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CIMdata News

CIMdata Publishes PLM Industry Report

30 October 2013

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces the release of the CIMdata 2013 PLM Industry report, the last of five modules of the CIMdata PLM Market Analysis Report Series. The MAR Series provides detailed information and in-depth analysis on the worldwide PLM market during 2012. It contains analyses of major trends and issues; revenues of leading PLM providers; and revenue analyses for geographical regions, industry sectors, and historical and projected data on market growth.

The CIMdata PLM Market Analysis Report Series is packaged as five modules:

1. The *CIMdata 2013 Executive PLM Market Report* provides an overview of CIMdata's complete global analysis. It includes key charts on PLM market investment statistics through 2012, forecasts of investments for 2013 through 2017, and a summary of PLM solution providers' performance in 2012.
2. The *CIMdata 2013 PLM Industry Review and Trends Report* is mainly qualitative in nature, and focuses on key issues facing the global PLM ecosystem of solution providers and end user organizations. It highlights changes that occurred in 2012, what effects those changes may have in the short and medium term, and what is on the horizon in the years to come.
3. The *CIMdata 2013 PLM Market and Solution Provider Analysis Report* details measures of and forecasts for the overall PLM market and its key segments, including Tools, cPDm, and Digital Manufacturing. The Tools section has additional details on sub-segments, including MCAD, NC, S&A, EDA, and AEC. It also includes CIMdata's estimates of PLM solution provider revenues in these segments and sub-segments for 2013 through 2017.

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4. The *CIMdata 2013 PLM Market Geographic Analysis Report* provides an additional view of the 2012 market results, by major geography. CIMdata's 2012 estimates and market forecasts for PLM and the major PLM market segments are provided for the Americas, EMEA, and Asia-Pacific. In addition, the report includes estimates and forecasts for the cPDM segment within specific European and Asia-Pacific countries and regions.
5. The *CIMdata 2013 PLM Market Industry Analysis Report* provides an industry segmentation view of the 2012 market results. CIMdata's 2012 estimates and market forecasts for Mainstream PLM and cPDM are provided for eight different industry sectors: aerospace and defense; automotive and other transportation; electronics/telecommunications; fabrication and assembly; process-packaged goods; process—petrochemical; utilities; and construction, infrastructure and shipbuilding.

“Most industrial sectors showed PLM growth in 2012,” according to Stan Przybylinski, CIMdata's Vice President of Research, “Utilities had the highest growth rate at 18.4%, admittedly on a small base. Spending in Aerospace rebounded with 13.2% growth after several down years. While 2012 was a strong year, our forecasts are lower in 2013 and over our forecast horizon to 2017. In the near term, this agrees with most projections from the PLM solution providers. It is also reflective of the challenging global economic forecasts over the next five years.”

The CIMdata PLM Market Analysis Report Series is available as a five-module set or each module can be purchased separately. It is also available as part of the CIMdata PLM Community Gold Membership. Further details and pricing information about the report and Community Memberships are available at www.cimdata.com.

About CIMdata

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

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

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CIMdata PLM Industry Summary

CIMdata Publishes “PTC Creo View”

31 October 2013

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces a new white paper examining PTC’s enterprise solution for validation and review, PTC Creo View.

Once the private domain of design and manufacturing engineers, digital data content has become an essential factor in the interactions and decision-making of a broad range of enterprise-wide product contributors. PTC Creo View technology, which is the basis of a comprehensive Enterprise Validation and Review solution, supports visualization of and interaction with product models. It delivers a scalable visual collaboration and digital mockup capability for product data that can be deployed throughout the enterprise. Dr. Versprille states that “Product visualization gives all stakeholders access to the product’s single source of truth.” CIMdata reviews the capabilities of PTC Creo View and its ability to pair mechanical and electronic product data for full product visualization and interaction. Highlights include PTC Creo View’s support for a Model-based Enterprise strategy and its strong interference analysis and animation capabilities.

“PTC Creo View” is available to be freely downloaded from CIMdata’s [Publications web page](#).

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CIMdata PLM Industry Summary

Conflict Minerals: The Tipping Point for Compliance? A CIMdata Commentary

31 October 2013

Key takeaways:

- *Companies developing products across a wide range of industries face increasing complexity in their products and value chains*
- *Meeting material-focused product and supplier compliance regulations is a difficult problem for companies seeking to compete in global markets*
- *Section 1502 of the Dodd–Frank Wall Street Reform and Consumer Protection Act requires companies to understand their exposure to “conflict minerals,” levying new assessment, analysis, and reporting requirements*
- *The PTC Materials Compliance Solution offers a proven platform that can help companies quickly meet these evolving requirements, while positioning themselves to address a wide range of compliance management issues*

The products that we know and love are no longer simple forcing industries like automotive and aerospace to develop much more complex products, using increasingly complicated supply chains to address global markets. In fact, the product development requirements in these industries helped lead to the emergence of product lifecycle management (PLM) strategies and solutions, focused on helping companies manage this complexity from ideation to retirement. Now, manufacturers across most segments, including electronics, medical devices, industrial, and retail must manage complexity that increases daily.

A major source of complexity is regulatory compliance. When companies sold a small portfolio of products in a single market, keeping track of the governing regulations was manageable. As their portfolio grew, the compliance challenges grew with it. But, the problem was still narrowly defined. Today, when companies sell into global markets with a range of products, it can be very difficult to keep requirements straight.

Global markets levy global requirements. In the last decade alone, a number of major regulations have gone into effect worldwide, including:

- The Waste Electrical and Electronic Equipment Directive (WEEE Directive) in 2003
- The Restriction of Hazardous Substances Directive (RoHS) in 2006
- Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) in 2007

These regulations are just the start, as highlighted in Figure 1. There will certainly be more to come.

The Clock is Ticking: Conflict Minerals Reports Needed by May 31, 2014

Within the realm of global environmental and social regulations, managing the diverse requirements associated with so many country-specific and regional variants creates an additional minefield for

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product companies. To ensure compliance, manufacturers need to understand the contents of their products and how they were made. This can be difficult to do, even when one company manages the whole value chain. With component suppliers and contract manufacturers around the globe, most companies struggle to gather and process the essential information to make the necessary compliance assessments.

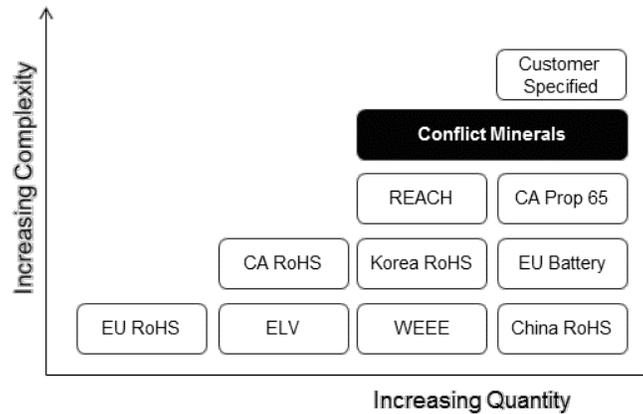


Figure 1—Increasing Numbers of Materials-Focused Regulations

Now, U.S Securities and Exchange Commission registered companies have a much more urgent need: Section 1502 of the Dodd–Frank Wall Street Reform and Consumer Protection Act, the Conflict Minerals Rule, which passed Congress and was signed into law by President Barack Obama on July 21, 2010. This law requires companies to understand the country and mine origin of materials used in their products, including all supplied materials and components, and to produce detailed reports for submission to the SEC. The focus is on the “3TG” minerals tin, tantalum, tungsten, and gold (and more than 700 derivative compounds of these metals) from the Democratic Republic of Congo (DRC) and several surrounding nations in central Africa.

Under the law, a company that uses any of the designated 3TG minerals is required to conduct a reasonable country of origin inquiry (RCOI) that must be performed in good faith and be reasonably designed to determine whether any of its minerals originated in the covered countries, and/or are from scrap or recycled sources. If there is reason to believe 3TG minerals are from a covered country, a company must conduct due diligence. The investigation must conform to a nationally or internationally recognized due diligence framework. Today, the only recognized framework for conflict minerals due diligence is provided by the Organization for Economic Co-operation and Development (OECD). The data collection methodology for this new law leverages knowledge and processes from previous efforts to identify conflict-free smelters run by the Global e-Sustainability Initiative (GeSI) in partnership with the Electronics Industry Citizenship Coalition (EICC)¹. The first reports to meet this requirement will be due to the SEC in May 2014, and annually thereafter. In addition to SEC submissions, companies must also publish information on their Website, with the URL to be included in their Form SD submittal as required by the legislation.

¹ <http://gesi.org/portfolio/project/16>

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Just which companies will be required to comply with Section 1502? According to the U.S. Government Accountability Office (GAO)², roughly 280,000 suppliers could be selling products to over 6,000 manufacturers that are registered with the SEC and likely to contain 3TG in their products. Suppliers will need to provide conflict minerals supplier declarations to the registered manufactures so that they may complete their SEC filing. Although the European Union does not currently have a conflict minerals regulation in place, legislative hearings are underway to develop similar requirements that will further impact manufacturers and their suppliers.

Meeting the Assessment and Reporting Challenge

Once a company determines that the Conflict Minerals law applies to their products, the process requires significant data collection and processing. This is a complex problem that is typically addressed by a combination of technology and changes in business processes. Some companies try to cope by using Microsoft Excel and email alone. But this approach is a poor substitute for a solution designed to address this class of problems. Based on CIMdata's research, there are a few major categories of Conflict Minerals solutions available to address this need.

Niche compliance players—Niche vendors offer simplistic, often portal-based solutions for collecting conflict minerals supplier declarations. These solutions strive to improve supplier communications, but they often do not understand the relationship between, parts, products and suppliers that is required to support the full reporting requirements of business stakeholders, customers, and the SEC. Other niche firms advertise a turn-key solution for everything from scoping to supplier data collection, product reporting, and SEC filing. These offerings are comprised mainly of services with some software and require on-going engagements. In both of these scenarios, niche vendors treat conflict minerals as an individual problem rather than as part of a larger materials, supplier, and product compliance program.

Audit firms—These firms have focused consulting and audit offerings for conflict minerals. They offer expertise in designing conflict minerals policy and procedures. Through a mostly services engagement, they offer an end-to-end solution. However, the software they provide is limited to assisting with the supplier data collection process. The offering requires on-going services engagements and, when used alone, fails to meet a strategic objective, to establish a solution that manages conflict minerals compliance as part of a holistic material compliance process.

Supply chain management—Supply chain management offerings strive to provide an integrated platform to support supplier issues and leverage practices in operations management and procurement. Typically supply chain-oriented systems focus more on supporting the data collection process, often building on top of their procurement functions that already support supply chain interaction. However, these systems are not usually oriented around the product and its product structure.

Enterprise resource planning—While most ERP providers offer some support for materials compliance, there is no public information to suggest that conflict minerals support capabilities available from the leading solution providers in this space offer the breadth of functionality necessary to address

² <http://www.gao.gov/products/GAO-13-689>

the complete set of requirements.

The PLM market—Providers of collaborative Product Definition management (cPDm) platforms are increasingly adding such capabilities to be able to better leverage the full product records that they manage. Solution providers build, partner with other companies, or acquire the necessary materials information that is embedded in their solution that supports product design activities. Each element of the design—the parts, assemblies, and products themselves—has its own materials characteristics that can be tallied and assessed during the product lifecycle.

PTC's Solution for Materials Compliance

Of all of the cPDm solution providers CIMdata tracks, PTC has made the most aggressive moves in this space. PTC provides a materials compliance platform that includes support for the new Conflict Minerals law. The compliance platform can be deployed as a standalone offering or as part of an integral PTC PLM solution. The PTC Materials Compliance solution offers proven capabilities, dating back to functionality originally built by Synapsis Technology, a leader in the regulatory compliance market before its acquisition by PTC in 2008. PTC can readily connect PTC Materials Compliance with other enterprise systems as required, including enterprise resource planning (ERP) and product lifecycle management (PLM) platforms from other PLM providers.

Unlike those solutions found in other categories of conflict minerals offerings, the PTC Materials Compliance solution embodies a deep understanding of products and product structure. This supports data capture, analysis, and reporting at the supplier, part and product levels, which better represents the buyer/supplier relationships for communication and subsequent action. The PTC Materials Compliance solution also natively supports the different roles and relationships in the market and the supply chain, a capability more common in the PLM market space than in the other markets discussed above.

According to PTC, the PTC Materials Compliance Solution delivers capabilities to address each of the five steps in the SEC conflict minerals compliance process:

1. Determine Applicability—Identify suppliers, parts and products with 3TG based on supplier declarations, supplier classifications, product commodity codes, and/or other material compliance disclosure information.
2. Perform Reasonable Country of Origin Inquiry (RCOI)—Automate the request, receipt, and validation of supplier declarations.
3. Conduct Supplier Due Diligence—Systematically process supplier responses, and manage and interpret relevant information to conform with the SEC/OECD due diligence framework.
4. Determine Conflict Mineral Status—Assess supplier, part, and product level status.
5. Report—Leverage system reports and information to support SEC filing and customer reporting requirements, and to streamline audit processes

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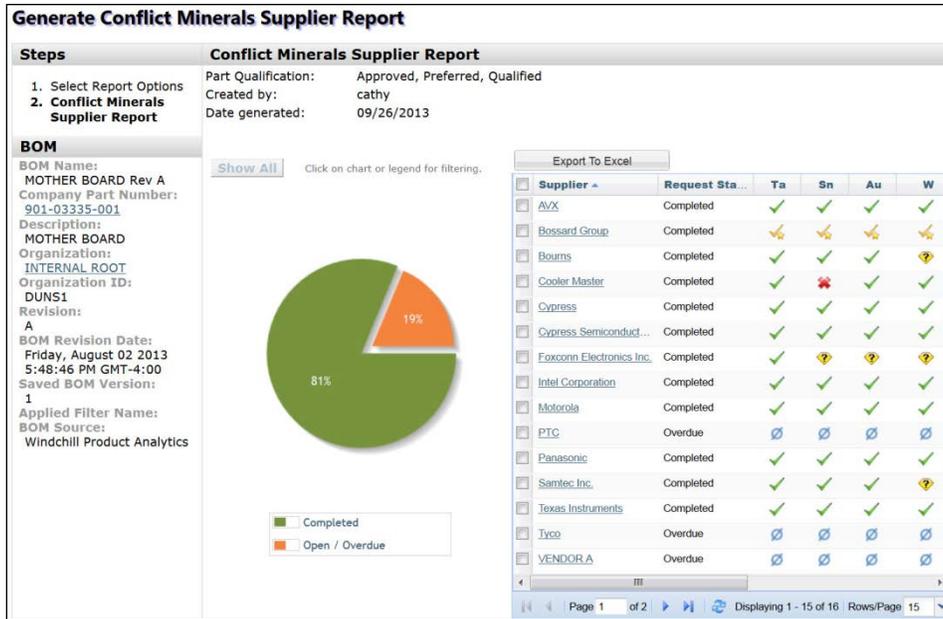


Figure 2—PTC Materials Compliance Dashboard Highlights Compliance Issues

The PTC conflict minerals solution automates the request, response and validation of supplier conflict mineral disclosures and leverages industry standards, including the EICC/GeSI Conflict Minerals Reporting Template. Supplier responses are systematically processed to compile the necessary data and prepare the necessary reports. Having a solution integral with product development enables real-time assessment of products throughout the product lifecycle, including during the new part introduction process and supplier qualification. Once the data is gathered, PTC Materials Compliance includes significant out-of-the-box and custom reporting capabilities that will help decision-makers address their materials compliance issues quickly and effectively. This solution was released in April 2012 and offers flexible procurement and deployment options, including traditional, on premise; cloud based; and Software-as-a-Service options. The solution is currently in use by leading manufacturers across industries.

Conclusion

On which side of the tipping point is your organization? Time is short, with May 2014 soon upon us. All manufacturing companies should be taking steps today to comply with the conflict minerals law. While a number of solutions exist, the PTC Materials Compliance offering has shown its ability to help companies of all sizes address their compliance needs. PTC took steps to enhance this offering to meet this urgent need out of the box, either standalone or integral with PLM mode. While this new solution focuses on the pressing need around Conflict Minerals, the PTC Materials Compliance platform also provides the basis to meet other existing and future compliance requirements head-on in the battle for global success.

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

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

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Acquisitions

Accenture to Acquire Leading Product Lifecycle Management Company – PCO Innovation – To Help Clients Take New Products to Market Faster and More Efficiently

31 October 2013

[Accenture](#) today announced plans to acquire [PCO Innovation](#) – a leading international consulting and systems integration group that specializes in product lifecycle management (PLM) software technologies. The acquisition will strengthen Accenture's ability to help clients organize, develop and manage new products and services throughout their lifecycle and bring them to market more quickly and efficiently.

“For many of our clients, competitive differentiation depends on innovation and time to market, so improving their PLM solution portfolio brings significant value to their business”

PCO Innovation offers PLM strategy and process consultancy, application architecture, system implementation, data migration and application management. Its professionals specialize in delivering PLM industry-leading platforms including Dassault Systèmes, PTC and Siemens PLM.

The acquisition complements Accenture's deep industry capabilities and the full range of services it provides clients in the design, building and management of systems and processes essential to driving their large-scale PLM transformation programs.

“Our clients are shifting to global operating models and the complexity of their products and services is increasing,” said Sergio Colella, managing director, Accenture. “There is a greater demand to integrate product and service development processes across disciplines from innovation to manufacturing, supply chain and customer service. With the combined capabilities of PCO Innovation and Accenture, we improve our ability to address this fast- growing market which is core to our clients as they build their future offerings.”

Earlier this year, Accenture acquired [PRION Group](#), a company also specializing in the delivery of PLM services. With the addition of PRION Group's capabilities and the skills and experiences of PCO Innovation's professionals, Accenture has expanded its ability to help automotive, aerospace and

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defense, consumer goods, electronics and industrial equipment clients improve the critical processes required to deliver products to customers quickly and efficiently. PCO Innovation's employees, assets and accelerators will support the expansion of Accenture's end-to-end PLM business services.

Etienne Borgeat, PCO Innovation CEO, said: "Having established PCO Innovation as a leading independent PLM group, we are pleased to be creating a market leader for end-to-end PLM services with Accenture, offering our clients an unparalleled set of solutions and services."

"For many of our clients, competitive differentiation depends on innovation and time to market, so improving their PLM solution portfolio brings significant value to their business," said Jean-Laurent Poitou, senior managing director, Accenture. "Our research shows that PLM can get products into the market faster and more efficiently, increasing the speed of product launches by up to 55 percent and reducing operational and product development costs by 10–30 percent. PLM is also a critical lever for manufacturing companies to create profitable and sustainable business opportunities in customer service."

Completion of the acquisition is subject to customary closing conditions.

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Addnode Group Acquires the Operations of CAD-Expert Oy

1 November 2013

The acquisition of CAD-Expert Oy's operations strengthens the business of Addnode Groups subsidiary Cad-Q in the Finnish market. CAD-Expert Oy develops and supplies software for computer-aided design and related consulting and training services.

CAD-Expert Oy was established in 1988 and the company has annual net sales of approximately SEK 3 M. The acquired business develops and supplies software for computer-aided design and related consulting and training service. CAD-Expert's solutions developed for varied industries work on top of Autodesk's AutoCAD and AutoCAD LT software.

The acquired business will be integrated as part of Cad-Quality Finland Oy's operations as of the fourth quarter 2013.

"CAD-Expert Oy will increase our presence in the Finnish market and give us an even better opportunity to be a part of and contribute to our customers' daily design workflow with own technology and this way further strengthen Cad-Q's position as software developer", says Rolf Kjærnsli, Managing Director Cad-Q and head of Business area Design Management Addnode Group.

"Selling the operational part of CAD-Expert to Cad-Q was a natural choice knowing the strong position Cad-Q already has and the potential there is, in the Finnish market. Cad-Q's wide contact network will allow better distribution for software developed by CAD-Expert. Solutions have been designed to be

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user friendly, make design work easier and are according to Finnish standards”, says Kusti Vuorensivu, Owner and Managing Director of CAD-Expert Oy.

The parties have decided not to reveal any details about the transaction.

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AMETEK Acquires Creaform, Inc.

30 October 2013

AMETEK, Inc. today announced that it has acquired Creaform, Inc., a leading developer and manufacturer of innovative portable 3D measurement technologies and a provider of 3D engineering services for approximately \$120 million. Based near Quebec City, Canada, the privately held company has annual sales of approximately \$52 million.

Creaform is an industry leader in stand-alone portable 3D scanners. These optical devices are used in a growing number of applications to create accurate 3D models and measurements of a wide range of objects. Its products include several families of handheld 3D scanners, portable coordinate measuring machines and related accessories that are widely used in reverse engineering, dimensional inspection, precision manufacturing, non-destructive testing, automated quality control and 3D printing. The Handyscan 3D, a handheld laser scanner used to perform non-contact measurement, leads the market in capability and portability.

"Creaform is an outstanding acquisition. It has an impressive R&D base and an industry-leading position across a number of high growth market applications. Creaform significantly expands the range of non-contact metrology products offered by our Ultra Precision Technology business," comments Frank S. Hermance, AMETEK Chairman and Chief Executive Officer.

"Creaform's innovative, optically-based product line and excellent customer base will expand our metrology sales into attractive segments closely adjacent to those of our existing Taylor Hobson and Solartron Metrology businesses," he adds.

Creaform has its headquarters and manufacturing operations in Levis, Quebec. It operates innovation centers in Levis and Grenoble, France, and has direct sales operations in the United States, France, Germany, China, Japan and India. It joins AMETEK as part of its Electronic Instruments Group (EIG) - a recognized leader in advanced monitoring, testing, calibrating, and display instruments with 2012 sales of \$1.9 billion.

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Company News

AVEVA Delivers the Benefits of Engineering and Design for Lean Construction

29 October 2013

AVEVA today announced its approach to ‘*Engineering and Design for Lean Construction.*’ This approach draws on Lean principles to guide the continuous, evolutionary process of engineering design development. In a new business paper, AVEVA explains how, by enabling dynamic feedback within the processes of complex, multi-discipline projects, a controlled ‘Design Spiral’ can be achieved, delivering the benefits of Lean Construction.

“Particularly during their early phases, plant projects involve continuous, high rates of design change that requires a uniquely flexible business process,” explained Bruce Douglas, Senior Vice-President, EDS Strategy & Marketing, AVEVA. “As complex designs are progressively created, information is shared across disciplines and contractual boundaries. Design changes occur continually as the overall design is refined through numerous cycles.”

The design process iterates, with each discipline’s contribution moving ever closer to its final outcome over a number of passes. This is what AVEVA has termed the ‘Design Spiral’. Left unmanaged, poor or uncoordinated design decisions can arise; the work is at risk of spiralling out of control, leading to costly errors and delays.

“An engineering and design approach that adopts a Lean Construction methodology can make project execution run more smoothly. This approach empowers teams to efficiently deliver compliant designs by more easily sharing information, both across design disciplines and across the world.” Mr. Douglas added.

AVEVA's Integrated Engineering and Design solution supports the Engineering and Design for Lean Construction vision. AVEVA’s Integrated Engineering and Design solution improves project efficiency and reduces engineering and design costs by offering complementary products that draw on common processes, disciplines and deliverables. Critical information is efficiently shared between disciplines and across teams, simplifies the process and improves project schedule and quality.

The business paper is available to download from www.aveva.com/publications.

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Bentley Announces Winners of 2013 Be Inspired Awards

31 October 2013

Bentley Systems, Incorporated, announced the winners of the 2013 *Be Inspired* Awards. The awards

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honor the extraordinary work of Bentley users improving the world's infrastructure. They were presented at a ceremony during *The Year in Infrastructure 2013* Conference, held 29-31 October in London, United Kingdom. This global gathering of leading executives in the world of infrastructure design, construction, and operations featured presentations and interactive sessions exploring the intersection of technology and business drivers, and how they are shaping the future of infrastructure delivery and investment returns. It was also attended by more than 100 members of the media from leading publications around the globe.

Special guest keynoters included Sir John Armit, chairman of the Olympic Delivery Authority for London 2012 and chairman of National Express; Andrew Wolstenholme, CEO of Crossrail Ltd.; Peter Hansford, chief construction advisor to the U.K. government; and Pedro Miranda, corporate VP, Siemens AG, and head of the Global Center of Competence Cities.

During the awards ceremony, 22 *Be Inspired* Awards winners and nine *Be Inspired* Special Recognition Awards winners were acknowledged. In addition, this year's recipient of the Bentley Educator of the Year award, Dr. Francelina Neto of California State Polytechnic University Pomona, United States, was acknowledged, as was Captain Nicholas Sloane, the Salvage Master of the Costa Concordia Parbuckling Project, who was saluted as an Infrastructure Hero for his key role in this unprecedented engineering feat to safely right and remove the sunken Costa Concordia cruise ship.

Six independent panels of jurors, comprising accomplished Bentley users and distinguished industry experts, selected the *Be Inspired* Awards winners from 65 project finalists. These finalists had been previously chosen from submissions by more than 300 organizations in 43 countries.

Candidates for Bentley's *Be Inspired* Special Recognition Awards were selected by the jurors from the top finalist projects as well as other exemplary nominations. This selection was based on the projects' uniquely innovative and visionary achievements that transcend the narrower focus of the standing *Be Inspired* Awards categories. The nominees were then reviewed by a panel of Bentley executives, who evaluated them based on the criteria established for each award.

Bentley Systems CEO Greg Bentley said, "I attend many Bentley events throughout the year, and I certainly enjoy and value each and every one of them. But our *Be Inspired* Awards ceremony – now part of our broader and more compelling *Year in Infrastructure* Conference – is, indeed, one of my favorites. It reminds me why all of us in the field of sustaining infrastructure do what we do. Hearing about the remarkable projects that are delivered every year in service to enhanced quality of life is an inspiration like no other. I thank and congratulate this year's award winners, along with all of our nominees, for their important contributions to sustaining our society, our environment, and global economic growth."

Bentley Systems has posted highlights of this year's winning projects on its [website](#) and will include detailed descriptions of all nominated projects in the print and digital versions of *The Year in Infrastructure 2013*, which will be published by year's end. To review the last nine editions of this publication, which together feature more than 2,000 world-class projects recognized in the *Be Inspired* Awards program since 2004, visit www.bentley.com/yearininfrastructure.

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To view an unabridged version of this press release, visit: <http://www.bentley.com/en-US/Corporate/News/Quarter+4/awards+winners.htm>

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Boston University College of Engineering Receives 50 Seats of GibbsCAM

26 October 2013

Gibbs and Associates today announced they have granted 50 seats of GibbsCAM software to Boston University's College of Engineering. The software, which has a commercial value of over \$725,000.00, provides Boston University students the ability to program a full range of CNC machine tools from importing CAD models to generating toolpath to verifying the part program with machine tool simulation. Programming capabilities include 2- through 5-axis milling, 2-axis turning, mill-turn, multitask machining and wire EDM. The software also provides native interoperability with PTC Creo Parametric software, the college's CAD standard, enabling direct transfer of PTC Creo models to GibbsCAM for manufacturing. The GibbsCAM software will be used in both the traditional classroom environment and in Boston University's new, 20,000 square foot Engineering Product Innovation Center (EPIC), where students of all engineering disciplines will learn about product development, from concept through design, manufacturing and delivery.

"We congratulate the Boston University College of Engineering on building its new EPIC facility with state-of-the-art technology," said Robb Weinstein, Senior Vice-President of Sales and Strategic Planning of Gibbs and Associates. "It is with great pleasure that we partner with Boston University to supply a state-of-the-art CNC programming system for incorporation into their engineering and manufacturing curricula and the EPIC facility. In addition to being an efficient platform for manufacturing, GibbsCAM is also an effective tool for teaching and learning CNC programming and machining processes. We are confident that the College of Engineering will find GibbsCAM to be a valuable asset for educating the manufacturing professionals of tomorrow."

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Infor Raises \$76,000 for Leukemia & Lymphoma Society

28 October 2013

Infor is proud to announce that it successfully raised \$76,000 for the [Leukemia & Lymphoma Society](#) (LLS) through the annual Light the Night Walk. This marked Infor's second year as a sponsor of the fundraiser, which supports families and individuals battling leukemia, lymphoma and blood diseases. Over the past two years, Infor has raised more than \$148,000 for the LLS.

This year, 110 Infor employees based in Infor's Alpharetta, Ga. office joined more than 8,000 total participants at both the North Metro and Centennial Park Light the Night Walks. Overall, the Atlanta

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community raised \$1.6 million for the LLS, which will be used to support lifesaving blood cancer research, local outreach programs and the provision of free education materials for patients and their families. Infor encourages each employee to participate as a walker or volunteer, or donate online, to support the discovery of effective blood cancer treatments through the LLS.

"Infor views the Leukemia & Lymphoma Society as an important partner in our commitment to social responsibility," said Jeff Abbott, Infor senior vice president, and Atlanta corporate chairman for the Light the Night campaign. "We look forward to many more years working together to help better the lives of patients everywhere."

For more information on Infor's corporate citizenship initiatives, please visit www.infor.com/company/corporate-citizenship/.

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JETCAM Signs new Dealer in South Korea

30 October 2013

JETCAM International s.a.r.l. announced the signing of Shine Eng as a reseller for its range of sheet metal software products in South Korea.

The company, based in Seo-Gu, Incheon-si provides service and support for all major brands of punching machines. As the company already has staff experienced with JETCAM products they will offer the complete range of JETCAM CAD/CAM, nesting and ancillary applications including JETTerm DNC and JETCAM Orders Controller to both new and existing users.

J.B. Peter of Shine Eng said; "Many of our customers already use JETCAM and are extremely satisfied with their ability to quickly program their machines. We are delighted that we can now offer the complete range of JETCAM products to both existing customers and new prospects in the region."

Martin Bailey, General Manager for JETCAM International s.a.r.l. added; "We already have a considerable customer base in South Korea and the surrounding areas. As Shine Eng already have staff that are experienced with JETCAM they can immediately assist existing customers looking to upgrade."

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Knovel Launches Software Engineering Subject Area

28 October 2013

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[Knovel](#) today announced the addition of a new subject area: Software Engineering. Focusing on the aerospace, industrial equipment and engineering design industries, this product helps software engineers create robust, stable and secure software that must perform in the most demanding situations.

Knovel's Software Engineering subject area includes content about developing software that controls equipment, monitors processes for safety, analyzes data for reporting and diagnostics, allows users to interact with machines and electronics, and powers communication networks. The collection has a unique focus on embedded software, software security and testing, industrial software such as automotive and aerospace, and scripting for engineering design software.

Key topics in the Software Engineering subject area include:

- Frameworks
- General References
- Mobile and Web Applications
- Operating Systems and Servers
- Embedded Software
- Programming Languages
- Project Management
- Software Testing and Verification

“Software that plays an integral role in the development or operation of industrial equipment, power plants, refineries, airplanes or infrastructure must work perfectly,” said Knovel's Meagan Cooke, Senior Director of Product Management, Content. “Knovel's Software Engineering subject area offers developers in these industries the resources they need to consistently make sound development decisions, helping to ensure that software designed for critical tasks performs flawlessly.”

Knovel's Software Engineering subject area offers unbiased information from leading publishers and societies, including the American Institute of Aeronautics and Astronautics (AIAA), Elsevier, IGI Global, Industrial Press, International Society of Automation, Packt Publishing and SAE International.

For more information about Knovel, go to <http://why.knovel.com>.

Existing customers can talk to their account services representative about new content available and subscription options.

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Nuage Announces Wilma Flanagan as New Chief Executive Officer

1 November 2013

Nuage, a leading provider of Social Business Collaboration solutions, has announced that the company has appointed Wilma Flanagan, former Chief Operating Officer at Nuage, as Chief Executive Officer. Flanagan replaces Chris Atkins as Chief Executive Officer as he takes on a new role within the company as Executive Vice President of Business and Corporate Development.

With a BA in Mathematics from Susquehanna University, PA, Flanagan started her 30+ year career at Unisys Corporation, formerly Burroughs Corporation where she was regarded as a results-oriented dynamic leader, change agent and a mentor to many. She went on to be a Divisional CIO for OfficeMax, a CSC IT Consulting Partner and Managing Director for the Pacific Northwest Region, and prior to Nuage, a Partner at Kalypso, an Innovation Consulting firm.

Flanagan has been the Chief Operating Officer and Executive Vice President of Business & Product Development for Nuage for the past two years. With her extensive business network and leadership, she has successfully attracted investors, team members and subscribers to Nuage during this time. Her hard work and dedication has been a major factor in getting Nuage to where it is today.

“The last two years has been an exciting time for Nuage marked with major accomplishments and breakthroughs,” said Flanagan. “We are on the cusp of an even more exhilarating phase and it’s a great privilege to be asked to lead Nuage at this important moment in the company’s history. I look forward to continuing to serve the company with passion and dedication and, together with my team, capitalize on my professional track record of delivering business growth and customer success.”

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Tech Soft 3D Adds Dave Opsahl as Vice President, Corporate Development

23 October 2013

Tech Soft 3D is pleased to announce that Dave Opsahl is joining the company as the Vice President of Corporate Development. In this role, Dave will explore, develop and lead company growth initiatives as well as add extensive leadership experience to the Tech Soft 3D team.

Dave has a distinguished track record in business development including his most recent role as the Managing Member of Sagemark LLC, a consulting company specializing in marketing and business development projects for manufacturing software companies. He also served as the Executive Director of the 3D PDF Consortium, where he led the formation of the new industry consortium, recruited members, and established the organization as an independent source of information related to 3D PDF. With the consent of the Board of Directors of the Consortium, Dave will continue his role as Executive Director until such time as an appropriate successor is determined.

Prior to joining the 3D PDF Consortium, Dave spent six years as the CEO of Actify, a leader in 3D

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product data intelligence. He previously served as Vice President of Business Development at Actify, Cardonet, Assentive Solutions and Adaptive Media, was General Manager of Tecnomatix Quality Engineering (now part of Siemens PLM Software), and spent 12 years as a Regional Sales Director for Computervision.

“As Tech Soft 3D continues its growth and expansion we need and value the kind of experience and skill that Dave brings to the table. Having known Dave in a number of capacities and roles over the years, I am confident he will be a valuable addition to the team and a key part of our company growth,” said Ron Fritz, Tech Soft 3D CEO.

Dave Opsahl added, “I believe Tech Soft 3D is wonderfully poised to continue its current growth trajectory. Tech Soft 3D’s people, technology and relationships position the company for some exciting times ahead and I am eager to be a part of that.”

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Three Additions to the Alphacam Family

31 October 2013

CAD/CAM specialist Alphacam has appointed two area managers to its expanding sales team, and grown its technical team by recruiting an additional application engineer.

Having seen its business rise by double figures during the last two years, Alphacam appointed a UK Sales Manager in early 2013 and is restructuring its territories. General Manager Nick Spurrett says: “We’re increasing our team, giving area managers more time with individual customers.”

David McIntyre joins as Area Sales Manager for Ireland and Scotland, from a customer in Ireland, where he worked with Alphacam on bespoke commercial furniture and joinery. “Having been an Alphacam end-user for several years I became interested in its applications across a number of industries.”

He is a graduate of the world-renowned Letterfrack furniture college – itself a major user of Alphacam. His career began as a furniture designer before moving into production, eventually becoming Production Manager of Glenn Wood Tullamore, in Co. Offaly, working extensively with CNC machines and Alphacam.

Nick Spurrett says: “David’s good working knowledge of the furniture industry, along with his experience of both design and manufacturing, and ten years CNC programming with Alphacam, make him ideal to show manufacturers how the software can program any component in any material.”

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Shaun Boit: Before originally joining Alphacam in 2006 as a technical support engineer Shaun Boit worked as a joiner and wood machinist for 20 years. He moved into Alphacam sales in 2008, also working with sister Vero brand Cabinet Vision, switching to Cabinet Vision full time in 2012.

But he says the time is now right to return to Alphacam. “From small scale projects through to the most complex, Alphacam has a module for everything, providing a complete customer-focused solution which is both flexible and easy to use. This is the most exciting time in its history and I want to be part of it.”

Says Nick Spurrett: “We’re very pleased to have Shaun back. He joins Clifford Ashwin and Martin Measures, covering one of our new, three smaller territories in England and Wales.”

Paul Green is another returning face, taking on an additional applications engineer role, encompassing Alphacam support, handling customer enquiries, and visiting customers to configure and test post processors.

Completing a machine tool setter apprenticeship, he began programming, setting and running CNC lathes, becoming an applications engineer, first for Emco lathes, then Alphacam for 11 years. Having spent the last 12 months writing post processors for another software developer, he, too, felt the time was right to rejoin Alphacam.

“It’s simple to use, but is flexible enough to handle a specific customer’s individual requirements. Having programmed, set up and run machines, I understand customers’ needs and expectations, and my Alphacam knowledge will help me to meet and exceed those expectations.”

Concludes Nick Spurrett: “As the sales team grew, we also needed to expand the technical team. With his 27 years experience of CNC machines and extensive Alphacam background, Paul is a great asset to have back, and to fill this additional role.”

Alphacam will also be announcing new recruits to its growing development team shortly.

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Wichita State receives in-kind Grant from Siemens PLM Software

29 October 2013

Wichita State University's Department of Aerospace Engineering has received an in-kind software grant from Siemens PLM Software.

The grant provides students access to the same technology that companies around the world depend on

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to develop innovative products in a variety of industries including automotive, aerospace, machinery, shipbuilding and high-tech electronics.

The in-kind grant came about when WSU's Charles Yang, professor of aerospace engineering, inquired about the availability of software that many local aircraft companies use for structural analysis. The Femap™ software is used to design models for complex engineering problems.

"We would like to thank Siemens PLM Software for their grant with a commercial value of more than \$135,000," said Yang. "This grant of advanced engineering software enables us to provide better experience-based engineering education for our students and to better prepare them for successful advanced technology careers."

Graduates with this type of software training are highly recruited candidates for advanced technology jobs. Siemens' academic program delivers technology to more than 1 million students yearly at more than 11,000 global institutions. It provides software used at every academic level – from grade schools to graduate engineering research programs.

"Siemens PLM Software is dedicated to equipping today's students with the knowledge and skills necessary to serve the next generation of engineers," said Bill Boswell, senior director, partner strategy, Siemens PLM Software. "Wichita State University serves a key role in filling the STEM (science, technology, engineering and mathematics) job skills gap and producing highly qualified future employees."

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Zuken and CONTACT Software Establish Joint Venture for Engineering Data Management

29 October 2013

In a first for the electrical and fluid design market, Zuken and CONTACT Software have established a joint venture to provide best-in-class engineering process and data management specifically designed for today's distributed, concurrent design projects. The new company, located in Bremen, Germany, will focus on developing engineering data management (EDM) solutions for Zuken's E3.series.

The joint venture brings together a global provider of leading-edge software for electrical and electronic design and manufacturing, and a German leader and pioneer in collaborative product development. The new company is founded on CONTACT's new open and modular technology for product data and process management, and its expertise and reputation for CAD- and multi-CAD data management.

“As the size and complexity of electrical and fluid designs continually increases, managing data and processes is a growing concern for designers of these products and systems. Our joint venture will pool resources and expertise from both companies to create the first native integration of electrical and fluid

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design data into an engineering data management system.” - Gerhard Lipski, Board of Directors, Zuken

Managing the day-to-day process of electrical and fluid engineering is becoming more difficult as electrical and fluid systems in machines and transportation grow increasingly complex. It is no longer practical to manage data on individual desktops and “throw it over the wall” for collaboration with local or dispersed team members. Additionally, the data management solutions that exist today are inadequate for managing electrical and fluid design data in its native form. The goal of the joint venture is to provide technology that will enable companies to realize the value of engineering data and process management with low deployment effort, thus significantly shortening implementation time and lowering cost of ownership.

“The experience of our joint team and our open technology and Zuken’s strong reputation are excellent assets and starting points to deliver EDM solutions that are not available anywhere else. We are looking forward to innovative and market-leading solutions from this collaboration.”- Karl Heinz Zachries, CEO and founder of CONTACT Software

Michael Murgai from CONTACT Software and Wolfgang Heinrichs from Zuken have been appointed Managing Directors of the joint venture company, Zuken Contact GmbH & Co. KG.

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Events News

Agenda Announced: NAFEMS Simulation Data Management Industry Experience Forum

30 October 2013

NAFEMS is delighted to announce the agenda for its upcoming ‘Simulation Data Management: from Concept to Reality - Industry Experience Exchange Forum’ taking place in Troy, MI on November 22nd.

An agenda featuring presentations from Ford, EuroPro, Parker Aerospace, Prostep, Emerson, Boeing, GKN, Whirlpool and others, the one-day SDM dedicated symposium will focus on "Realworld" SDM deployment, including success cases, failure cases and lessons learned.

“We’ve got a superb agenda lined up with experts in the field sharing their insight into their simulation data management experiences and lessons learned”, commented Tim Morris, NAFEMS Chief Executive. “More and more companies now have an urgent need to get their simulation data under control and improve their simulation processes and productivity. This one-day symposium provides the perfect exchange forum to understand the benefits of implementing a simulation data management solution whilst benefiting and learning from the experiences of industry leaders.”

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Companies moving into or advancing SDM technology will benefit from sending key engineers to this event. Participants will leave with an improved understanding of the benefits gained from implementing a Simulation Data Management system to save time, reduce development costs, and improve time-to-market.

The primary focus of the symposium will be on companies sharing their experiences, lessons learned, and benefits gained from breakthrough improvements in simulation throughput, analyst productivity, product performance, and information traceability.

Full details of the event, including the agenda can be found at www.nafems.org/sdmforum.

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CNC Software, Inc. and Colla, Ltd Showcase Mastercam X7 at Mashex 2013

28 October 2013

CNC Software, Inc., is traveling to Moscow to support esteemed Russian Mastercam Reseller Colla, Ltd at the Mashex show. Mashex attendees will get to experience the most powerful Mastercam machining software yet. Stop by Stand C113 at the Crocus Expo in Moscow, Russia, October 29 - November 1 for a look at Mastercam X7, the latest Mastercam release. Mastercam X7 introduces many significant new capabilities, including the new Mill-Turn product, Renishaw Probing, and much more.

New Mastercam Mill-Turn

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

Renishaw Probing

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

New Lathe Dynamic Rough Toolpath

The Lathe Dynamic Rough toolpath is designed for hard materials cut with button inserts. The dynamic motion allows the toolpath to cut gradually, remain engaged in the material more effectively, and uses more of the surface on your insert, extending tool life and increasing the cutting speed.

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Also available in Mastercam X7:

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

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

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NGC's Panorama 2013 User Conference Features an All-Star Lineup of Fashion Industry Experts and Speakers

30 October 2013

NGC Software announced its [Panorama User Conference](#), an event that connects NGC customers, consultants and industry experts in a three-day event where they can share strategies, best practices and gain valuable insights.

The Panorama 2013 User Conference will be held at the Eden Roc Miami Beach hotel on world-renowned Miami Beach, November 13-15, and will include user sessions that focus on the latest updates on NGC's PLM, SCM and ERP solutions, as well as new product features and upcoming enhancements. Attendees will receive invaluable insight into industry best practices and can participate in product training sessions and individual meetings with NGC solution experts and peers.

The keynote speaker is Kevin Burke, president and chief executive officer of the American Apparel & Footwear Association (AAFA); Burke is one of the most influential executives in the apparel and footwear industries and a highly sought-after speaker. Other presenters at Panorama include top executives from Carter's, Dupont, Fashion Avenue Sweater Knits, Neatfreak, Rocky Brands, Swatfame, Stony Apparel, GTM Sportswear, and Obermeyer.

"Panorama 2013 is an incredible learning opportunity for our customers, where they can gain valuable insights to take back to their teams," said Mark Burstein, president of sales, marketing and R&D, NGC. "We're excited to present a world-class lineup of speakers and to bring together so many NGC customers for education, networking and information on our product strategies."

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Financial News

3D Systems Reports Q3 2013 Results

29 October 2013

3D Systems Corporation announced today that its third quarter revenue grew 50% from the prior year to a record \$135.7 million on a 76% increase in printers' and other products revenue and 30% overall organic growth, resulting in GAAP earnings of \$0.17 per share and non-GAAP earnings of \$0.26 per share.

Gross profit increased 52% and gross profit margin expanded 80 basis points to 52.6%, contributing to GAAP net income of \$17.7 million, and non-GAAP net income of \$26.2 million, representing a 44% improvement over the 2012 quarter.

For the nine months 2013, revenue grew 42% to \$358.6 million, on an 81% increase in printers and other products revenue and 27% organic growth, resulting in GAAP earnings of \$0.34 per share and non-GAAP earnings of \$0.66 per share. Gross profit increased 46% and gross profit margin expanded 120 basis points to 52.3%.

“We are very pleased to report another record revenue quarter on unprecedented printer units demand that more than tripled last year’s unit sales,” said Avi Reichental, 3D Systems’ President and Chief Executive Officer. “Stronger materials sales, increased advanced manufacturing activities and meaningful consumer products revenue contribution fueled our growth.”

Third Quarter 2013 Revenue Highlights (compared to 2012 quarter):

- 3D printers and other products revenue increased 76% to \$59.8 million.
- Print materials revenue grew 30% to \$33.2 million.
- Services revenue rose 38% to \$42.7 million.
- Healthcare revenue grew 39% and contributed \$16.9 million to our total revenue.
- Consumer solutions contributed \$13.5 million to our total revenue.

The company continued to increase its R&D and marketing expenditures, making investments in support of its near term opportunities and expanding product portfolio. For the third quarter in a row, the company expanded its manufacturing capacity to accommodate increasing demand for its products and services.

“We are accelerating developments of key products, channels and technologies to capture a broader share of upstream production applications and downstream consumer opportunities,” continued

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Reichental.”

To accelerate its growth rate, the company decided to further increase its R&D, marketing and retail field operations spending in connection with specific, near-term, new product introductions and retail channel expansion. Significant marketplace interest in its recently acquired, proprietary, Phenix direct metals 3D printers also compelled the company to accelerate new products development and capacity investments. As a result, the company updated its annual guidance for the full year 2013, increasing its revenue guidance to be in the range of \$500 million to \$530 million and, consistent with the step up in discretionary spending, reducing its non-GAAP earnings per share guidance to be in the range of \$0.93 to \$1.03.

“For the next few periods we are going for accelerated market-share expansion ahead of earnings per share. We believe that our portfolio’s diversity, ranging from direct metal printers at the high end to desktop consumer printers at the low end, is best positioned to capture this unprecedented market opportunity, and expect that our decisive actions will extend our first mover advantage in key verticals. With the fundamentals of our business model remaining intact, we fully expect that the higher investments we are making currently will favorably influence our results in the coming periods,” concluded Reichental.

Conference Call and Webcast Details

3D Systems will hold a conference call and webcast to discuss its operating results for the third quarter and nine months 2013 on Tuesday, October 29, 2013 at 9:00 a.m., Eastern Time.

- To access this webcast, log onto 3D Systems’ web site at www.3dsystems.com/investor. To ensure timely participation and technical capability, we recommend logging on a few minutes prior to the conference call to activate your participation.
- To access this conference call, dial 1-800-706-7745 from in the U.S. or 1-617-614-3472 from outside the U.S. and enter participant code 86406937.
- The webcast will be also be available for replay beginning approximately two hours after completion of the call at:www.3dsystems.com/investor.

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9-month Figures 2013: Nemetschek continues its Profitable Growth Course

31 October 2013

- Group revenues raises 5.1% to EUR 134.2 million
- Above average EBITDA growth of 12.1% to EUR 31.8 million
- High EBITDA margin of 23.7%
- Earnings per share climbs to EUR 1.68 (+24.5%)

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The Nemetschek Group continued to grow profitably in the third quarter of 2013.

In total, Group revenues 2013 rose in the first nine months by 5.1% to EUR 134.2 million (prior year: EUR 127.7 million). The result before interest, taxes and depreciation (EBITDA) increased by 12.1%, faster than revenues, and stood on September 30, 2013, at EUR 31.8 million (prior year: EUR 28.4 million). The EBITDA margin climbed correspondingly to 23.7% (prior year: 22.2%). The positive development in results is also reflected in the net income, which stood at EUR 16.2 million, 24,5% higher than last year (prior year: EUR 13.0 million). Earnings per share improved to EUR 1.68, after EUR 1.35 in the prior year.

Their core markets in the DACH region developed positively, and the international markets picked up, too. While domestic revenues rose 5.9%, we recorded growth of 4.6% in their international markets. Major growth regions were amongst others Asia and North and South America.

Revenues from maintenance contracts rose strongly, namely 8.9%. With revenues of EUR 64.4 million (prior year: EUR 59.1 million), the share contributed to total revenue by maintenance increased to 48.0% (prior year: 46.3%). Our revenues from licenses were stable, rising 1.5%. After the first nine months these revenues stood at EUR 62.8 million (prior year: EUR 61.9 million). Hence licenses contribute 46.8% to total revenues (prior year: 48.5%).

To view an unabridged version of this press release, visit: <http://goo.gl/3NSJpM>

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Accelrys Announces Third Quarter 2013 Results

30 October 2013

Accelrys, Inc. reported financial results for the fiscal quarter ended September 30, 2013. Non-GAAP revenue for the quarter ended September 30, 2013 increased \$0.9 million to \$44.3 million from \$43.4 million for the same quarter of the previous year, or an increase of 2.1 percent. Non-GAAP revenue for the nine months ended September 30, 2013 increased \$3.3 million to \$130.1 million from \$126.8 million for the same period of the previous year, or an increase of 2.6 percent.

Non-GAAP net income was \$7.9 million, or \$0.14 per diluted share, for the quarter ended September 30, 2013, compared to non-GAAP net income of \$6.3 million, or \$0.11 per diluted share, for the same quarter of the previous year. Non-GAAP net income was \$15.2 million for the nine months ended September 30, 2013, compared to non-GAAP net income of \$15.1 million, for the same period of the previous year, or \$0.27 per diluted share for both periods.

GAAP revenue for the quarter ended September 30, 2013 increased \$0.4 million to \$40.9 million from \$40.5 million for the same quarter of the previous year, or an increase of 1 percent. GAAP revenue for the nine months ended September 30, 2013 increased \$3.7 million to \$122.1 million from \$118.3 million

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for the same period of the previous year, or an increase of 3.1 percent.

GAAP net loss was \$(8.3) million, or \$(0.15) per diluted share, for the quarter ended September 30, 2013 compared to GAAP net income of \$0.6 million, or \$0.01 per diluted share, for the same quarter of the previous year. GAAP net income was \$5.8 million, or \$0.10 per diluted share, for the nine months ended September 30, 2013 compared to GAAP net loss of \$(2.2) million, or \$(0.04) per diluted share, for the same period of the previous year. GAAP net income for the nine months ended September 30, 2013 included a one-time gain of \$25.9 million, or \$0.45 per diluted share, recognized upon the payoff of the promissory note receivable from Intermolecular, Inc. (“Intermolecular”) in May 2013.

“We delivered solid third-quarter financial results and continued to refine the go-to-market approach we implemented at the beginning of this year. This approach along with the previously announced corporate-wide restructuring will allow us to deliver stronger results in the future,” said Accelrys President and CEO Max Carnecchia. “The launch of groundbreaking new products and the addition of ChemSW further expand our portfolio across the entire product lifecycle. We are confident that the market opportunity remains strong and that we are uniquely positioned to create a world-class software company in the scientific innovation lifecycle management category.”

To view an unabridged version of this press release, visit: http://files.shareholder.com/downloads/ABEA-58VOPE/2753257542x0x701511/91e9ffea-2ef1-459c-b3f0-6bbe742322d/ACCL_Q3_13_Press_Release_FINAL.pdf

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Agilent Technologies to Release Fourth-Quarter Fiscal Year 2013 Financial Results

31 October 2013

Agilent Technologies Inc. will release fourth-quarter fiscal 2013 financial results after the stock market closes on Nov. 14. The company will host a live webcast of its investor conference call in listen-only mode.

Date: Thursday, Nov. 14

Time: 1:30 p.m. PST

Web access: www.investor.agilent.com

Listeners may log on and select "Q4 2013 Agilent Technologies Inc. Earnings Conference Call" in the "News & Events - Calendar of Events" section. The webcast will remain on the company site for 90 days.

In addition, a telephone replay of the conference call will be available at approximately 4:30 p.m. PST,

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Nov. 14 through Nov. 21, by dialing +1 855 859 2056 (or +1 404 537 3406 from outside the United States) and entering pass code 75992438.

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Autodesk Extends Invitation to Join Financial Results Conference Call

1 November 2013

[Autodesk](#), Inc. today announced that it will broadcast its third quarter fiscal 2014 financial results conference call live via its website, Thursday, November 21, 2013 at 2:00 p.m. Pacific Time. Autodesk will host a live webcast call at www.autodesk.com/investors. An audio replay webcast and podcast will also be available after 4:00 p.m. Pacific Time on our website at www.autodesk.com/investors. For more information, please call Autodesk Investor Relations at 415-507-6705.

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Cimatron's Third Quarter 2013 Results Release Scheduled for November 12th, 2013

30 October 2013

Cimatron Limited announced today that it will be releasing its third quarter financial results on Tuesday, November 12th, 2013, before the US markets open.

Cimatron's management will host a conference call that same day, at 9:00am EST, 16:00 Israel time. On the call, management will review and discuss the results, and will also be available to answer questions by investors.

To participate, please call one of the following teleconferencing numbers. Please begin placing your call at least 5 minutes before the conference call commences.

USA: +1-888-668-9141

International: +972-3-9180610

Israel: 03-9180610

Or those unable to listen to the live call, a recording of the call will be available from the day after the call under the investor relations section of Cimatron's website, at: www.cimatron.com.

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Lectra: First Nine Months of 2013: Growth in Revenues, Income from Operations and Net Income

30 October 2013

- Revenues: €150 million (+5%)*
- Income from operations before non-recurring items: €13.2 million (+6%)*
- Net income: €18.8 million
- Free cash flow: €16 million
- Net cash: €24.9 million

* like-for-like

Today, Lectra's Board of Directors, chaired by André Harari, reviewed the unaudited consolidated financial statements for the third quarter and first nine months of 2013. (Unless stated otherwise, comparisons between 2013 and 2012 are like-for-like.)

Q3 2013: Very Good Performance

Implementing the Transformation Plan

At the end of 2011, and despite the prevailing economic conditions, the company decided to accelerate its transformation over the period to 2015, giving precedence to its long-term strategy over short-term profitability.

This far-reaching plan, representing cumulative investments for the future of €50 million over the period 2012-2015, fully expensed over the period, while their benefits will only be felt progressively. It comprises three components: a major recruitment plan devoted to strengthening sales and marketing teams, which will grow from 220 people at the end of 2011 to 330, and from 16% to 22% of the total workforce, with a doubling of the number of sales people; the addition of 40 software R&D engineers in Bordeaux-Cestas (France), bringing the total R&D workforce to 260 engineers; finally, accelerated investment in marketing.

Execution of the plan continued in Q3. Since January 1, 2013, there have been more than 110 recruitments, bringing the total of new hires since the end of 2011 to close to 230. The main priorities, in bolstering sales and marketing teams, have been North America, China, and the Germany and Eastern Europe region. Meanwhile, 170 people have left the Group under the transformation plan.

Growth in Orders, Revenues and Income from Operations

Despite persistently sluggish business conditions, orders for new software licenses and CAD/CAM equipment (€19.4 million) were up 4% compared with Q3 2012. They amounted to €18.7 million in Q2 2013 and to €16.2 million in Q1.

Revenues (€50.8 million) were up 11% (+6% at actual exchange rates). Revenues from new systems sales (€21.2 million) increased by 15% and recurring revenues (€29.6 million) by 8%. This confirmation

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of the acceleration of the growth in recurring revenues (in fiscal 2012, this growth amounted to 3%) is a remarkable performance and deserves special mention.

Net income (€4.2 million) was up by €0.5 million (+12%) at actual exchange rates.

To view an unabridged version of this press release, visit: http://www.lectra.com/binaries/Lectra_PressRelease_Q3_2013_tcm31-223303.pdf

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Trimble Reports Third Quarter 2013 Revenue of \$556.5 Million, GAAP EPS of \$0.21 and Non-GAAP EPS of \$0.39

31 October 2013

Trimble announced third quarter 2013 revenue of \$556.5 million, up 10 percent as compared to the third quarter of 2012.

GAAP operating income for the third quarter of 2013 was \$63.0 million, or 11.3 percent of revenue, as compared to 12.6 percent of revenue in the third quarter of 2012.

GAAP net income for the third quarter of 2013 was \$54.5 million, up 2 percent as compared to the third quarter of 2012. Diluted GAAP earnings per share in the third quarter of 2013 were \$0.21, flat with the third quarter of 2012. The tax rate for the third quarter of 2013 was 14 percent as compared to 19 percent in the third quarter of 2012.

Non-GAAP operating income for the third quarter of 2013 was \$118.2 million, or 21.2 percent of revenue, compared to \$105.3 million, or 20.9 percent of revenue, in the third quarter of 2012.

Non-GAAP net income of \$101.9 million for the third quarter of 2013 was up 17 percent as compared to the third quarter of 2012. Diluted non-GAAP earnings per share were \$0.39 in the third quarter of 2013, as compared to diluted non-GAAP earnings per share of \$0.34 in the third quarter of 2012.

Third quarter 2013 non-GAAP results included the following adjustments as compared to the third quarter of 2012:

- Restructuring expense of \$39 thousand as compared to \$361 thousand;
- Amortization of intangibles of \$41.6 million as compared to \$31.4 million;
- Stock-based compensation expense of \$8.9 million as compared to \$7.7 million;
- Acquisition-related inventory step-up charge of \$378 thousand as compared to \$547 thousand;
- Acquisition and divestiture costs of \$2.9 million as compared to \$1.5 million;

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- Litigation settlement of \$1.3 million as compared to no cost in the third quarter of 2012.

"While below our projected long-term growth rate, our third quarter revenue was consistent with our guidance for the quarter. Although the worldwide economic environment is expected to remain challenging into 2014 and a constraint to robust growth, we did see encouraging signs in the quarter, particularly in survey instruments, building construction and agriculture," said Steven W. Berglund, Trimble's president and chief executive officer. "These indicators support our view that our organic growth will step up in 2014 from the levels we have seen in 2013."

To view an unabridged version of this press release, visit: <http://www.trimble.com/news/release.aspx?id=103113a>

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Implementation Investments

Daikin Applied Achieves Multimillion Dollar Performance Gains on New HVAC Compressor Designs via 3D Inverse Design

29 October 2013

[Advanced Design Technology](#) (ADT) today announced that its customer, [Daikin Applied](#) of Minneapolis, Minn., a Fortune 1000 company and one of the largest heating, ventilation, air conditioning (HVAC), and refrigeration companies in the world, is developing a new, ultra-efficient compressor design—potentially capable of achieving multimillion dollar performance gains—by using TURBOdesign Suite. Turbomachinery design engineers and original equipment manufacturers (OEMs) working to achieve higher performance levels to meet new U.S. and international efficiency standards can take advantage of the first commercially available 3D inverse design software system, TURBOdesign Suite.

"In general, one point of efficiency gain equates to about \$1 million (U.S.) of profit," says Guy Phuong, Development Engineer at Daikin Applied. "Daikin Applied's target performance gain for this project using the TURBOdesign Suite software is 2.5 points of efficiency gain. We already have achieved more than a two-point compressor efficiency improvement."

As any building operations manager knows, the HVAC system represents a large percentage of a building's energy use. Since the 1980s, manufacturers of HVAC equipment like Daikin Applied have worked to make their systems more efficient. This was originally driven by rising energy costs and therefore customer demand. More recently, it was mandated by governmental standards like those set by the [U.S. Environmental Protection Agency Engine Testing Regulations](#) and [Europe's Ecodesign Directive](#).

There are several methods for making HVAC systems that meet or exceed new standards, including

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making individual components such as air conditioning system compressors more efficient.

“Our 3D inverse design optimization technology provides innovative solutions while reducing development time and costs,” said Professor Mehrdad Zangeneh, founder and managing director of ADT. “By using the TURBOdesign Suite, Daikin Applied engineers were able to apply the 3D inverse design approach to directly use knowledge of detailed fluid dynamics, as provided by computational fluid dynamics (CFD) and detailed measurements, to arrive at a breakthrough solution that met efficiency goals.”

In the 3D inverse design approach enabled by the TURBOdesign Suite, the blade geometry is computed for a given pressure or loading distribution. Since 3D pressure distribution controls the viscous behavior of the flow, by controlling the 3D pressure field, it is possible to directly use the detailed information provided by CFD solutions to arrive at a choice of optimum loading and control particular sources of performance loss in turbomachines.

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Kenneth Cole Productions Selects Gerber Technology's YuniquePLM to Manage its Footwear and Apparel Lines

30 October 2013

Kenneth Cole Productions Inc., the iconic fashion house known for its footwear, has implemented Gerber Technology's [YuniquePLM](#)TM software for its men's, women's, and children's apparel and footwear lines. Gerber's Yunique Solutions business unit is helping Kenneth Cole manage its broad product portfolio by ensuring its many teams are able to collaborate and communicate optimally to increase speed and efficiency.

Kenneth Cole Productions is best known for its extensive footwear line; after all, the footwear business is how Kenneth Cole got its start. In 1982, rather than take a booth at the Hilton Hotel during the New York shoe show, Kenneth sought a creative alternative. He reached out to the Mayor's office to see about parking a trailer on the street for an extended period of time and found out that it could be done only if you were a utility company servicing the streets, or a production company shooting a film. So, that day, he changed the name of his company from Kenneth Cole, Inc. to Kenneth Cole Productions, Inc., hired a cameraman to shoot the film *The Birth of A Shoe Company*, and parked a 40-foot trailer in front of the Hilton Hotel. In three days he received orders for 40,000 pairs of shoes, many from the top stores in the country. Today, the footwear business comprises a third of its revenue. With seven clothing, accessories, and footwear lines, wholesale operations in eight different countries, and 6,000 department and specialty stores, effective communication internally, and between suppliers and vendors is undeniably paramount.

In order to manage an operation of this size and diversity, it's important to have everyone on the same page,” says Arthur Bargonetti, senior vice president of Operations, Kenneth Cole. “With YuniquePLM, we can avoid the holdbacks of small errors that snowball into larger ones due to miscommunication

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between our designers, sourcing teams and international vendors by having all of the information in a single location.”

Bill Brewster, vice president of Global Sales and Marketing for Yunique Solutions said, “We are thrilled to work with Kenneth Cole, one of the most prominent fashion brands in the industry. For a company with so many product lines to keep track of, having the right information in a single location lends itself to making the best choice regarding everything from selecting raw materials, changing styles, or communicating a request with a vendor.” Brewster added, “The new additions in V5 of YuniquePLM makes life easier for designers, suppliers and vendors with added functions such as mobility, integration with Adobe® and expanded sourcing and networking with partners.”

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Nicole Miller Rolls out NGC's Fashion PLM and SCM Software

29 October 2013

NGC Software today announced that contemporary fashion designer Nicole Miller has rolled out NGC's [fashion PLM](#) and Global Sourcing/Supply Chain Management (SCM) software.

Headquartered in New York City, New York, Nicole Miller is one of the most innovative brands in high-end women's apparel and accessories. With a longstanding tradition of high-quality clothing, Nicole Miller sought a new software solution to streamline its design and production processes, reduce turn-around time, maintain the brand's high quality standards, and ensure close collaboration between its design team and global supply chain. The selection of NGC's fashion software has provided Nicole Miller with a strategic platform for achieving all these goals.

NGC's PLM/SCM solution fully integrates fashion PLM and Supply Chain Management into a single, collaborative platform that standardizes all processes for PLM, SCM and Global Sourcing. NGC's software enables Nicole Miller to optimize lead times, drive down costs, maximize profit opportunities, and respond quickly to fast-changing consumer preferences.

“We talked to a number of leading PLM providers, but NGC appeared as the best choice, based on their extensive knowledge of the fashion industry and the strength of NGC's combined PLM/SCM solution,” said Estelle Rose, CFO of Nicole Miller. “NGC provided expert advice at every step of the implementation process, and we're already seeing positive results with the software.”

“Nicole Miller is one of the most beloved names in contemporary women's fashion,” said Mark Burstein, president of sales, marketing and R&D, NGC. “Nicole Miller has a superior reputation for innovative, high-quality fashion designs, and we are proud to be working with their team to help streamline their operations.”

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Wayne Brothers Selects Tekla to Reduce Risk, Drive Value in Concrete Construction

30 October 2013

[Tekla](#) announced that its leading software, Tekla Structures, has been selected by Wayne Brothers to help it deliver higher quality, better coordinated work. [Wayne Brothers](#) is one of the most progressive and technology-savvy commercial concrete contractors specializing in negotiated private projects, where its level of service, quality and safety adds value to its client's projects, facilities and properties. Tekla is hosting a free [webinar](#) on Wednesday, November 6, 2013 at 12pm ET during which Wayne Brothers will share more information about why they embraced change and the value concrete contractors get from Tekla.

Firmly believing in the value of technology, Wayne Brothers began looking at 3D Modeling software as a way to reduce risk even further by enabling them to respond quicker to client demands, see concrete and rebar details not visible on 2D drawings, and identify potential issues such as omission and errors in design. Today, Wayne Brothers leverages Tekla Structures, not only to eliminate errors, but also as a way to add value and stay competitive.

With Tekla Structures, Wayne Brothers is specifically able to:

- model its portion of a project during the preconstruction phase to identify and resolve any potential issues *well before construction begins*
- easily import and export models and information created in other BIM (Building Information Modeling) and CAD applications
- leverage its preconstruction model to easily develop accurate client estimates and faster sharing of the model with rebar vendors
- quickly update models within a few hours of clients submitting a drawing change and encourage frequent model checking so when construction begins, there is the highest levels of confidence that it is highly integrated and accurate

"With Tekla, we've reduced the time from the award to the first rebar submittal by 50 percent, allowing us to meet the most demanding schedules," said Daniel Wayne, CM-BIM, Wayne Brothers' Director of Technology. "This gives us a clear competitive edge because we can respond quicker with more accuracy and provide a higher level of support to our clients."

Tekla also allows Wayne Brothers to work closely with rebar fabricators that are using Tekla's advanced rebar detailing capabilities to model each piece of rebar. During the first project modeled in Tekla—a 1 million sq. ft. industrial complex—99 percent of the rebar was fabricated correctly.

"Wayne Brothers is a great example of a company that has not only embraced BIM for the obvious efficiency reasons, but has also made it an integral part of the way they do business and what they are

able to offer clients," said Alistair Wells, business manager, concrete, for Tekla Inc. "Like many companies that we work with, Wayne Brothers started by implementing Tekla Structures to improve process and reduce errors, but once they began using it and seeing the value, were able to further integrate it into the business and drive value in new ways."

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Product News

3D Systems Launches Cubify Design Advanced Consumer Modeling Software

28 October 2013

[3D Systems](#) announced today the immediate availability of [Cubify® Design™](#), a powerful parametric CAD tool built on the same foundational skills mastered in entry-level Cubify Invent and completes the advanced 3D printing toolbox for CubeX users. Cubify Design is ideal for complex projects requiring real-world functionality and accuracy. When used in combination with Cubify Sculpt's organic modeling and mash up capabilities, users will discover endless potential for their dynamic ideas. Cubify Design comes with a 14-day free trial, is priced at \$199 and available now on [Cubify](#), the online destination for all things 3D printing.

Cubify Design packs a powerful feature set that includes the ability to create assemblies allowing for interaction and motion within parts of a design. Users can view models as they will appear in the physical world with accuracy and full motion. Cubify Design includes 2D rendering features making it simple to share drawings when co-creating with others. The software accepts a variety of file formats and exports additional file formats including STL for direct plugin into Cube or CubeX software, making designs 3D print ready. 3D Systems plans to fully integrate Cubify Design into its expanding Cubify platform and to its award winning Cube and CubeX 3D printer experiences with direct plugins.

"Cubify Design enhances the 3D consumer modeling tools paradigm, making complex 3D design affordable and powerful," said Rajeev Kulkarni, Vice President & General Manager Consumer Products for 3D Systems, "Our latest addition to the growing Cubify software suite sets the stage for our advanced CubeX users to acquire even more skills as they create ever more complex and impactful printables."

Learn more about Cubify's design offerings, download a [free trial](#) of Cubify Design and watch the [tutorial videos](#) today.

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Altium Introduces TASKING Software Platform Builder for ARM Cortex-M

28 October 2013

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[Altium Limited](#) announces its Software Platform, delivering ultra rapid prototyping and development for ARM Cortex-M based microcontrollers, at an unparalleled attractive cost level. The Software Platform - which Altium will be showcasing at the ARM TechCon Conference - includes a comprehensive range of middleware functionalities, such as an RTOS, CAN, USB, TCP/IP, I2C, HTTP(S), file systems, graphical user interface, and touch panel control.

Building an application with the new Software Platform is both simple and fast. Through a few mouse clicks within the Eclipse based IDE, the developer can put the middleware framework of an application together. After selecting the desired middleware options and the Cortex-M based microcontroller for the project, the Software Platform generates the code that delivers the required functionality. All that is left for the developer is the design of the application software, which then is easily integrated with the generated code.

The Software Platform is not only straightforward to use, but it also enables the developer to switch the Cortex-M microcontroller easily, both within the family of a particular semiconductor vendor as well as across vendors. The Software Builder takes care of collecting the middleware functionalities and the low-level drivers for the microcontroller, after which the code framework is generated and then compiled with the application code.

The Software Builder is seamlessly integrated into the TASKING VX-toolset, which includes a C/C++ compiler, debugger and an Eclipse based IDE. The complete offering is very competitively priced, with all Software Platform functionalities, including the software development tools made available at the cost of a traditional development toolset.

“Altium is making a huge step forward in delivering a comprehensive ARM Cortex-M development suite,” says Harm-Andre Verhoef, TASKING Product Manager at Altium. “The ARM developer significantly saves on cost of development tools and middleware functionalities, and also on development time. Putting an embedded application together is a breeze through our single vendor middleware offering, with guaranteed compatibility with our compiler.”

Altium will show the new Software Platform with its TASKING C compiler suite for Cortex-M at the ARM TechCon Conference in Santa Clara, October 29 to 31, at booth # 522. It will be made available to the market through the upcoming release of the TASKING VX-toolset for ARM later this year and it will be delivered with the Premium Edition bundle license. The first release of the Software Builder provides support for the STMicroelectronics STM32 series. Pricing starts at USD 1,795 for the TASKING VX-toolset Standard Edition and USD 2,995 for the Premium Edition. Existing customers with a maintenance contract will get the update for free.

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Arena Solutions Launches Four New Products with Fall 2013 Release

29 October 2013

Arena introduces four unique new solutions — [Arena Demand](#), [Arena Projects](#), [Arena Exchange](#), and [Arena API](#) — as part of the Fall 2013 Release; individually, these applications allow manufacturers to aggregate material demand, project manage with greater visibility, securely share comprehensive manufacturing build packages across the supply chain team, and integrate their business systems with BOMControl; collectively, these products represent a paradigm shift in how manufacturers embrace PLM solutions to transform their manufacturing operations and maximize business results.

“This Fall 2013 release delivers fundamentally new and unique PLM and Supply Chain solutions to all our highly innovative customers,” says Craig Livingston, Arena CEO. “The four solutions that are incorporated in this release address some of the most important manufacturing challenges of our time, giving our customers more tools to succeed in an increasingly competitive global marketplace.”

The Fall 2013 release has already received accolades from PLM industry experts.

“The Fall 2013 release is a giant leap in Arena’s product roadmap that both delivers a distinct competitive advantage to manufacturers as well as differentiates Arena from other PLM providers,” says Shaun Snapp, consultant and researcher at SCM Focus. And according to Chad Jackson, Principal Analyst of Lifecycle Insights, “Arena (Exchange) is an evolutionary step from traditional sharing spaces for PLM systems.”

The Fall 2013 release follows on the recent news that Arena was ranked as both a “[Top Ten PLM Solution Provider](#)” and a “[Top Five Supply Chain Collaboration Software](#).” Arena was also recognized as the most affordable solution in both reports. Here is an overview of the four new and unique products introduced within the Fall 2013 release:

- Arena Demand — provides manufacturers with part visibility to calculate aggregated component needs for their entire product portfolio so they can better negotiate with their suppliers and contract manufacturers
- Arena Projects — connects the project schedule directly to the product record to increase visibility and accountability for new product introductions, quality improvement processes, and cost reduction projects
- Arena Exchange — offers OEMs a secure, flexible and traceable environment for collaboration with multiple users at different supplier levels throughout their global supply chain
- Arena API — expands the information value chain captured in Arena PLM by allowing customers to develop lightweight and flexible integrations from their enterprise application infrastructure to Arena PLM

Steve Chalgren, Arena’s Vice President of Product Management and Strategy, lists “improved visibility” as one of the themes and key benefits of the Fall 2013 release.

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“When OEMs outsource their manufacturing, they outsource their material planning, leaving them blind to the total quantity of parts they'll buy over the next year,” says Chalgren. “Arena Demand provides OEMs with parts visibility across product lines to calculate aggregate material demand to better negotiate with their suppliers. Similarly, Arena Projects empowers OEM's with greater visibility so they can simply see what is going on in all their development teams.”

Another theme of the Fall 2013 release is the importance of securely sharing product data that, according to Chalgren, applies to both the exchange of information across supply chain teams as well as transfer of data from Arena PLM to other business systems. “While OEMs want efficient supply chain approval processes, they may not want to give more than just their primary supply chain contacts access to their PLM system,” says Chalgren, “Arena Exchange allows OEMs using any PLM system to forward and share build packages across the supply chain without burdensome user provisioning, enabling more secure and robust team collaboration, resulting better new product introductions; similarly, with Arena API, customers can open a portal from their ERP or other business system directly to access BOMControl data.”

Arena's PLM solutions helps manufacturers of all sizes realize the benefit of manufacturing in the cloud by providing customers up to 70% reduction in ECO cycle times and a 20% reduction in time to market. Arena helped Sierra Wireless streamline its supply chain processes so dramatically; they were able to release 173 new products in the first year.

While these metrics are compelling, the measurable impact of Arena's cloud-based PLM solution is, according to Kent Killmer, Arena Vice President of Marketing, poised to become even more eye opening; he believes the introduction of these four new products will generate increasingly compelling ROI metrics for manufacturers considering an investment in PLM rather than their traditional use of excel worksheets, emails and faxes.

“With the expansion of the Arena PLM product base, we continue to attract larger global enterprise customers. As testament to that claim, Q3 2013 average sales price was a full 43% higher than Q3 2012,” says Killmer. “Savvy executives wanting to experience savings of consequence for even the most robust enterprise challenges will be bringing the microscope down on Arena – in some cases discovering not only significant savings – but more features as well.”

To see more information about all the enhancements and new features in the Fall 2013 release, please visit <http://www.arenasolutions.com/products/bomcontrol/whats-new-fall-2013>.

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ASCEN Releases KOMPAS-3D V14, Most Powerful Version Ever

29 October 2013

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ASCON Group is pleased to release KOMPAS-3D V14. This professional computer-aided design system for mechanical engineers is distinguished by its powerful features for 3D and 2D design processes, along with a user-friendly interface, easy to learn functions, and flexible collaboration with third-party software – all of which are enhanced by its reasonable price.

The new release of KOMPAS-3D features more than 100 enhancements to increase the productivity of users. V14 does this through faster operations, improved usability, and simplified product development. The result is fewer errors made during the design-to-product development process.

ASCON is excited to announce the highlights of KOMPAS-3D V14:

- Designs and edits using direct variation modeling
- Displays and directly edits dimension values of selected elements
- Store revisions in models
- Recalculates models based on tolerances
- Enhances 3D arrays
- Improves the hole wizard
- Adds to the KOMPAS-3D suite

Direct Variation Modeling

KOMPAS-3D V14 allows users to directly edit models in variation mode using geometrical and dimensional constraints. Direct variation modeling makes it possible to modify 3D models without construction history, including ones imported from other CAD systems. This new form of easy and flexible editing means that users can work in KOMPAS-3D with – or without – history, as they prefer.

Dimensions of Selected Elements

KOMPAS-3D R14 now displays linear and angular values of numeric parameters on the screen as users create and edit elements. To change the value of a parameter, users simply edit the value of the dimension.

Revisions Stored in Models

KOMPAS-3D R14 adds the ability to store all revisions in the model. This means users can now work with all versions the model underwent. Revisions are stored in the new Versions tab of the Design Tree and in the Document Manager.

Model Tolerance Calculations

KOMPAS-3D R14 now allows users to recalculate the geometry of models using the tolerance field. This means that users can change models using defined tolerances, such as upper or lower limits, middle of the tolerance range, or with a factor.

3D Array Enhancements

KOMPAS-3D R14 enhances arrays with linked tables to make them more flexible. In all arrays, users can now create tables of editable variables that change values in array instances. The values in the table create different sizes of elements in an array.

Hole Wizard Improvements

KOMPAS-3D R14 adds commands to create a rich variety of hole types:

- Simple holes
- Holes with countersinks
- Holes with counterbores
- Holes with countersinks and counterbores
- Conical holes

Additions to the KOMPAS-3D Suite

KOMPAS-3D R14 expands its value through the addition these feature-filled add-ons:

- Materials Library applies physical and mechanical material properties to 3D models.
- **Cable 3D** designs electric harnesses and cables in KOMPAS-3D.
- **KOMPAS-VDM** directly edits models parametrically using geometric and dimensional constraints
- **CAD Conversion Tool** supports native data formats of all primary MCAD systems, including Dassault Systemes CATIA and SolidWorks, Siemens PLM NX, PTC Pro/Engineer, and Autodesk Inventor. This library is based on technology from CT CoreTechnologie and requires a license to be purchased separately).

Pricing and Availability

KOMPAS-3D V14 is available now through ASCON's worldwide network of value added resellers. Please contact them for details and pricing. To locate the one nearest to your region, please visit ascon.net/en/main/partners.

To try out the new functions, download the 30-day free trial of KOMPAS-3D V14 from ascon.net/en/download/kompas.

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AVEVA Continues its Future of Plant Design Initiative by Launching AVEVA E3D Insight

31 October 2013

AVEVA today launched of AVEVA E3D Insight, the Windows 8.1 app that enables project decision

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makers in the power, process plant and mining industries to view and approve AVEVA Everything3D (AVEVA E3D) designs from a mobile tablet device. Developed in collaboration with Microsoft, AVEVA E3D Insight demonstrates AVEVA's commitment to anticipating and meeting changing customer requirements by offering the ability to inspect, comment upon, and approve designs at any time, from anywhere around the world.

AVEVA E3D Insight streamlines the design review and approval process to support Lean business practices. It maximises project efficiency by providing authorised users with direct access to the live AVEVA E3D design model, regardless of their location, 24 hours a day.

“We are thrilled to be partnering with Microsoft to support their strategy of ‘devices and services’, and the new wave of touch-enabled Windows 8.1 devices are providing exciting opportunities for both EPC and Owner Operator customers alike,” said Dave Wheeldon, Chief Technology Officer and Head of Engineering Design & Systems, AVEVA.

“AVEVA E3D Insight enables our customers to improve their business practices, to collaborate more effectively across their projects and to eliminate the delays and decision bottlenecks caused by critical stakeholders being out of the office. In short, it gives them the tools they need to improve their decision-making. Whether reviewing project progress or discussing specific design issues, the new Windows 8.1 app from AVEVA provides global real-time direct access to AVEVA E3D information.”

AVEVA E3D Insight enables users on the move to:

- Visualise – The user can see the AVEVA E3D model and its associated information quickly and clearly.
- Inspect – The user can inspect, manipulate and measure the model to check for such potentially critical issues as object clashes, accessibility and non-compliance with design standards.
- Comment – The user can liaise directly with the project's design team and leave a permanent record of feedback in the AVEVA E3D database itself. No more collating of comments is required and key decisions are recorded.
- Approve – Authorised users can set model status to customer defined approval levels.

For more information and to download related business papers visit the [‘The Future of Plant Design’ website](#).

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Bentley to ‘Complete Its Reach’ in Software Services

28 October 2013

Bentley Systems, Incorporated, today announced that *Bentley CONNECT Services*, to be successively extended to all of Bentley's software subscribers to complete the reach of project and asset information

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mobility, will be fully provisioned through the Windows Azure cloud from Microsoft Corp. Windows Azure will unify Bentley's own software and support enterprise, making it accessible to add value directly in the "live" context of users' work, through Bentley CONNECT *SELECT*services for software administration and technical support and Bentley CONNECT *LEARN*services. In addition, it will underlie an incremental business model – enabling Bentley to complete its reach in "software as services" – through Bentley CONNECT *MANAGE*services.

Speaking here at [The Year in Infrastructure 2013 Conference](#) to the hundreds of owner-operator and contractor thought leaders gathered in London, CEO Greg Bentley reviewed the effective strategies emerging this year – especially among the hundreds of nominated and over 60 jury-selected finalist projects for the prestigious *Be Inspired* Awards – to take advantage of *information mobility* for better performance of infrastructure projects and assets. By now comprehensively "connecting through cloud services," he said, projects could effectively, securely, and immediately augment the information mobility returns on their successful existing *internal* collaboration initiatives.

To help achieve this, *Bentley CONNECT* can span users' project environments across participants, firewalls, supply chains, joint ventures, and disparate vendors' software, as well as across Bentley's information modeling application portfolio, Bentley's *ProjectWise* collaboration servers, Bentley's *AssetWise* servers for operations and maintenance, and Bentley's growing mobile apps portfolio. Cloud services being previewed for users include Bentley CONNECT *Project Sharing Services*, Bentley CONNECT *i-model Validation Services*, Bentley CONNECT *Content Services*, and Bentley CONNECT *Scenario Services*.

Bentley's decision to choose Windows Azure as the technical foundation of *Bentley CONNECT* allows it to extend its proven capabilities with new services uniquely enabled by an always-on "cloud." By embracing Windows Azure Platform-as-a-Service and Infrastructure Services, Bentley is aligned with Microsoft's commitment to hybrid environments, comprising cloud and on-premises computing – a crucial factor in meeting the unique requirements of organizations that design, build, and operate the world's infrastructure. In addition, the global footprint of Windows Azure is a major advantage as Bentley users are key contributors to projects worldwide.

Bentley Senior Vice President Alan Kiraly said, "The Windows Azure team has been very collaborative and supportive. We have been impressed with the pace at which Microsoft is adding new data centers and Windows Azure core services in areas such as security, notification, data replication, data synchronization, and big data analytics. We can leverage each of these immediately in our application-level services to further facilitate and streamline our users' workflows in collaborative and distributed environments."

"Windows Azure is a scalable and secure cloud platform that provides the opportunity to integrate software and drive company collaboration," said Dewey Forrester, Microsoft Senior Director. "Bentley has capitalized on the benefits of Windows Azure to extend its current capabilities and offerings to its customers around the globe via the cloud."

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Bricsys Announces BricsCAD V14

29 October 2013

Bricsys today announced the immediate availability of BricsCAD V14 for Windows. This new release extends BricsCAD with a refresh of the user interface, major enhancements to the intelligent Quad cursor, an optional suite for 3D interoperability, new functions for generating associative 2D and 3D views and sections from 3D models, and sheet metal design for the mechanical CAD market. It is available in 32-bit and 64-bit versions. Introductory movies for the new functionality can be found [here](#).

”I’m very proud of the distributed development teams who worked incredibly hard to bring so much new functionality into the V14 release of BricsCAD,” said Erik De Keyser, Bricsys CEO. “With V14 we continue to deliver on our promise to unify 2D CAD and 3D direct modeling for dwg.”

Since the introduction of direct modeling functions in BricsCAD V12, the function most requested by users is the ability to generate associative 2D and 3D drawing views from 3D models. With BricsCAD V14, Bricsys introduces new commands to automatically generate orthographic, isometric, and section views. The views are updated automatically when the 3D model changes.

The new sheet metal design capabilities in BricsCAD create sheet metal parts by extruding 2D profiles and then adding new flanges through pulled edges. Bends, junctions and reliefs are added automatically. All direct modeling operations and 3D constraints can be applied to editing sheet metal parts. To output designs to computer-aided manufacturing (CAM) systems, sheet metal parts can be unfolded automatically and then exported as 2D .dwg or 2D .dxf files.

BricsCAD Communicator is an optional plug-in for the Pro and Platinum editions of BricsCAD that imports and exports 3D data between major CAD formats. Its high quality translations facilitate the re-use of 3D CAD data, thereby improving productivity and reducing project costs. Supported formats include neutral (e.g. STEP and IGES), native MCAD (e.g. CATIA, Inventor, SolidWorks) and kernel specific formats.

V14 gives BricsCAD a fresh new look and feel with re-designed icons presenting a clean-looking interface. New commands, such as AddSelected and SelectSimilar, together with substantial improvements to the context-sensitive intelligent Quad cursor (patents pending), provide users double-digit productivity improvements by offering most-used commands right at the cursor and reducing clicks to a minimum.

Additional new functions in BricsCAD V14 include the following enhancements:

- Annotative styles and entities supported by a suite of related commands, variables, and extensions
- Parameters and formulas applied to 3D constraints

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- New graphical bar for navigating through more than 30,000 3D standard parts easily
- New Helix and Sweep commands for 3D modeling
- New QDim, MLeader, ConvertPoly, and HatchEdit commands for 2D drafting
- Support for 3Dconnexion 3D mice
- MText editor with integrated IME facilitates entering Asian text
- New licensing engine for stand-alone, network, and volume licenses

Third Party Solutions

BricsCAD is both a powerful CAD software package and a full-fledged CAD development platform, on which application developers create value-added solutions. A worldwide network of more than 800 application developers is using APIs of the BricsCAD platform to develop value-added solutions targeted at specific industries and disciplines. The APIs include LISP, DCL, VBA/COM, .NET, and BRX. More than 300 solutions across twenty categories are available through the eStore Catalog on the Bricsys website, with more coming online each month.

Available Now

All English language versions of the BricsCAD V14 software, including the no-charge 30-day trial version, are available for immediate delivery. They can be downloaded from the Bricsys website or obtained from BricsCAD sales partners in more than 70 countries worldwide. Translated versions in 17 languages will be made available in the coming weeks.

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Delcam Speeds Set-up and Inspection in new PowerINSPECT Software

25 October 2013

Delcam has released the 2013 R2 version of its PowerINSPECT metrology software, which offers faster programming and inspection, plus even easier-to-read reports. It includes a new method for automated inspection of edges of parts, improved display of deviations, support for a wider range of geometric features, more flexible simulation, and additional dimensioning options for radial features.

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

The new adaptive method for edge inspection on CNC CMMs provides improved measurement of thin-walled, flexible components, including sheet-metal pressings such as automotive body panels, thermoformed plastic parts and composite parts. It uses a two-touch measurement sequence. The first touch is made on the surface of the part close to the edge being measured. This gives the true position of

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the surface and the related edge so that a second touch can be made on the edge with the centre of the probe.

The two-touch approach allows accurate, automated inspection of edges, even on components that have been distorted relative to the nominal CAD geometry. As with other PowerINSPECT options, the new method can be programmed, simulated and edited offline. During measurement, PowerINSPECT will adapt the probe paths for the edge points automatically, according to the actual position of the measured edge of the part.

Reports from PowerINSPECT have been made even easier to understand with new options to display the deviation of probed points from their nominal positions. If PowerINSPECT's coloured "confetti" is being used, the deviation of each probed point can be shown alongside its disc. Alternatively, if the results are shown as deviation lines, the value can be displayed next to the deviation arrow. In both cases, the display of the values makes it easier to identify the seriousness of the deviation for each point and so to highlight the location of any major problems.

The range of geometric features that can be measured with PowerINSPECT has been extended with the addition of new construction options. These include an ellipse feature and two new torus-based circular intersections that can help in the measurement of tubing and pipework, engine ports and casings for turbomachinery. In addition, a line can now be created at a fixed distance parallel to a reference line and then be used to check clearances.

New options have also been added for the measurement of full or partial radial features. PowerINSPECT can now display the major and minor circles when dimensioning a torus, display the radius or diameter when measuring a cylinder, and display the half-angle of a cone.

Finally, the simulation of all inspection options in PowerINSPECT has been made more flexible with the ability to speed up or slow down the progress of the simulation while it is running. This allows any moves that come close to a collision to be checked in more detail by running the simulation at a slower speed. Similarly, if a change is made to an existing routine, the user can run the unchanged sections of the inspection at high speed and only check the new moves in detail.

For further information on Delcam's PowerINSPECT software, please visit www.powerinspect.com.

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Delcam Upgrades Dental Design Software

1 November 2013

Delcam has launched a major upgrade to its DentCAD software for the design of all types of dental restoration, including crowns, bridges, customised abutments and dental bars. The new release includes

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improvements to the shaping of restorations such as crowns and bridges, enhancements to the design of dental bars and more flexible tools for the editing of abutments. DentCAD 2014 also incorporates four new libraries of implants, from Bionumeric, Denracle, MIS and NT Trading.

DentCAD is an "open" design system that can use data from all leading dental scanning systems to create restorations, and output the designs to any machining software.

The improvements to the shaping tools in DentCAD build on the high-definition method for modelling introduced last year to give much better representation of fine details such as cusps and fissures on the tooth. The new methods allow much more dynamic editing, with greater control over the final shape. In addition, full undo and redo is now available on all commands, and a new option has been added giving the ability to restore the original shape in any area of the design.

Another key area for development has been dental bar design. An improved user interface has been added to give easier manipulation of the shape, dimensions and position of the bar, and it is now possible to use multiple cross-sections in the same bar.

New options include the ability to edit the top shape of the abutment and to add a shoulder to the abutment. Improvements to the existing abutment editing tools include options to add secondary draft to the side wall of the abutment and to flatten the top of the abutment.

DentCAD has benefited from developments in Delcam's DentSCAN scanner that allow accurate scanning of complex superstructure wax-ups in a single operation. The scan data can be imported into DentCAD as one file and converted into a precise duplicate model for machining.

For further information on Delcam's dental software, please visit www.dental-cadcam.com.

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Granta Continues Launches GRANTA MI:Materials Gateway™ Version 2.0

29 October 2013

Granta Design has just launched a second generation of the GRANTA MI:Materials Gateway™ integration technology, which provides quick, traceable access to materials data and applications within CAD, CAE and PLM software. MI:Materials Gateway is now established as the standard for accessing and applying managed materials data across a broad range of engineering software. Version 2.0 brings enhanced ease-of-use and productivity, with even better insights into the materials assigned to design and simulation models.

Quality materials data is a pre-requisite for accurate design and simulation. Yet, until recently, there was no dedicated solution to ensure access to fully approved and traceable materials data directly from

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within CAD, CAE, and PLM software. Granta has worked with some of the world's top engineering enterprises to develop best practice in managing, accessing, and applying materials property information. The resulting GRANTA MI™ software enables these companies to store and use both corporate materials knowledge and an unrivalled catalog of materials reference data on thousands of metals, plastics, ceramics, composites, and natural materials.

The GRANTA MI:Materials Gateway technology integrates [GRANTA MI™](#) with CAD, CAE, and PLM systems, putting authoritative materials information into the hands of engineers and design teams quickly and traceably, and within their routine workflows. A growing range of MI:Materials Gateways includes applications for Abaqus /CAE®, ANSYS®, Autodesk Inventor®, CATIA®, Pro/ENGINEER® and Creo®, NX®, and Teamcenter®. Their impact is revolutionary, providing users with:

- The right materials data, in the right format, with full traceability, when and where it is needed – for the first time ever across a broad range of leading CAD and CAE systems.
- Guidance on optimal materials and processing decisions, through dedicated dashboard and reporting tools within CAD and PLM.
- Materials knowledge management for PLM, enabling reports (e.g., “where is this material used?”) to be generated across multiple products.

Version 2.0 builds on user feedback from the first-generation technology to confirm the arrival of MI:Materials Gateway. An enhanced user interface integrates more closely with host systems, making it easier for users to navigate the structure of assemblies and parts read from CAD and PLM systems. There is easier selection of sub-assemblies and parts when assigning materials. New shortcuts make it quicker to apply the right data to those parts: from the right density information for accurate weight roll-ups; to ensuring the correct material name, designation, and surface treatment appear on drawings; to full temperature-dependent stress-strain information for use in non-linear FEA.

GRANTA MI:Materials Gateway also ensures traceability to the company's “gold source” materials data. At any time, authorized CAD, CAE, or PLM users can access and retrieve additional information on assigned materials for, e.g., non-linear simulation, cost analysis, or environmental impact reporting. Version 2.0 further enhances control over versioning of materials properties – providing notification directly in the design system if assigned materials have since been updated in the master database, and enabling users to update their models.

“We believe that MI:Materials Gateway can revolutionize the accessibility and quality of the materials data used in design and engineering software,” commented Dr. Arthur Fairfull, product director for Materials Strategy and PLM Integration at Granta Design, who also stated that “Users are already benefiting from efficient use of consistent, quality materials data across their organization. Version 2.0 builds on feedback from this user community to deliver a new, slicker user interface, version notification and control of assigned data, with enhanced integration and navigation features.”

These tools for intuitive materials assignment and reporting will be demonstrated at a live web seminar on October 30, alongside a discussion of key issues when deploying materials data for use in design,

simulation, or product lifecycle management: www.grantadesign.com/webseminars/2013/gateway2.htm

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MathWorks Introduces Support Packages to Generate Code Optimized for ARM Cortex -M Processors from MATLAB and Simulink

29 October 2013

MathWorks today announced [Simulink](#), [DSP System Toolbox](#) and [Embedded Coder](#) support packages to generate code optimized for [ARM® Cortex®-M series processors](#). Now available with [Release 2013b](#), the MATLAB and Simulink support packages offer three levels of integration support:

Simulink, DSP System Toolbox and Embedded Coder can generate code for ARM's CMSIS DSP library to produce optimized performance of DSP filters (for any ARM Cortex-M processor)

- Simulink and Embedded Coder can build and test the optimized code using Processor-in-the-Loop (PIL) testing based on GCC and the QEMU host emulator (for ARM Cortex-M3 processors)
- Simulink and Embedded Coder can generate code for device drivers and enables hardware I/O for STMicroelectronics STM32F4 Discovery Board (for ARM Cortex-M4 processors)

“MathWorks [Model-Based Design](#) tools are helping developers create the next generation of energy efficient and intelligent ARM-based technology,” said Richard York, director, Embedded Processor Products, ARM. “These new tools and support packages are optimized to accelerate the entire design and development process. This encompasses modelling and simulation, optimized code generation using the ARM Cortex Microcontroller Software Interface Standard (CMSIS), right through to mass production.”

“Engineers are often faced with the challenge of using high-level tools for fast design and then manually re-writing algorithms into processor-optimized code,” said Paul Barnard, design automation marketing director, MathWorks. “By enabling MATLAB and Simulink to generate code optimized for ARM these teams can focus on exploring and iterating on design, accelerating prototyping and deployment in embedded systems used in mass production.”

The ARM optimized code offers up to a 10X execution performance improvement over ANSI/ISO C and supports MATLAB code, Simulink blocks, and DSP System Toolbox filters. ARM provides an integration that automates build and execution of the ARM optimized code, generated from Simulink, for the ARM MDK package.

Support Packages for Simulink, DSP System Toolbox and Embedded Coder are available immediately.

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MecSoft Releases VisualCAD/CAM 2014

29 October 2013

MecSoft Corporation has announced the availability of VisualCAD/CAM 2014, MecSoft's standalone CAD/CAM software suite.

VisualCAD/CAM includes the modules VisualMILL, VisualTURN, VisualNEST, and VisualART, each of which run integrated inside the VisualCAD 2014 base CAD platform and can be bought and licensed independently of each other. MecSoft continues to provide VisualCAD as a completely free design tool. All of these modules, including VisualCAD, were significantly enhanced and improved in this 2014 release to provide customers with a seamlessly integrated complete manufacturing platform.

"This release is a breakthrough release for MecSoft, in that we have integrated and improved all of our manufacturing applications under one powerful and easy to use manufacturing platform called VisualCAD/CAM. This platform provides our customers with complete integration and seamless interoperability to significantly boost their productivity and enhance their user experience. It also provides MecSoft with a strong platform to implement an annual release cycle, starting with this release," stated Joe Anand, President and CEO of MecSoft Corporation. "We have worked hard not only to make sure the integration is seamless but also on the improvements to each of the individual modules and I am proud to say that this is one of MecSoft's best releases yet."

The free demo software of VisualCAD/CAM 2014 can be downloaded at <http://visualcadcam.com>. For more information, please visit mecsoft.com or call (949) 654-8163.

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New SpecWave Composer Extends Value of ProjectWise, Bringing Automation and Rigor to Specification Creation, Control, and Compliance

29 October 2013

The *Year in Infrastructure 2013* Conference – Bentley Systems, Incorporated, announced the release of [SpecWave Composer](#), the first product based on its acquired SpecWave technology. With *SpecWave Composer* and [ProjectWise](#), architectural, engineering, construction, and operations professionals can finally bring automation and engineering rigor to the tasks of authoring, managing, and referencing engineering specifications, codes, standards, and other structured documents. *SpecWave Composer* allows a project or organization to extend to *specification* workflows the benefits of collaborating, work sharing, and managing change in a secure environment, increasing information mobility with integrity.

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SpecWave Composer will also work seamlessly with the forthcoming *ProjectWise Construction Work Packaging Server*. This will empower AEC project teams to incorporate more reliable specifications and other text documents into their work packages, increasing the comprehensiveness of their work packaging processes to decrease onsite errors and rework, and to increase project safety, quality, and success.

Leon Gorbaty, Bentley director of product management for *SpecWave* and co-inventor of this technology, said, “I created my first *SpecWave* prototype while working in project management for construction, after witnessing repeated cost overruns and failed inspections of critical engineered equipment – all of which could have been avoided with accurate, reliable, and timely spec generation. There was a large disconnect in the governance of specifications (usually static Word documents) compared with other change-managed project deliverables such as models and drawings. Now we can complete the reach of *ProjectWise* workflow controls and audit trails to manage all engineering content.”

He continued, “*SpecWave Composer*’s ability to digitize and manage text content, coupled with the SPECX format’s ability to link, filter, and multi-purpose the subject matter – in combination with the versioning and collaboration capabilities of *ProjectWise* – allows users to improve project compliance and reliability.”

Advantages of *SpecWave Composer* include:

- improved specification quality and accuracy;
- streamlined specification workflows through spec reuse and reduction in administrative tasks, resulting in less time spent formatting, creating, and updating specifications;
- effective and disciplined change management;
- reduced risk associated with assets being constructed to the wrong specification or an inaccurate specification;
- the ability to maintain and enforce document quality and corporate styles via structured templates;
- the ability to ensure disparate project teams are “on the same page” in their use of specifications;
- improved compliance.

Harry Vitelli, Bentley vice president, construction and field products, said, “Specifications are so important to project delivery that Bentley is leveraging SPECX technology in mobile i-models for referencing associated specifications. Accordingly, users of our field apps will always have, ‘hands-on,’ the correct specification, enhancing project quality.

“Just recently, we took ease of use in our [Field Supervisor](#) app to a new level by using SPECX filtering to render specifications in the format most appropriate to the app user’s job function. So a single master specification document can serve multiple disciplines through customized views at presentation time in the field. The right spec will always be available at the right time – to complete its reach in effective

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project delivery.”

For additional information about *SpecWave Composer*, click [here](#).

For additional information about *The Year in Infrastructure 2013* Conference, click [here](#).

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