download; a more streamlined 3D translation for Revit and other file formats to increase performance; and enhancements to email invites, dashboards, comments, messaging and reporting for more streamlined, simplified project workflows.

For more information on GTeam, visit www.gteam.com.

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Internet-based Collaboration Made Easier with new Feature to the Daista uIP

4 October 2012

Daista Software has announced a new capability to its universal Integration Platform (uIP) to help collaborative partners share information across the Internet or secure networks without the need for data exchange processes.

The Daista uIP supports a fully configurable data model enabling companies to simultaneously manage data conforming to multiple data models be it international, industry or company standard as well as proprietary data models. Data conforming to different data models are held in self-contained subdivisions of the Daista uIP database, but at the same time form parts of a fully connected integrated whole. This makes it possible for companies to import data from different sources or establish connectivity with external applications without the need to any translation or data exchange processes.

With the new feature, collaborative partners using the Daista uIP can, with simple commands, establish connection between their respective “instances” of the Daista uIP and share data seamlessly. Alternatively, they can set up a “project environment” to which each project partner contributes information to form a consistent integrated whole without the need for a single process involving translations.

“Companies are increasingly in need of an effective way to share information with external stakeholders such as customers, contractors and partners, while at the same time having control on their intellectual property. There is also the need for sharing of data to be simple to implement to cater for connecting and

CIMdata PLM Industry Summary

disconnecting external stakeholders in a dynamic way.”, said Joep Mintjens, Managing Director, PLM Consultancy.

“The new collaborative capabilities by Daista provide a seamless way of supporting collaborative partners by enabling them to interactively share data within a controlled environment. With each collaborative partner having full control over their uIP environment. The intellectual property of the individual collaborative partners is also protected.”, said Dr Kais Al-Timimi, Managing Director, Daista.

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Major Developments in VISI 20 Mold and Die Software

15 October 2012

Significant CIM developments are included in the latest release of the market-leading VISI mold and die focused software.

Available from Vero Software – VISI 20 is a substantial release with many new features in all areas of the product, providing further solutions for mold, tool and die makers.

Major graphic enhancements include the ability to fast-view a file before opening, allowing pan and zoom functionality. Other enhancements incorporate improved rendering, programmable command widget and the ability to show locked elements using a different graphical representation (light wireframe and light shading).

The wide range of significant CAD enhancements introduce a new 'collaboration mode' allowing multiple users to work on the same project dataset. Other improvements include the ability to assign constraints to geometrical bodies (Concentric, Parallel, Coincident, Distance, etc) providing the tools to simulate the real movement of tooling and check for collisions. In addition, CAD translators have been updated to include support for Solid Works and Solid Edge assemblies, and support for PTC Creo and JTopen B-rep entities.

VISI 20 represents another major release with significant CAM developments. One innovation is the ability to distribute the toolpath computation onto different machines connected to the same private network. This technology uses 'Distributed computing', where the computers interact with each other to achieve a common goal. Each goal is divided into many tasks, each of which is solved by one computer connected to the network.

The main advantages are that the combination of slave computers can produce a similar computing resource to a multi-processor, super-computer and keep the master PC free from heavy calculations. A typical benchmark project for a mold cavity could easily consist of 30-40 complex toolpath operations.

CIMdata PLM Industry Summary

The ability to share the computing processes across the network is a unique advantage, producing massive time savings and vital cost savings for the end user.

New toolpath algorithms include an innovative hybrid roughing strategy, improved auto rest machining, new multi-axis flank milling and new multi-axis roughing machining. The new roughing strategy is based on hybrid machining technology that allows the system to massively reduce the rapid moments, avoid tool plunging into material, optimize stepover in excess of 50% and propagate high speed transitions and movements avoiding feed reduction while machining.

The new multi-axis flank milling is a strategy developed especially to cover all issues related to machining fluid parts for turbo-engines or aeronautical parts. The flank milling is optimized to produce the target surface with only one cut, using the whole flute length of the tool. The new multi-axis roughing is a strategy that allows the user to create 5-axis roughing toolpaths on triangle meshes using different cutting patterns.

Other CAM developments include improved collision control, a new feature recognition engine, support for additional tooling (barrel cutters, convex tip cutters, radiused chamfer cutters and radiused dove cutter) and a new 'dynamic incremental stock' (DIS) command that automatically creates the stock model from the uncut material of the previous operations -- to be used as reference for subsequent milling operations.

Wire EDM developments include the ability to auto detect undercuts. When the offset is larger than the radius of an arc, the toolpath can self-intersect. The solid simulation has been enhanced to detect these conditions where the toolpath crosses and highlight these in the movement list. The user can optionally ignore these conditions or have the simulation automatically stop when they occur. New corner relief tools allow the addition of corner relief to all internal corners and external corners independently. It is usual for a user to want to apply these separately; for example to add relief to a die-only internal corner. Finally, the technology database has been enhanced so the materials presented are filtered against the machine model as opposed to the machine family, and the available wire types are filtered against the material type. This leads to a more efficient and accurate technology selection for the user.

VISI Progress developments include a new tool building engine, improved unfolding and new middle skin functionality for flanging and blanking operations. Other enhancements include a completely rewritten explode tool, improved catalogues, and continued collaboration with CADENAS.

VISI Flow, for plastic flow analysis, has been made 64bit compatible, with improvements to sequential molding, gas assisted, and overmolding, along with new tools for conformal cooling. This thermal analysis project relies on the ability to add 3D cooling circuits, produced using rapid prototyping and previously impossible to produce using traditional drilling / boring cycles.

VISI Development Manager Marco Cafasso explains the rationale behind some of the recent developments. "When dealing with imported data we fully recognise the need to work as efficiently as

CIMdata PLM Industry Summary

possible with the data provided, and we focus a great deal of effort on improving the operator workflow. One particular instance is how we've taken the extract edge command and extended this to provide the ability to automatically concatenate polyline edges into clean curves and also break complete loops into sensible curves based on angular splitting tolerances. It is this in-depth understanding of our customer processes that makes VISI one of the leading CAD/CAM systems for the mold and die industry."

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Matereality Releases New App Suite for Product Development and Material Data Management

18 October 2012

Matereality's 6.0 Release features a redesigned user interface with a new applications suite now compatible with mobile devices. The company continues to drive innovation to allow engineers to find, understand and use traceable material data for new product development. Matereality delighted CAE analysts when it released its acclaimed CAE Modelers in 2010. They have proven to be incredible time savers for engineers, letting them perform the often-complex conversions to create CAE material cards in a predictable manner. With 6.0, a new Material Model Library app lets them catalog and store their material cards alongside their raw material data.

Release 6 encourages companies to transition to material databases that provide core value to their product engineering teams. These are dedicated databases that contain highly relevant measured properties of the actual materials used in their products. "In today's analysis-led design (ALD) environment, where major design decisions are based on the outcomes of CAE, using material data of unknown origins has long term consequences. Over the past 5 years we have seen companies invest in dedicated databases, from our vantage as the source for material data to over 800 manufacturing companies", says Hubert Lobo, who runs both DatapointLabs and Matereality.

The new interface moves away from traditional website navigation with app based software tailored to diverse user types. GridView lets users navigate their personal database, workgroup database or an entire enterprise database. Data administrators use the Manage app. Test engineers and librarians can use the Load Data app to add material data to their database. With Smart MouseOvers, the user can preview pertinent data including properties, analytics and models before diving into a dataset. The iPad-ready DataViewer enhances the user experience for visualization of complex material data with instant graphing of digital data, unit conversions and enhanced Excel connectivity. "We have engineers from over 450 product development teams using our cloud. We are excited to enable faster access to material data and software applications right at log in. This will allow a wide cross-section of users to adopt a common platform that feels like it has been designed specifically for them", says Paul Klinger, Sales Director, Matereality.

The Matereality cloud today contains over 50,000 experimental datasets on over 8,000 materials, comprising one of the largest collections of design properties in the world today. While the content is primarily intended for internal use by corporate design groups, selective sharing is possible to allow collaboration between colleagues or companies cooperating on a development program. A material

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supplier may, for example, exclusively share its privately held high strain rate tensile properties for crash simulation with an automaker's design team using Matereality. Such 'social' interaction can enable data starved design groups to have access to high-value product-relevant material data while often enabling a sale for the supplier. Free databases are also exposed, creating pathways to connect design teams to additional material data from pedigreed sources.

For more information, visit www.matereality.com, telephone 607-257-1784 or send email to info@matereality.com.

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PDF3D Enhances Tools for Enterprise Server Report Production

15 October 2012

In PDF3D® XML Server version 2.5.0, Visual Technology Services introduces all major enterprise server integration languages, additional industry standard 3D file formats, PDF template styles for enterprise server 3D PDF report automation (www.pdf3d.com). Aimed at solving 3D PDF report production for cost-effective automated enterprise server generation, virtually all operational controls are managed by standard XML. The key features of the PDF3D XML Server are:

- Provides Java, C#, Perl, Python, Ruby, Delphi, VB, PHP, C++ Language Server System Integration
- Industry Standard CAD and Scientific Formats including DXF, DWG, DWF, DGN, 3DS, and VRML
- Smaller PDFs than original CAD model, Highly compressed PRC methods
- Increased informational value by XML Annotated assemblies with 3D lead-lines, dimension arrows,
- part labels, PMI, GD&T, perspective, isometric views, scene level ruler dimensions
- Merging CAD Models from Different Formats into Common 3D View
- Animation of Complex Part Movement and Custom Presentation Controls
- Report Tables, Figures, Graphics, Images, all by simple XML specifications
- Server Configuration XML compatible with desktop PDF3DReportGen for Setup
- Choice of Windows, Linux and Mac OSX Enterprise Server Platforms

PDF3D XML Server is used for commercial technical 3D reporting work-flows in life sciences, marine, civil, environmental engineering, earth resource exploration, numerical modeling, and general scientific data visualization reporting. With vast XML tag list, PDF3D XML Server automated 3D PDF report generation enables faster decision making, lowering project costs through improved team collaboration.

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PROCAD Announces Launch of SpoolCAD Isometric Drafting Software

17 October 2012

PROCAD Software (<http://www.procad.com>), announced the release of its newest product, SpoolCAD®. The comprehensive 2D pipe isometric fabrication solution with built-in Autodesk AutoCAD® provides isometric drafting, accurate BOM and weld listing capabilities. Users require minimal CAD skills to generate high quality pipe isometric drawings and reports.

“[SpoolCAD](#), built on PROCAD’s isometric drafting software, is the direct result of PROCAD’s vision for an advanced drafting solution for pipe fabrication shops,” said Zaia Abraham, President, PROCAD Software. “SpoolCAD enhances fab shop productivity with an integrated system that offers graphically superior drawings and a high level of design accuracy. In addition to these significant benefits, SpoolCAD comes with built-in Autodesk AutoCAD®. This complete solution gives our pipe fabrication customers a single point of access for software acquisition, tech support, training and ongoing upgrades.”

In private beta since April 2012, customers have been trying out the new software. “SpoolCAD has provided Target with a comprehensive spec-driven fabrication spool drafting solution with complete BOM and weld listing functionality. SpoolCAD is more adaptable than other programs we have used for this and I believe this software would be a good fit for any pipe fabricator,” said Joe Braun, President, Target Industries.

SpoolCAD enables Pipe Fabricators, Independent Welders and Engineering Contractors (EPCs) to create detailed [piping isometric drawings](#) for process plant drafting and construction. SpoolCAD can be implemented standalone or network installation.

SpoolCAD Key Features

- Faster project start-up with a user-friendly interface and world-class customer support
- Easily create 2D piping isometric drawings with minimal CAD skills and drafting skills required
- Reduce errors with spec-driven functionality and by eliminating the need to manually edit isometric drawings
- Save and share drawings in the industry standard AutoCAD® DWG™ file format
- Reduce costs with a comprehensive set of applications that includes AutoCAD®
- Compatible with PapriCAD 2D and 2D DESIGNER
- Built on PROCAD’s best-in-class isometric drafting software

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Skyscape Cloud Services Takes EMC Documentum To The Cloud

18 October 2012

Skyscape Cloud Services Limited, has announced that it will be providing EMC Documentum to its UK

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Public Sector clients as part of its Software-as-a-Service portfolio. Other products from the EMC Information Intelligence Group will also be made available.

This agreement will allow Skyscape to supply a wide range of Cloud Services based upon EMC's extensive software portfolio to the UK Public Sector who will benefit from lower costs, reduced procurement times, a simplified tendering process, and a genuinely competitive marketplace.

Phil Dawson, CEO, Skyscape said "This unique agreement reinforces our commitment to supporting both the Government ICT Strategy and G-Cloud Strategy to offer innovative Cloud based services to the UK Public Sector. We have already seen strong demand for these Services, which is further substantiated in our UK public sector Cloud Prediction 2012 survey where we found that 52% of Public Sector organisations said that they will use SaaS first when adopting the cloud".

Mark Rattley, Regional Director, EMC Information Intelligence Group, UK & Ireland said "EMC continues to see a large growth in the amount of information that needs to be processed and stored. Skyscape's Assured Platform, Cloud centric delivery model and focus on the UK Public Sector, enables EMC clients to consume our software in innovate, lower cost manner".

Initially, a total of eight different Software-as-a-Service products will become available under this agreement, each delivered on a monthly subscription or pay as you go basis. These will be available at differing Impact Levels consistent with HMG IA Standard No.1 Business Impact Level Tables.

As part of their Cloud Alliance Agreement, Skyscape and EMC are also collaborating towards the future provision of other cloud based services.

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Teamcenter on the Cloud: Faster Time to Value, Dynamic Scalability and Lower Cost of Ownership

15 October 2012

[Siemens PLM Software](#) today announced the availability of [Teamcenter®](#) software on the cloud, adding another platform option for Teamcenter customers. Teamcenter on the cloud delivered through an Infrastructure as a Service (IaaS) model extends Siemens PLM Software's "platform of choice" strategy and demonstrates the company's commitment to deliver products based on a future-proof architecture, a key tenet of our HD-PLM vision. Teamcenter is built on an open architecture that gives customers the flexibility to use their preferred technology platform and provider.

Teamcenter on the cloud enables companies to move some, or all, of their computing infrastructure to a third-party cloud service provider versus investing in their own hardware. This gives customers cost effective access to enterprise grade IT infrastructure and resources without the need for capital expenditure. Siemens now supports Teamcenter on three of the leading cloud services, Microsoft Windows Azure, IBM SmartCloud™ Enterprise+ and Amazon Web Services. The company has completed a certification and enablement program for Teamcenter delivered on each of these service provider's IaaS offerings. The dynamic scalability of Teamcenter on the cloud provides faster time to value and a lower cost of ownership for customers.

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Teamcenter on the cloud provides fast and flexible deployment of virtual Teamcenter environments with the ability to dynamically scale infrastructure up and down based on project needs. Customers can use the service to instantly turn on infrastructure resources without significant upfront investments. Deploying Teamcenter on the cloud enables centralized application management from expert teams, freeing up customers' IT resources to focus on higher level value-added services such as supplier and partner on-boarding. This can lead to enhanced collaboration and provide faster return on investment.

"The key benefit of Teamcenter on the cloud is the business flexibility it provides," said Eric Sterling, Senior Vice President, Lifecycle Collaboration Software, Siemens PLM Software. "In today's ever changing global landscape, the flexibility to dynamically manage infrastructure on the cloud gives customers the ability to scale up computing resources with demand and more importantly, scale down costs if demand decreases. This enables organizations to effectively manage IT budgets as an operating expense versus capital expense which can improve profitability. We are thrilled to work with leading providers like Microsoft, IBM and Amazon to roll out this new platform of choice."

For more information about Teamcenter on the cloud, visit [here](#).

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The new Allplan 2013 and Allplan Exchange Offer Users a saving of up to 20 Hours per Month

16 October 2012

According to a current ArchVision study, designers spend on average 5.7 hours a week creating, sending and archiving plan data in order to share this with up to 10 project participants. Allplan Exchange - a combination of Allplan CAD and web service - draws together this time-intensive, administrative task into a single step. As a result, architects and engineers have more time for planning and design. The new CAD version Allplan 2013 also offers numerous additional functions - for example for realistic visualizations and intuitive reinforcement planning.

"With the new version and in particular with Allplan Exchange, Allplan is growing even closer to web services. Allplan 2013 is thus precisely tailored to the requirements of the AEC industry, now and in the future. During the entire construction process, we support our users even more effectively with innovative tools and unburden them from routine tasks, so that they have more time and freedom for their essential work," says Sven Larsen, CEO Nemetschek Allplan Systems GmbH.

More than two thirds work without digital plan management

Architects spend 11 percent of their working time exporting, sending and archiving plan data, and only 29 percent take advantage of the efficiency offered by a digital online platform for this. This was revealed by an ArchVision study conducted in the third quarter of 2012 among 1,200 architects in six European countries (United Kingdom, France, Spain, Italy, Germany and the Netherlands).

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86 percent of those asked send their plans via e-mail, while 29 percent send CAD plan data in traditional paper format. Another 26 percent exchange their plans via an FTP server (multiple answers were possible). This complicated procedure costs users time and is also prone to errors.

The solution: Exchange with Allplan Exchange

A system for digital plan management such as Allplan Exchange in Allplan 2013 can provide help here: With Allplan, plan attributes such as the plan index can be edited with ease. The plans generated in the CAD system can also be easily exported and sent via a web-based project platform. As a result, all those involved in the project have access to the latest plan data at all times.

Overview of the most important new Allplan 2013 features:

For architects: Realistic visualization

The realistic visualizations for professional presentations are another decisive advantage. The "Global Illumination" render method for the realistic portrayal of lighting conditions and reflections and the hidden line image with shadow for a better 3D portrayal of views are particularly worth highlighting. With the Allplan Connect palette, designers can now select previously separate online content easily and transfer it directly into their CAD plan.

For engineers: Intuitive general arrangement and reinforcement planning

Engineers benefit from intuitive general arrangement and reinforcement planning with parametric components including reinforcement and simplified reinforcement labeling. The extended "Associative Views and Sections" function also helps to improve efficiency. With the new options for collision control and color-coded reinforcement display, Allplan 2013 provides optimum support for the BIM working method. The adaptation to international standards has also been made easier, which engineering firms operating internationally will particularly appreciate.

For facility managers: Requirement-oriented adaptation of processes

Facility managers can expect even greater efficiency in Allplan Allfa 2013: For example, the new Allfa Process module contains a process modeler and an interface designer to ensure maximum adaptation of the processes to a company's own processes and requirements. Allplan Allfa can also be easily integrated in existing systems. Other new features include a bidirectional interface and a new GFX viewer

For more information on the new CAD version Allplan 2013, visit: www.nemetschek-allplan.com/2013

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Trubiquity Announces Latest Upgrade to the Award Winning TRUfusion™ Enterprise Software

15 October 2012

Trubiquity, a global provider of MFT (managed file transfer), process automation and integration

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software solutions, today announced the availability of the latest upgrades to their TRUFusion™ Enterprise software. TRUFusion™ Enterprise helps automate the product design data exchange and collaboration processes with internal teams, partners and suppliers.

The TRUFusion™ Enterprise release 7.4 now includes:

- Improved automation of new partner on-boarding to help the administrators of the software save time and reduce costs.
- A new JAVA Applet allowing for uploads of unlimited file size and a simple User Interface for enabling multiple file selection to accommodate the demands of ever increasing product design data file sizes.
- Enhanced Computer Aided Design (CAD) Product Lifecycle Management (PLM) integrations:
 - Automated discovery and processing of NX assembly structures;
 - Improved workflows for CATIA v5, NX and related dataset batch data exchanges from within Teamcenter;
 - An extended range of automated file format conversions, including CGM to PDF, CGM to DXF and AutoCAD to PDF, to help with data interoperability requirements.

These new modules and enhancements within TRUFusion™ Enterprise provide for improved usability, performance, and integration efficiency. Visit <http://www.trubiquity.com/solutions/managed-file-transfer/trufusion-enterprise/> to learn more.

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