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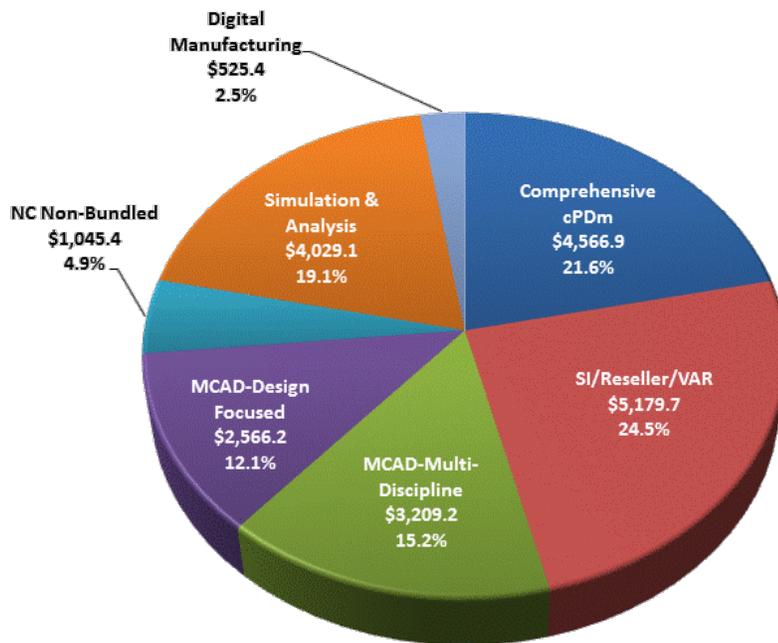
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CIMdata News

CIMdata Publishes Executive PLM Market Report

9 July 2013

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces the release of the CIMdata 2013 PLM Executive PLM Market Report. This report provides an executive-level view of CIMdata's comprehensive analysis of the PLM market, with summary charts on the overall market and on specific PLM solution segments (including the chart below). It also includes perspectives on current trends in the PLM industry and how they may affect current suppliers and investments.



Mainstream PLM Market Sector Sizes in 2012 (US\$ Millions)

Based on CIMdata estimates, the Mainstream PLM market grew 12.6% in 2012 to \$21.1 billion. “The PLM market started strongly in 2012, and then growth tailed off in the second half of the year,” according to Stan Przybylinski, CIMdata’s Vice President of Research, “MCAD revenues grew slowly in both sub-segments that CIMdata tracks. Once again, simulation and analysis (S&A) was the fastest growing segment, showing the increasing importance of S&A across the product development lifecycle.”

This report is the first of five modules of the CIMdata PLM Market Analysis Report Series to be released. 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.

CIMdata PLM Industry Summary

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.
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.

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

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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 Publishes PLM Trends Report

10 July 2013

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces the release of the CIMdata 2013 PLM Industry Review and Trends Report, the second 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.

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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.
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

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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.

“The PLM market started strongly in 2012, and then growth tailed off in the second half of the year,” according to Stan Przybylinski, CIMdata’s Vice President of Research, “MCAD revenues grew slowly in both sub-segments that CIMdata tracks. Once again, simulation and analysis (S&A) was the fastest growing segment, showing the increasing importance of S&A across the product development lifecycle.” This report provides CIMdata’s perspectives on current trends in the PLM industry and how they may affect current suppliers and investments.

The focus of the 2013 Trends report is on how decision-making in product development is changing through the application of technology in a number of ways. Several trends are commented upon. Cross-disciplinary collaboration must be better supported to effectively implement systems engineering. Despite the growing sales of S&A solutions, there is still a lot of work to do to “democratize” the technology so that it can be used more widely and earlier in the product development cycle. The emerging area of “Big Data” is showing promise to help users make better informed PLM decisions. Innovative user interfaces are bringing the right data to the right people at the right time. Mobile apps help people make better decisions. Are they doing the same in PLM? Beyond discussing PLM trends, the report also includes a detailed appendix that documents the evolution of the PLM competitive landscape over the last decade.

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.

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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

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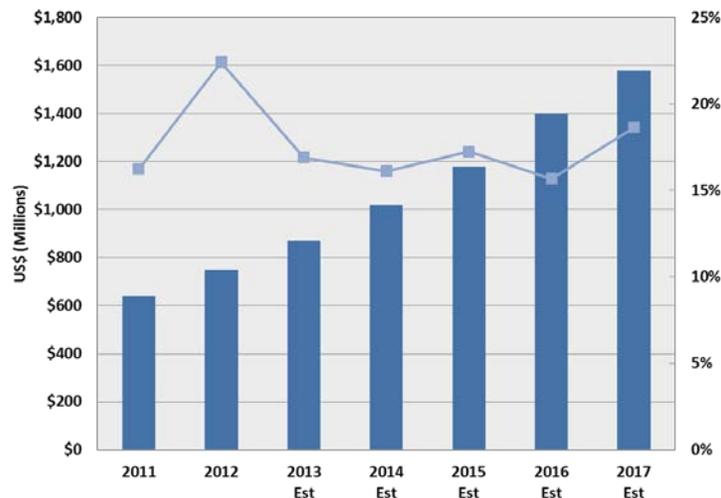
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CIMdata Releases its 2013 China PLM Report

9 July 2013

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces the availability of its 2013 China Product Lifecycle Management (PLM) Market Analysis Report. This report provides detailed information and in-depth analysis on the People's Republic of China's ("China") rapidly-evolving PLM market. The report discusses the major China PLM trends and issues, PLM purchase investments in software and services, PLM adoption in various industry sectors, and market growth forecasts that pertain to this important and quickly expanding economic region. This report also provides insight into PLM market dynamics within the region and the revenue performance of the leading PLM solution providers operating within it, both China-based and international PLM solution providers based elsewhere. This report is a joint collaborative effort of CIMdata and China-based e-works Manufacturing Information Technology Co., Ltd. (<http://www.eworksglobal.com/> in English and <http://www.e-works.net.cn> in Chinese).

Stan Przybylinski, CIMdata Vice President of Research said, "While the global PLM market slowed in the second half of 2012, China had another strong year, with nearly 17% growth to US\$749.2 million, which is just under 5% higher than the growth rate of the global Mainstream PLM market, and in 2013 the growth rate of the Chinese Mainstream PLM market is forecasted to be 16.1%." Chinese industries that are heavily investing in PLM include aerospace, automotive, high-tech, and mechanical machinery. The following chart illustrates the growth and size of the China PLM market for the past 2 years and projects growth through 2017.



Global PLM solution providers continue to invest in China and are expanding their partner networks and growing their customer bases. The leading international PLM solution providers include Dassault

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Systèmes, PTC, and Siemens PLM Software, and these three firms accounted for nearly 54% of China-based Mainstream PLM revenues in 2012. “In the last year, local Chinese solution providers have greatly improved their offerings,” stated Peter Bilello, CIMdata President. “We had strong attendance at our second annual China PLM Market & Industry Forum, from both local solution providers and mainstream international providers. Once again, at the China forum, held in Beijing this year, we had the most fervent discussion of systems engineering, a very advanced PLM topic, of any of our four forums around the world. Chinese academic organizations are working with industrial end user companies to make that vision a reality,” he added.

This report reflects the trend that Chinese manufacturers are paying more and more attention to product innovation and are rapidly improving their own R&D capabilities and processes by deploying PLM, not only in traditional discrete industries, but also in life sciences, food & beverage, and several emerging vertical markets.

CIMdata designed this report to be a valuable source of information to support the business and market planning processes of PLM solution providers that are targeting China, as well as industrial companies within China who would like to understand the PLM competitive landscape. Further details about the report including pricing information are available on CIMdata’s website for [publications](#).

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Dassault Systèmes' Green Suite: The Lean, Green, and Compliant Industry Solution Experience: A CIMdata Commentary

11 July 2013

Key takeaways:

- *The transportation trend most visible to consumers is the requirement to reduce the environmental footprint of new vehicles*
- *Dassault Systèmes' 3DEXPERIENCE platform promises to deliver on the industry solutions needed to enable a dramatic evolution in eco-friendly vehicle design*

Dassault Systèmes continues to roll out new Industry Solution Experiences built upon their 3DEXPERIENCE platform. Solution Experiences are designed to cover the full sweep of end-to-end product development and comprise a suite of industry-tuned process application modules that support a particular theme. The latest suite, **Lean, Green, and Compliant**, targets what Dassault Systèmes calls the Transportation & Mobility industry segment and addresses the design challenges behind environmentally friendly, yet high-performance, compliant vehicles.

In the automotive industry the trend most visible to consumers is the requirement to reduce the environmental footprint of new vehicles. The IBM Automotive 2020 Global Study report¹ based on collaborative interviews with 125 automotive industry leaders indicates that the two leading factors considered by the buying public are fuel efficiency and eco-friendliness. Based on these opinions the automotive industry has targeted pushing new-vehicle production based on fossil fuels down to 65% and recyclability upwards to 88% by the year 2020.

All of this must be accomplished while at the same time dealing with major technological innovations. We have all seen the revolution in automotive design over the past decade—the dramatic increase in electrical and embedded software components. In the coming years expect to see major improvements in propulsion, materials, and performance. Industry leaders have expressed the belief that the industry will experience more change in the next decade than it has in the last fifty years.

Dassault Systèmes' 3DEXPERIENCE platform targets the industry solutions needed to enable this dramatic evolution in eco-friendly vehicle design. From its ability to search both structured and unstructured data, vehicle planners should be able to pull together detailed requirements and also develop performance targets. Collaboration tools seek to establish an environment that gives stakeholders the ability to communicate and contribute to the product model from across the globe. In addition, developers and consumers will be able to communicate throughout the entire development process, opening opportunities for radical innovation unmatched by traditional solutions.

As a vehicle design progresses through the development cycle, Dassault Systèmes' Lean, Green, and

¹ Rishi, Sanjay, et al. Automotive 2020: Clarity beyond the chaos. IBM Report.
<http://www-935.ibm.com/services/us/gbs/bus/pdf/gbe03079-usen-auto2020.pdf>

CIMdata PLM Industry Summary

Compliant Solution Experience supports process modules to define, optimize, and track vehicle characteristics critical to an eco-friendly design. These modules will help designers to optimize vehicle weight and energy management including fuel consumption and emissions. Dassault Systèmes reports special focus is paid to support electric vehicle (EV) and hybrid electric vehicle (HEV) design.

The focus on optimization carries over into vehicle physical performance and the product simulations needed to maximize design efficiency in noise, vibration, and harshness (NVH); aerodynamics; and durability. The Dassault Systèmes industry process modules attempt to foster realistic vehicle design simulation at all stages of development. In addition, by bringing together the virtual and real worlds, developers should be able to validate physical test results with virtual simulations, more efficiently satisfying vehicle requirements.



Figure 1: Virtually Experiencing the Lean, Green, and Compliant Industry Solution Experience (Courtesy of Dassault Systèmes)

As a green vehicle advances towards release, one of the critical factors developers must ensure in order to be certified as compliant is that the product meets all regulatory criteria. The Dassault Systèmes solution reportedly checks regulatory compliance and develops environmental impact scores as the design progresses, and helps produce final documentation to confirm compliance upon delivery.

In an automotive industry undergoing such radical change and with the added pressures imposed upon it for eco-friendly products, CIMdata believes the Dassault Systèmes Lean, Green, and Compliant Industry Solution Experience promises to offer leading automotive OEMs and suppliers the needed answers to their requirements. The combination of industry-tuned process modules for EcoDesign; ideation to requirements; cost, weight, and energy tracking; and simulation and regulatory compliance, has the potential to deliver a powerful set of tools for developers to remain competitive in the coming decade.

About CIMdata

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Pushing the Boundaries with Fusion 360: A CIMdata Highlight

10 July 2013

Autodesk once again aggressively pushes against the boundaries we know for CAD modeling with the introduction of Fusion 360. Riding the wave of a new generation of cloud-based applications, Fusion 360 combines stylized modeling techniques obtained from Autodesk's acquisition of T-Splines, together with the best of Autodesk's viewing and collaboration technologies. It's a bold move that continues Autodesk's commitment to cloud delivery and subscription-based solutions. The market is still unsettled and undecided in its acceptance or rejection of cloud-based CAD and Fusion 360 will need to prove itself in the coming months: Can proper levels of performance be maintained as the CAD client becomes thinner? Which segments of the market will buy in to having their data floating around in the cloud? Autodesk has an opportunity to help shape answers to these and other questions.

Fusion 360 doesn't stop there in challenging the market. The Fusion 360 approach to modeling diverges from the now-conventional history-based, NURBS geometry solutions found in competitive CAD applications and in Autodesk's own Inventor product. While both T-spline geometric technology and the direct modeling approach Fusion 360 uses are winning a level of acceptance in the industry, they have both failed to cause a major upheaval in the few years they have existed. Yet the call to support conceptual design is strong, and the pull of more industrial design in almost all mechanical products is a force that can shape the market.

The one given in Autodesk's one-two-three punch of cloud supported direct modeling, T-splines, and collaboration embraces the market shift and acceptance of social collaboration technology and its draw in the product modeling industry. CIMdata expects that Autodesk will lead with their collaboration "upper-cut" using strong, established technology and capabilities. Whether they can follow through for either a knockout or a decision-win is still an open question. CIMdata expects, however, that Autodesk has the ability to make a difference to the market dynamics with Fusion 360.

Autodesk indicates that Fusion 360 will be available for purchase in August 2013. All prices will be based on an annual subscription, although monthly and quarterly subscriptions will be possible. Until

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then, users may obtain a 90-day free trial by contacting Autodesk.

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Acquisitions

CD-adapco Acquires Red Cedar Technology Incorporated

9 July 2013

CD-adapco's Executive Vice-President Bill Clark today announced the acquisition of Red Cedar Technology Incorporated. CD-adapco is a privately held CFD focused provider of Computer Aided Engineering software and services. Red Cedar is the developer of HEEDS Multidisciplinary Design Optimization software. The acquisition will add HEEDS® MDO to CD-adapco's suite of Computer Aided Engineering simulation tools, that includes STAR-CCM+, STAR-CD, Battery Design Studio and SPEED. The move further cements CD-adapco's commitment to providing simulation tools that allow engineers to simulate entire engineering systems.

Red Cedar Technology will continue to operate as a wholly owned subsidiary of CD-adapco, with Bob Ryan continuing as President, and CD-adapco's Executive VP Bill Clark assuming the role of CEO. Under CD-adapco's ownership, Red Cedar will continue to develop HEEDS® as a general-purpose process automation and design optimization tool that can be coupled with any CAD or CAE software.

"I doubt that anyone who has been watching us closely will be surprised by this acquisition," said CD-adapco Executive Vice President Bill Clark. "For the last five years we have been redefining the paradigm for CAE licensing, with the stated intention of allowing our customers to perform multi-disciplinary design exploration studies that capture all the real world physics that are likely to influence a potential product during its operational life. Up until now, the key-missing component in this strategy has been a best-in-class process automation and optimization tool. CD-adapco's acquisition of Red Cedar Technology will empower our customers to leverage their simulation models by optimizing potential designs across the entire design space."

"This acquisition is the natural progression of the strategic partnership that we formed more than a year

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ago to help CD-adapco customers integrate their CFD software with other CAD and CAE software and perform multidisciplinary design optimization," said Red Cedar President Bob Ryan. "From our first interactions, we realized Red Cedar Technology and CD-adapco shared the same vision and could achieve more together than separately."

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Company News

Delcam Rated World's Leading CAM Software Specialist for 13th year

8 July 2013

The latest NC Software Market Analysis Report from leading US analysts CIMdata shows that, in 2012, Delcam again had the highest vendor revenues and received the highest end-user payments of all the CAM-centric companies. This means that the company has completed thirteen years as the world's leading specialist supplier of CAM software and services, having first achieved its global leadership in 2000, despite a number of mergers and acquisitions that have created some larger competitors.

CIMdata found that Delcam continues to increase its market share. The company's share of vendor revenues grew from just over 7% in 2011 to 7.3% in 2012. A further increase in market share to over 7.5% is predicted by CIMdata for Delcam in 2013.

The CIMdata report also confirmed that Delcam continues to have the largest organisation in the CAM industry, employing 671 people, by far the largest number of staff devoted to CAM software in any company. No other company employs more than 300 people for its CAM activities.

The Delcam staff total includes the largest development team in the industry, with 210 people working on the company's manufacturing software. The next highest CAM development team comprises 130 people, less than two-thirds of the Delcam total.

Total end-user spending on NC software and services is estimated by CIMdata to have grown by 5.9% in 2012, establishing a new record for the industry. CIMdata projects that the growth in the market will accelerate further in 2013 and so estimates that end-user spending for NC software will increase by 7.9%.

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EcoCAR 2 Team from University of Victoria Wins First Place MathWorks Award for Innovative Model-Based Design

9 July 2013

CIMdata PLM Industry Summary

MathWorks today announced that [University of Victoria](#) has won the MathWorks modeling award as part of the EcoCAR 2 student competition. The award recognizes the team's use of [MATLAB](#) and [Simulink](#) for [Model-Based Design](#) during the three-year competition to reengineer a 2013 Chevrolet Malibu to improve its fuel efficiency. Other schools to place included [Ohio State University](#) and [Mississippi State University](#), winning second and third place respectively.

Eleven EcoCAR 2 teams participated in the MathWorks Modeling Award competition. The teams demonstrated their innovative use of modeling and simulation through a presentation and Q&A session coinciding with the end of Year Two of the three-year challenge. Winners were assessed on how well they applied Model-Based Design concepts using MathWorks tools, including the key areas of plant modeling, control design and tuning, data analysis, industrial grade Model-Based Design development process elements, and lessons learned.

“Student competitions are a great way to inspire our next generation of engineers while giving them an appreciation for working toward greater causes,” said Paul Smith, Director, Consulting Services Group, MathWorks. “These competitions also give students real-world engineering experience with the hardware and software used in professional environments. MathWorks was very impressed with the enthusiasm and professionalism of the student presenters.”

EcoCAR 2 Ohio State University team used Model-Based Design to increase quality and reduce development time.

Colorado State University's EcoCAR 2 team improved productivity by using simulation to test and validate models.

To be eligible for the award, teams must be active participants in the 2013 EcoCAR 2 Challenge, a competition organized by the U.S. Department of Energy and General Motors. The teams use Model-Based Design, an approach in which a virtual model is at the center of system development, from initial design and simulation through to testing and implementation. The contestants used online and offline parallel optimization of fuel economy at the vehicle level.

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Eurostep and Pera Sign Partnership Agreement for the Chinese Market

10 July 2013

PERA Corporation Ltd, a high-end R&D leader in the field of China information technology, announce that they have entered into strategic partnership with Eurostep as a strategic partner in the Chinese market. Eurostep owns the flagship software Share-A-space, which can integrate product data from different product systems based on the underlying standardized information models (STEP/PLCS), and manage the product life cycle through fine-grained level collaboration supported by rich semantic content and secure access mechanisms to ensure data integrity, standardization, consistency and

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accuracy. Through this partnership with Eurostep, PERA will combine Share-A-space with PERA Lean R&D Platform to enrich simulation-driven design and lean R&D technology, and also deliver the secure PLM collaboration experience of Share-A-space to Chinese organizations.

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JETCAM Expands European Composite Software Operations with JETCAM Composite GmbH

11 July 2013

JETCAM International s.a.r.l. today announced the foundation of JETCAM Composite GmbH, which will focus on selling JETCAM's range of nesting and composite material management applications to companies in Europe. The move is in response to increased demand in the sector across aerospace, automotive, marine and wind sectors across the region.

The company will provide local level expertise for the complete range of JETCAM composite manufacturing and nesting products. The award-winning JETCAM Expert nesting software delivers savings by continually searching for the optimum nest pattern for plies. CrossTrack provides complete traceability of material, material life, orders, plies, kits and nests - all in real time.

JETCAM Composite GmbH's Sales Director Stefan Dragitsch commented; "The interest in CrossTrack has been phenomenal in the last few months, with several global brands in aerospace, marine, military and medical sectors looking to make the move."

Martin Bailey, General Manager for JETCAM International s.a.r.l. added; "Over the last decade JETCAM's composite customer base has grown exponentially, with companies such as BAE, GE, GKN and Bombardier all benefiting from JETCAM's nesting and automation knowledge. We see this expansion as an exciting opportunity to help both large and small manufacturers stay ahead of the game through automation and efficiency."

JETCAM Composite GmbH will also be servicing sheet metal users in Switzerland.

JETCAM is also planning to expand its dealer network into other geographic regions and is interested to talk to companies already selling into these markets.

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MecSoft Partners with Texas Based CNC Reseller

10 July 2013

MecSoft Corporation, the developer of industry leading [CAD/CAM software](#) solutions, has announced their new partnership with [Action CNC Routers and Supplies](#).

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“Partnering with MecSoft allows Action CNC Routers and Supplies a good competitive edge without giving up quality,” stated Steve Galloway, Owner of Action CNC. “We want to deal in today’s high tech market and VisualMILL gives us the right product mix to make it happen.”

Based out of Arlington, Texas, Action CNC Routers and Supplies is a company committed to providing the highest quality CNC products for their customers. In addition to providing CNC machines such as routers, turners, and prototype mills, Action CNC also provides CNC services such as training and repairing. Now, thanks to MecSoft Corporation, Action CNC has added VisualMILL 2012 CAD/CAM Software to their product line.

This new partnership continues MecSoft’s effort of partnering only with companies that share MecSoft’s same passion for outstanding customer service and technical support; a benefit that sets MecSoft apart from competition.

For more information contact MecSoft at (949) 654-8163.

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Real Intent Joins Synopsys in-Sync Program

8 July 2013

[Real Intent](#), Inc., a provider of EDA advanced sign-off verification solutions, today announced it has joined the Synopsys in-Sync™ program for two of its flows – the Synopsys VCS® Verilog simulator tie-in to Real Intent’s [Ascent™ and Meridian™](#) products; and the Synopsys HDL Compiler™ tool flow tie-in to its Meridian products.

“Since our beginning, Synopsys has advanced tool interoperability via standards organizations and our own programs including in-Sync,” said Karen Bartleson, senior director of Community Marketing at Synopsys, Inc. “By joining in-Sync, Real Intent can work with us in verification and synthesis to help our mutual customers meet their stringent design flow requirements.”

CDC analysis and verification are vital at both the pre- and post-synthesis stages of design to ensure against signal metastability. Correct and complete CDC analysis and verification require a clean and correct SDC file that is also used in the synthesis, and timing analysis steps. The Meridian flow with HDL Compiler ensures compatibility for SDC files. The tie-in of VCS to Ascent and Meridian products provides dynamic verification of both X-propagation and metastability issues.

Graham Bell, vice president of Marketing at Real Intent said, “Our solutions play well with others in the industry, and we are especially pleased to become a member of Synopsys’ in-Sync Program. Our membership provides access to Synopsys’ market-leading verification and synthesis technologies to ensure interoperability, and brings time and cost efficiencies to our mutual customers who now can take advantage of a proven and qualified design flow.”

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Ricardo Joins Open Source Consortium in Sign of Commitment to Modelica-based CAE

8 July 2013

Ricardo Software announced today that it has joined the Open Source Modelica Consortium (OSMC), demonstrating the company's commitment to Modelica-based CAE and paving the way for launch of the forthcoming IGNITE software product.

Modelica is a non-proprietary, object-oriented, equation based language for the modelling of complex physical systems containing mechanical, electrical, electronic, hydraulic, thermal, control, electric power or process-oriented subcomponents. With a membership including some of the world's leading engineering organizations and CAD and CAE software developers, the OSMC is a non-profit, non-governmental organization with the aim of developing and promoting the development and usage of the OpenModelica open source implementation of the Modelica and associated open-source tools and libraries.

Ricardo's forthcoming IGNITE product is a physics-based system simulation package – operating in Modelica – that focuses on complete vehicle performance and fuel economy. With a planned launch later this summer, IGNITE allows engineers to quickly identify important variables and constraints and easily find optimal vehicle designs.

The OSMC membership allows Ricardo to include and distribute the OpenModelica solver technology within its software products. With this addition, Ricardo Software users will have greater convenience, as they will no longer have to separately procure and install third-party platforms in order to operate. In addition, the membership allows the company to provide input into the general direction of Modelica-based industry standards and have voting rights within the consortium.

“Ricardo is fully committed to Modelica and will be basing our new vehicle system simulation product, IGNITE, on this platform,” said David Higbie, global director of Ricardo Software. “The power and flexibility of Modelica not only enables us to deliver rapid innovation to our clients, but empowers them to implement their own intellectual property in the IGNITE environment.”

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Stratasys Chairman and CIO Scott Crump Receives Industry Achievement Award from the Society of Manufacturing Engineers

8 July 2013

3D printer maker Stratasys Ltd. is proud to announce that its Chairman and Chief Innovation Officer, Scott Crump, was awarded the Rapid Technologies and Additive Manufacturing (RTAM)

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Industry Achievement Award by the Society of Manufacturing Engineers (SME) on June 12. The award was given at SME's RAPID 2013 annual industry conference. Francisco Medina, manager of the University of Texas at El Paso's W.M. Keck Center for 3D Innovation, presented the award to Mr. Crump.

Established in 2008, the Industry Achievement Award annually recognizes one individual, team or company for outstanding accomplishments that have had significant impact within the additive manufacturing industry or in any industry through the application of additive manufacturing technologies. A panel of judges composed of manufacturing engineers, CEOs, industry consultants, original equipment manufacturers and other rapid manufacturing professionals evaluate nominees from the RTAM industry, including rapid manufacturing, tooling, medical, 3D imaging and materials. The award winner is selected based on the scope and scale of their work benefitting the industry today as well as its promise to positively and significantly impact the future.

"I am extremely honored to receive this prestigious award," said Crump. "On behalf of the entire Stratasys family, who all work so hard to put our company at the leading edge of innovation and technology, I'd like to thank the Society of Manufacturing Engineers for this recognition."

The next opportunity to hear Mr. Crump speak will be July 10 at the Inside 3D Printing Conference & Expo in Chicago, where he will deliver the keynote address. The conference explores current and future business applications of additive manufacturing and features tutorials and seminar sessions covering topics such as policy issues, art and architecture.

Mr. Crump has served as the Chairman of the Board since Stratasys Inc's inception in 1988. Since the company's merger with Objet and formation of the new entity - "Stratasys Ltd." - Crump continues as full-time Chairman as well as Chief Innovation Officer. Crump along with his wife Lisa H. Crump, invented Fused Deposition Modeling (FDM) technology.

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Synergis Earns Autodesk Digital Prototyping Certification

9 July 2013

Synergis Technologies, Inc. announced that it has earned the new Manufacturing Autodesk Digital Prototyping Certification designation for value added resellers from [Autodesk](#), Inc. By completing the required curriculum and training, as well as meeting required levels of standards set by Autodesk, Synergis has demonstrated their ability to be a trusted adviser and expert in Digital Prototyping.

"Synergis has been supporting manufacturing companies for over 25 years, and our success comes from providing customers with the solutions that best fit their needs," said Kristen Tomasic, vice president of Synergis' Engineering Design Solutions Division. "These customers depend on the expertise we provide, and the certifications our team earns are a result of their understanding and knowledge of the Autodesk

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solutions. We are excited to be the first reseller to earn the Autodesk Digital Prototyping Certification."

The Autodesk solution for Digital Prototyping brings together design data from all phases of the development process into a single digital model, which gives manufacturers the ability to better design, visualize, and simulate a complete product with less reliance on costly physical prototypes—and minimal disruption to existing workflows.

"We are very pleased to recognize Synergis' expertise and commitment to providing software that allows manufacturers to design, manufacture and market the world's best products," said Bill Griffin, Vice President Worldwide Channel Sales, Autodesk. "It's great to have companies like Synergis as partners in delivering a revolutionary approach to product development."

In addition to its newly acquired Digital Prototyping certification, Synergis is an Autodesk [Platinum Tier](#) Value-Added Reseller and has achieved numerous [Autodesk Specializations](#) including Simulation, Fabrication, PLM, and Factory.

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TCS' goIT Student Technology Program Encourages Students to Pursue STEM Fields in Columbus, Ohio

10 July 2013

Tata Consultancy Services announced the completion of its annual goIT summer camp in Columbus, Ohio. The camp, which is now in its second year in Columbus, is hosted at The Ohio Union at The Ohio State University and aims to inspire local students to pursue a career and education in Science, Technology, Engineering and Mathematics (STEM) fields.

The [goIT program](#) is a STEM education initiative that TCS offers pro-bono to high school students, and consists of in-school IT career and awareness workshops, and hands-on technology education. Led by TCS employee volunteers, it offers students the opportunity to engage with advanced technology in a fun, relaxed environment. The culmination of the program is a robotics competition, held on July 9, in which student teams competed under the guidance of TCS mentors to overcome a series of challenges and obstacles using programming skills and technologies. This year, challenges included a robotic chariot race and castle storming.

"We are pleased to host our second goIT summer camp in the Columbus, Ohio area," said Surya Kant, President, [North America](#), [UK](#) and [Europe](#), TCS. "As an IT services company, we believe that it is our mission to help address the growing skills gap in the technology sector. By exposing students to the power of technology from a young age, we can inspire them to pursue STEM-related fields in their education and, ultimately, their careers."

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By 2018, research shows that STEM occupations are projected to grow by 17%, with 71% of the STEM jobs focused on computing including cloud, Big Data, app development and cyber security. This contrasts sharply with the mere 17% of high-school graduates who are proficient and interested in pursuing STEM careers. TCS' goIT Student Technology Program is a multi-tiered outreach program engaging students, parents, universities and local government with the goal of increasing student excitement and participation in technology-related careers. Since its launch in 2009, the program has evolved from a two-school camp to a national, year-long program that has influenced over 7,000 students across 35 school districts. In addition to the previous goIT markets of Cincinnati, Columbus, OH and Midland, MI; this year, TCS is expanding the camp to reach students in Bentonville, AR; Edison, NJ; Minneapolis, MN; San Antonio, TX; Santa Clara, CA; Atlanta, GA; Chicago, IL; Dallas, TX; and Toronto, Canada. With these additions, goIT will be a nationwide program covering 11 US locations as well as the greater Toronto region in Canada.

“We are honoured to host the second annual goIT summer camp at our facilities,” said David Tomasko, Dean of the College of Engineering, Ohio State University. “At the university level, we believe it is critically important for students to receive early access and awareness of STEM-related topics. By encouraging these students to use technology in a creative, innovative way, TCS is helping to foster the next generation of entrepreneurs today.”

“Recent jobs reports and skills gap studies have shown the vital need for our educational facilities and community partners to come together to promote STEM education at the secondary and post-secondary levels,” said Tina Thomas-Manning, Ohio Associate Superintendent. “We appreciate the work that TCS is doing as a valuable member of this community and state economy in advancing STEM awareness amongst our students.”

The goIT program is just one of several ambitious initiatives that TCS is actively involved in to improve the accessibility and quality of STEM education and technology inclusion across the US. For example, this month at CGI America, a nationwide gathering hosted by the Clinton Global Initiative in Chicago, Illinois, it was announced that TCS has joined US2020 as a [Founding Leadership Partner](#). US2020 is a national STEM education initiative that aims to engage one million STEM professionals in mentorship opportunities by the year 2020. TCS will be the lead partner in developing US2020's web-based matching technology that will help place STEM volunteers into high-impact mentoring opportunities with top non-profits working across different grades, settings and delivery models.

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Events News

2013 Americas Altair Technology Conference Will Feature Global Experts in Simulation Trends for Aviation and Automotive

10 July 2013

Top engineers from world-leading aviation and automotive companies will highlight their application of

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simulation-driven design and optimization to emerging industry challenges during keynote presentations at the [2013 Americas Altair Technology Conference](#) (ATC). The ATC is the premier annual event for the advanced manufacturing, product design, science, HPC, and enterprise-computing communities. The complimentary three-day conference offering insight into computer-simulation trends and best practices is scheduled for Oct. 1-3 at the Hyatt Regency in Garden Grove, Calif.

[Four industry experts](#) will explore simulation's widening role in in the design process during their keynote addresses:

- **Robert McIntosh**, Boeing chief engineer of weight engineering in the BCA Flight Sciences organization, will review opportunities and challenges of introducing composites into the 787 airplane design and the value of simulation in the process.
- **Brian Cottrell**, Honeywell Aerospace chief of structures, will detail evolving trends in the structural optimization of gas turbine engines through computer-aided engineering.
- **Dr. Jayaraman Sivakumar**, senior manager of the engine structures component design and analysis department at GM Powertrain, will discuss the past, present, and future of analysis-led design.
- **Norihiko Sawa**, group manager for Toyota Japan, will present an application of coupled MBD and FEA full-vehicle simulation for car body durability analysis using HyperWorks.

The ATC brings together hundreds of professionals from across North America to share new developments, experiences, best practices and solutions to some of the largest and most complex problems in engineering, science, enterprise computing, HPC, and business analytics. The event features more than 50 user-led case studies and presentations citing examples of successful innovation and simulation. Also offered is the popular HyperWorks Tips & Tricks session, centering on the Altair suite of CAE software tools.

Additionally, the conference will include a gathering of all current [PBS Works](#) customers and partners for the Altair [PBS Works User Group](#), which will highlight presentations and panel discussions from thought-leaders in high-performance computing. Fee-based pre-conference training will help users learn how to employ PBS Works solutions to their full potential, with a Sept. 30 hands-on introduction to creating and using PBS Works hooks and an Oct. 1 introduction to integrating applications within Compute Manager.

For the first time, ATC also will host an [Academic User Day](#) during the conference. This portion of the conference will provide university students, faculty and staff the chance to share their experiences with Altair solutions and to discuss the application of CAE methods in their academic research and course work.

"The amount of initiative and experience relating to simulation-driven design, product optimization, and data analytics has grown so fast and so extensively, that hundreds of professionals across the continent rely on the Americas Altair Technology Conference as a primary source for discovering and discussing these developments," said Altair Chairman and CEO James R. Scapa. "The conference is an opportunity

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for some of the world's most successful engineers, designers, and scientists to share their latest approaches in sectors ranging from automotive and aerospace to consumer products, architecture and heavy equipment."

Sessions throughout the three-day conference will focus on the applicability and successes of optimization, modeling and visualization, design exploration, and the integration of composites across industry segments. In addition, attendees will gain insight into the new and updated facets of Altair technologies and enterprise solutions.

Complimentary registration for the ATC is available online at <http://www.iplanevents.com/ATC2013>.

One of the most popular aspects among ATC participants has been the networking opportunities at the event. Networking events include a welcome reception on Oct. 1 and an after-hours social on Oct. 2.

The Americas Altair Technology Conference is one of nine [events series that Altair offers annually](#) in Europe, Asia, and South America. This series collectively draws thousands of professionals to share experiences and best practices.

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Aras Sponsors 2013 Daimler EDM CAE Forum in Germany

9 July 2013

Aras® today announced that the company will sponsor the 2013 Daimler EDM CAE Forum. The event brings together Daimler AG employees and suppliers to discuss the latest strategies, processes and technologies for global product development and data management.

The Daimler EDM CAE Forum takes place July 10-11, 2013 at the ICS International Congresscenter Stuttgart. Attendees can visit Aras in stand PM32. Visitors will learn about automotive industry process and data management across the extended enterprise supply chain with the advanced PLM platform from Aras including CATIA and NX multi-CAD management, requirements management for systems engineering, Advanced Product Quality Planning and more.

Aras, a signatory member of the Codex of PLM Openness, will discuss the importance of open architecture, standards, interoperability, infrastructure, expandability and interfaces to truly enable global supply chain collaboration.

The EDM CAE Forum supports Daimler's commitment to the continuous exchange of information and views regarding strategic product development. The 2013 forum theme, "Engineering for Global Success", will address the ways in which product development at Daimler AG responds to global requirements today and in the future. The exhibition will include 180 topics and more than 100

presentations. For more information please visit http://www.daimler.com/edm-cae-forum_en

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CGTech to show VERICUT 7.3 Software at EMO

8 July 2013

CGTech will demonstrate the new version of VERICUT® CNC machine simulation and optimization software at the 2013 EMO show:

EMO
Hall 25, Stand J30
Hannover, Germany
September 16-21

VERICUT 7.3 includes many enhancements that significantly improve performance and further simplify the process of simulating a CNC machine. Changes to how users interact with VERICUT further improve VERICUT's workflow, and are a direct result of CGTech's philosophy of continuous product improvement.

“We have thousands of customers and their needs vary greatly,” said CGTech Product Marketing Manager Bill Hasenjaeger. “VERICUT has been designed to meet the needs of all types of shops – from the small job shop with simple parts, to the OEM and Tier 1 supplier that is regularly pushing the limits of CNC technology. VERICUT is constantly refined to provide the flexibility and tools our customers require.”

VERICUT Product/Function Overview:

VERICUT is CNC machine simulation, verification and optimization software that enables users to eliminate the process of manually proving out NC programs. It reduces scrap loss and rework. The program also optimizes NC programs in order to both save time and produce higher quality surface finish. VERICUT simulates all types of CNC machine tools, including those from leading manufacturers such as DMG-Mori Seiki, Mazak, Makino, Matsuura, Hermle, DIXI, and Chiron. VERICUT runs standalone, but can also be integrated with leading CAM systems such as Catia, NX, Creo Parametric (Pro/E), MasterCAM, PowerMill, EdgeCAM, hyperMILL, Esprit and GibbsCAM.

New User Interface Enhancements

The VERICUT user interface is very customizable. In version 7.3, the first thing a user will notice is the all-new icons, available in multiple sizes. There are also several user-selectable color themes, and every window and icon can be optionally displayed or hidden.

User-configurable “Favorites” further simplify setting up a simulation session. “Favorites” can consist of commonly used folders and files, and each item can be drag/dropped into a project.

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To help objects stand out in the machine simulation scene, an “Edge Display” option analyzes models on-the-fly and finds and displays their edges, all without affecting simulation speed.

During simulation, a user can create a list of “Stop At” events. These events, such as “Collisions”, “Warnings”, “Tool changes”, or “End of each setup”, can be managed interactively in the NC program dialog. The user can add, move, remove, or temporarily disable the events that pause the simulation.

Improved Collision Checking Speed

Version 7.3 performance is now 5-10x (or more) faster when the NC program moves the simulated machine into potential collision conditions. A significant in-house development effort produced enhancements to VERICUT’s collision algorithms, removing the need to adjust complex machine models to improve performance.

Other New Features since Version 7.2

- Drag/drop files from Windows for quick setup.
- Constant gouge check simulation with very large design models is now 2-5x faster.
- Automatically save a Reviewer file during the simulation session. The VERICUT Reviewer incorporates all the functionality of NC Review mode in a stand-alone viewer that does not require a license.
- Measure tool assembly components in the tool manager.
- New CAD/CAM interfaces are available for Surfcam and SolidWorks. Many other CAD/CAM interface improvements have been implemented.
- SpacePilot Mouse/Navigator motion is improved.
- Over 400 customer-driven enhancements and software change requests have been completed since version 7.2.

CGTech will also be demonstrating VERICUT Composite Applications at EMO. VERICUT Composite Applications are machine-independent off-line programming and simulation software solutions for automated composite tape (ATL) and fiber-placement (AFP) CNC machines.

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Delcam’s Vortex High-Speed Roughing Strategy to be Launched at EMO

9 July 2013

Delcam will launch its new Vortex strategy for high-speed area clearance on stand K18 in Hall 25, the largest stand of any CAD/CAM supplier, at the EMO exhibition to be held in Hannover, Germany, from 16th to 21st September. Vortex will be the major enhancement for the 2014 release of Delcam’s PowerMILL CAM system for high-speed and five-axis machining that will be demonstrated for the first time at the show.

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Vortex, for which Delcam has a patent pending, has been developed by the company specifically to gain the maximum benefit from solid carbide tooling, in particular those designs that can give deeper cuts by using the full flute length as the cutting surface. It can be used for two- and three-axis roughing, three-plus-two-axis area clearance and for rest machining based on stock models or reference toolpaths.

Like other Delcam roughing strategies, Vortex toolpaths are calculated to give more efficient machining by following the shape of the part and by keeping air moves to a minimum. This is particularly important for rest machining operations.

The benefits of using the Vortex strategy will vary depending on a number of factors, including the material and shape being cut, and the machine tool and cutting tools being used. A series of trials run by Delcam on different machine tools within its Advanced Manufacturing Facility has shown that a time saving of at least 40% is not untypical, with the biggest percentage savings being found when cutting tool steel on a Huron machine with SGS Z-Carb MD cutters. The cycle time for the sample part was reduced from 121 minutes to 34 minutes, a reduction of 71%.

Other examples included a reduction of 67% when cutting a number of pockets in a stainless steel part, a 63% time saving on a titanium part and a 58% saving when cutting an aluminium component.

One fundamental problem with conventional area-clearance strategies is that the optimum cutting conditions only occur during a straight-line cut. Any internal corners within the model significantly increase the engagement angle of the cutter. To protect the cutter, this increase needs to be balanced by setting a lower feed rate. The user then has the choice of using this lower rate over the whole toolpath, which increases the machining time, or varying the feeds and speeds as the cutter moves around the model and so increasing wear on the cutter.

Unlike other high-speed roughing techniques that aim to maintain a constant theoretical metal-removal rate, the Vortex strategy produces toolpaths with a controlled engagement angle for the complete operation. This maintains the optimum cutting conditions for the entire toolpath that would normally be possible only for the straight-line moves. As a result, the cutting time will be shorter, while cutting will be undertaken at a more consistent volume-removal rate and feed rate, so protecting the machine.

Because Vortex toolpaths have a controlled engagement angle, tools should never be overloaded and so will achieve the maximum tool life. Shock loading caused by changes in the contact angle is minimised, preventing chipping of the flutes. In addition, the stability of the cutting conditions gives more consistent edge temperatures, so prolonging the life of the tool coating and removing heat damage to the surface of the part. Finally, the ability to use stepdowns of up to two, or even three times, the tool diameter spreads the tool wear evenly over the cutting surface of the tool, again contributing to longer tool life.

Vortex is fully-integrated with the PowerMILL's step-cutting strategy for area clearance. This approach

minimises the terracing that can result from using a large stepdown by moving back up the part after generating the initial area clearance program and generating automatically extra toolpaths to remove additional material at intermediate slices. It optimises the amount of material that can be removed with a single tool, while helping to maintain a more consistent removal rate by increasing the feed rate for the intermediate slices.

"Anyone using the Vortex strategy will be able to hear the difference immediately," claimed Mark Forth, Product Manager for Delcam's Advanced Manufacturing Solutions. "Conventional roughing produces a sound of varying pitch, which indicates that the optimum cutting conditions are not being used and could even be a sign of tool overload or chatter. In contrast, Vortex roughing gives a constant pitch, showing that the tool is operating under consistent conditions. Users will also be able to see the difference in the regular size and thickness of the chips produced, providing further evidence of the consistency of the cut."

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Financial News

3D Systems Announces Conference Call and Webcast to Discuss Second Quarter and Six Months 2013 Results

8 July 2013

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

- Date: Tuesday, July 30, 2013
- Time: 9:00 a.m. Eastern Time
- Listen via Internet: investor.3dsystems.com
- Participate via telephone:
- Within the U.S.: 1-877-474-9505
- Outside the U.S.: 1-857-244-7558
- Participant code: 62870047

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

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ANSYS to Release Second Quarter 2013 Earnings on August 1, 2013

10 July 2013

CIMdata PLM Industry Summary

ANSYS, Inc. announced that the Company expects to release its second quarter 2013 earnings on Thursday, August 1, 2013. The Company will hold a conference call conducted by James E. Cashman III, president and chief executive officer, and Maria T. Shields, chief financial officer, at 10:30 a.m. Eastern Time to discuss second quarter results and future outlook.

CONFERENCE CALL INFORMATION:

What: ANSYS Second Quarter 2013 Earnings Conference Call

When: August 1, 2013 at 10:30 a.m. Eastern Time

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

To pre-register, go to:

<http://services.choruscall.com/DiamondPassRegistration/register?confirmationNumber=10031084&linkSecurityString=25bfd84144>

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

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

The call will be recorded with replay available within two hours after the call at <http://investors.ansys.com> or at (877) 344-7529 (US) or (412) 317-0088 (CAN and INT'L). Passcode: 10031084

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Dassault Systemes Schedules Second Quarter 2013 Results Webcast and Conference Call for July 25, 2013

9 July 2013

[Dassault Systèmes](#) will host a webcast and a conference call on Thursday, July 25, 2013, to discuss its operating performance for the second quarter ended June 30, 2013.

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The management of Dassault Systèmes will host the webcast at 9:30 AM London Time - 10:30 AM Paris Time and will then also host the conference call at 9:00 AM New York Time - 2:00 PM London Time - 3:00 PM Paris Time.

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

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

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PTC to Announce Fiscal Q3 Results on Wednesday, July 24th and Host Conference Call on Thursday, July 25th at 8:30am ET

10 July 2013

[PTC](#) announced that it will release its fiscal 2013 third quarter results on Wednesday, July 24th after the stock market closes. Senior management will host a live webcast and conference call to review the results on Thursday, July 25th at 8:30am Eastern Time. The earnings press release and accompanying prepared remarks will be accessible prior to the conference call and webcast on the Investor Relations section of the Company's web site at www.ptc.com.

- What: PTC Fiscal Q313 Conference Call and Webcast
- When: Thursday, July 25th, 2013 at 8:30am (ET)
- Dial-in: 1-800-857-5592 or 1-773-799-3757
 - Call Leader: James Heppelmann Passcode: PTC
- Webcast: www.ptc.com/for/investors.htm
- Replay: The audio replay of this event will be archived for public replay until 4:00 pm (CT) on August 5th, 2013.
 - Dial-in: 866-382-4785 Passcode: 6598

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

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Implementation Investments

3D Systems and Edison Nation Ink Exclusive 3D Printing Collaboration

8 July 2013

[3D Systems](#) announced today that Enventys, the company behind Edison Nation, *Everyday Edisons* and Edison Nation Medical, has selected 3D Systems' complete portfolio of [3D printers](#) for use across its award-winning programs and [services](#). Under this exclusive agreement Enventys affiliates will harness 3D Systems' entire end-to-end 3D printing and advanced manufacturing solutions.

Enventys, the Charlotte-based parent and development arm behind Edison Nation, *Everyday Edisons* and Edison Nation Medical, helps inventors and entrepreneurs achieve growth through the successful development and commercialization of groundbreaking products.

"We are thrilled to partner with 3D Systems and deploy their comprehensive portfolio of 3D printers across our entire Edison Nation product development ecosystem," stated Louis Foreman, CEO of Enventys. "Our 'Everyday Edisons' will benefit greatly from this exciting partnership."

"We are honored to have been chosen by Edison Nation as their exclusive 3D printing partner," said Avi Reichental, President and CEO, 3D Systems. "This collaboration is at the heart of our commitment to democratize access to 3D printing technology for inventors, innovators and everyday entrepreneurs everywhere."

Visit 3DSystems.com to learn which 3D printer or solution is right for your application.

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Aubade Selects Centric Software Product Lifecycle Management

10 July 2013

Aubade has selected Centric Software, Inc. as its [product lifecycle management \(PLM\) software](#) provider.

Aubade is the French manufacturer, distributor and retailer of high-end women's lingerie and ready-to-wear apparel. The company will implement the Calendar Management, Cost Scenario, Materials Management, Product Specification and Product Sourcing modules of the Centric 8 [PLM software for retail, apparel, footwear, luxury and consumer goods companies](#). Users will include product managers, designers, and members of product development, industrialization, quality control, research and development, and technical development staff around the world.

CIMdata PLM Industry Summary

Rapid growth, two operational models

Until recently, Aubade handled all product design, development and manufacturing, while selling only through channels. Now, the business is expanding rapidly into the retail sector, according to Annie Bureau, Aubade's operations director, and already operates more than 55 stores. This expansion created a need to accelerate product development, and that led the company to select Centric 8 PLM, says Bureau.

To date, Aubade has relied on spreadsheets to manage product development. "As Aubade continues to open new retail outlets and increase the number of collections each year, it is more important than ever to implement a system to help assure reliability and accuracy," says Bureau. "The Centric PLM software is the way to accomplish this."

Aubade will use the Centric PLM suite to accommodate two separate operational models. For its lingerie products, Aubade directly handles product design, development and manufacturing. For day and night ready-to-wear apparel lines, Aubade outsources the manufacturing.

By working with "one version of the truth" about each product, Bureau explains, staff can better track development progress, improve data reliability and increase productivity across all product lines, all departments and all locations. With Centric 8 PLM's ability to integrate with Aubade's ERP system, Aubade can avoid data duplication.

Product development in three dimensions

Aubade works with up to 6,000 SKUs at a time, each requiring very specific sizing measurements. Because the lingerie segment of the apparel industry is extremely technical, some items, says Bureau, can have up to 21 size/cup combinations. A key differentiator of the industry, she explains, is that bras are created in three – not two – dimensions because of the cup. "The measurements, and communications about those measurements, need to be very accurate to match sizes perfectly," says Bureau. "The Centric PLM system is able to manage the complex requirements of lingerie product development and deal with the third dimension."

Aubade also will use the PLM software to improve collaboration with remote suppliers through better progress monitoring and visibility into the product development process that takes place at different sites. "By clearly defining and tracking all product development actions, Aubade will be able to more precisely calculate lead times and costs, and control margins throughout the process," says Bureau.

In its PLM selection process, Aubade also cited Centric's easy-access web-based solution, ability to manage the full Aubade product lifecycle, and [Agile Deployment \(SM\)](#). The implementation methodology, using principles of agile software development, can produce system deployments in as little as three to four months.

"Centric 8 is ideal for a company such as Aubade, specializing in a segment of the apparel industry with such incredibly technical product construction and development," says Chris Groves, CEO and president

CIMdata PLM Industry Summary

of Centric. “The Centric PLM software will allow Aubade to continue its retail expansion more efficiently and effectively. We at Centric are excited about helping a recognized world leader in the development of high-end, stylish lingerie products achieve its goals.”

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Delcam’s PowerINSPECT Integrates Inspection for Aero-Engine Manufacturer

12 July 2013

Standardising on Delcam’s PowerINSPECT program as its sole inspection software has helped Shenyang Liming Aero Engine (Group) Co. Ltd. to implement an enterprise-wide digital inspection platform and so improve the efficiency of its enterprise management systems as well as the quality and consistency of its production.

Founded in 1954 in Shenyang in North-east China, Shenyang Liming is a key part of China’s main aircraft producer, the AVIC organisation. The company manufactured the country’s first jet-propelled aircraft engine and is now one of the most experienced centres for aero-engine manufacture and repair in China. It employs more than 10,000 people.

Like many large organisations, Shenyang Liming uses a range of information systems to manage its manufacturing process, including software for product data management and engineering resource planning. An important part of these processes is obtaining quality-control data and integrating those results into the enterprise-wide systems.

The company found this challenging because it was using a variety of brands of co-ordinate-measuring machines, fitted with various different types of inspection software. The overall result was that the company’s inspection data was fragmented and did not integrate well with the existing information systems. This made it difficult to monitor product quality and, therefore, to identify any areas that needed improvement.

To overcome these problems, Shenyang Liming standardised on Delcam’s PowerINSPECT software, using a combination of PowerINSPECT OMV for on-machine verification on its machine tools and PowerINSPECT CNC for its computer-controlled CMMs. For each piece of equipment, PowerINSPECT has been customised to provide a dedicated inspection system for that machine. Parts are inspected using the appropriate techniques for surface and edge inspection, with comprehensive reports sent to the relevant departments through DNC links. Since many of the staff reading these reports are not metrology specialists, PowerINSPECT’s professional, easy-to-understand reporting is highly valued.

While the main benefit has been the ability to integrate the results seamlessly with its management systems, Shenyang Liming has found many other advantages from its move to PowerINSPECT. Firstly, the staff at the company have found the software easy to learn and easy to use. This has allowed

CIMdata PLM Industry Summary

training to be completed quickly. At the same time, the ability to simulate the complete machine environment and to undertake collision detection on the computer means that users can be confident that the programs they produce will perform efficiently and safely before they are passed to the machine.

Another important factor is PowerINSPECT's ability to read all types of CAD data. This makes it easy for Shenyang Liming to receive design data from the many other manufacturing companies within AVIC.

Similarly, PowerINSPECT can produce programs that are compatible with many machine controllers so there is no need to change machine settings to undertake the inspections. The software's offline programming supports I++ and DMIS standards, and offers many options for customisation for different types of inspection equipment.

The change to PowerINSPECT at Shenyang Liming has improved greatly the efficiency of its inspection processes and the management of all the results. As well as improving the company's efficiency, the software has supported the drive by the company's management to ensure the highest quality in all its products.

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ITC Infotech Implements PTC's FlexPLM for Brooks Sports

11 July 2013

ITC Infotech, a leading global IT services and solutions company, and a fully owned subsidiary of ITC Ltd., has successfully implemented PTC's FlexPLM solution for Brooks Sports. Brooks is a leading US based running company that designs and markets high-performance men's and women's running shoes, apparel and accessories in more than 40 countries worldwide.

ITC Infotech completed the implementation process in a short span of seven months, making it one of the most efficient PLM (Product Lifecycle Management) implementations in the Consumer Products, Retail, Footwear & Apparel sector.

The consumer products industry is faced with growing challenges, including product innovation, speed to market, product and process quality excellence, cost pressures and regulatory compliance. This is true especially in the highly competitive global marketplace, where companies need to deliver the right products of optimum quality, at the right time, and at the right price, while retaining profit margins. A comprehensive PLM solution that addresses industry challenges along with an expert implementation partner can transform businesses in this sector. PTC's FlexPLM product and ITC Infotech's implementation services addresses both industry-specific challenges and everyday business specific issues.

CIMdata PLM Industry Summary

Commenting on the implementation, Ms. Gina Harris, Director of Information Technology, Brooks Sports, said, “After selecting PTC FlexPLM, we searched for a company with implementation experience in our industry. We were eager to complete the implementation within very tight timelines. Partnering with ITC Infotech enabled us to achieve a successful on time go-live. ITC Infotech presented the right credentials, customer references, top notch resources and capabilities. We are very pleased with their consultative approach to implementing FlexPLM and with the end result - a system which can scale with our growth and support all our product lines.”

Mr. L N Balaji, President – North American Operations, ITC Infotech, said, “We are extremely delighted to partner with Brooks Sports and offer customised services for them. ITC Infotech has enjoyed a long-standing relationship with PTC and, over time, we have worked with some of the biggest Retail, Footwear & Apparel (RFA) companies across the globe. For the Brooks Sports implementation, we have incorporated best practices accrued from our in-depth experience of implementing FlexPLM over the years which will provide them the competitive advantage of collaborative design and faster time to market.”

ITC Infotech and PTC have a long standing relationship that spans over a decade. Today, ITC Infotech helps PTC implement its projects around the globe, providing end-to-end services and support. ITC Infotech’s expertise in PLM (Product Lifecycle Management) is unparalleled, with over 850 implementations of PTC PLM products.

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Michelin adopts TraceParts 3D Enterprise Content Management solutions

9 July 2013

TraceParts today announced the global deployment of its 3D Enterprise Content Management solution within Michelin’s Mechanical Engineering Design Offices. To turn out nearly 200 million tires every year, Michelin employs some 2,000 people worldwide to handle the design, maintenance and operation of thousands machines at Michelin and subcontractor sites on every continent.

Using TraceParts since 1995

Michelin has been using TraceParts 2D and 3D component content since 1995. To prevent designers from getting mired in electronic and printed catalogues offered by manufacturers, the Michelin Parts Library (MPL) was already limited to components that had been approved and codified by the Michelin Methods department. The approved components were associated with a classification, a bilingual “group” description, and simplified 2D and 3D representations.

MPL Michelin Parts Library: “Methods” driving standardization

Manuel Calamote, Mechanical Methods Manager at Michelin, explains why standardization matters: “It naturally limits the diversity of parts used on our machines around the world, and the potential benefits in terms of costs and productivity are enormous: a purchasing policy centered on suppliers recognized for the quality, reliability and price of their articles, the rationalization of supplies, the optimization of stocks for machine operation and maintenance, etc. Not forgetting, of course, faster and more efficient

CIMdata PLM Industry Summary

design processes thanks to a large database of standardized components.”

In 2010 Michelin invited TraceParts to submit a RFQ for a new MPL project that specified a number of objectives that reflect its continuous improvement initiative:

- To provide in-house and at subcontractor machine designers with a comprehensive online component library of 2D and 3D CAD models that integrates seamlessly with their existing PDM solution;
- To update the online component library in real time as required by the Methods department;
- To provide the global mechanical design offices with an open selection process, during the CAD phase of a project, that conforms to the component prioritizing system specified by the methods department: standardized, restricted use, prohibited or obsolete;
- To automate engineering requests to the methods team when the use of a non-standard component is needed;
- To deliver an interactive workflow, between designers and methods experts, for tracking, justifying, monitoring the processing of requests, and reporting component non-conformity;
- To be able to combine components from different suppliers, in the same Michelin item code, to facilitate interchangeability or integrate regional constraints within a tolerance defined by the methods team.

Judith Noyelle, IT Support Manager for the Design Office teams, headed the project, which is now being rolled out: “We want to provide our hundreds of designers, in-house and at our subcontractors, with a modern tool that reminds them of the importance of standardization for the Group while helping them design new machines more quickly and more efficiently. Specific requests from the Design Office for market components should be processed by the Methods department within 7 days. That doesn’t mean that the part will be standardized in that time. Methods may propose an alternative from among the listed components or suppliers, or they may decide to incorporate the component into the MPL database. In any case, a process will be initiated to find the best solution, and the request will be followed up.”

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SIDEL Achieves Unparalleled Productivity Gain with NCSIMUL Machine

11 July 2013

SPRING Technologies, vendor of solutions that boost productivity of CNC machines, present a new testimony of one of his long-standing customer, SIDEL.

A leading global provider of PET liquid packaging solutions, SIDEL, offers its customers a complete range, from packaging design through line engineering, including packaging machinery and associated services.

COMPANY OVERVIEW

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With 31 subsidiaries, 26 plants worldwide, and a workforce of around 5,300, SIDEL offers its customers high added-value solutions based on its business-specific knowhow, its teams and geographic proximity. This enables the company to quickly and easily plan and implement the engineering, packaging, design, tooling and services.

SIDEL's corporate philosophy is embodied in key principles: improve production, boost productivity, and cut costs, whether for end-users or in-house.

The production site at Octeville Normandy, is one of the group's seven mold-making facilities. It produces blow molds made up of seven main parts: centering ring; mold body; stud; mold base; wear ring; wear washer; arch support.

CHALLENGES

SIDEL has state-of-the-art production resources to match its market leadership. For example, its Octeville site, with 10 programmers, has 63 CNC machine tools – (DMG, MCM, etc.), 2,000 milling and turning tools and two CAM solutions for these disciplines.

The challenge was to eliminate problems with production tools by validating the programs upstream (ISO code, measuring probe program, XYZ axis travel, comparison between the machined model and the original CAD design) and postprocessor modifications, while integrating these technologies into the existing environment. To do this, SIDEL turned to SPRING Technologies and the NCSIMUL Machine simulation solution that it has been using for 13 years.

A PARTNERSHIP FOR 13 YEARS

To do this, SIDEL trusted SPRING Technologies and its NCSIMUL machine solution for the machining simulation for 13 years.

Today SIDEL Group uses 12 NCSIMUL Machine workstations at its site in Normandy. The time savings are tangible, quantifiable and have proved to be substantial: some 15,000 hours per year!

The keys to this success have been the reliability of the computation and simulations performed by NCSIMUL Machine; tests on the first machined parts; and better management of the huge number of production tools used. Franck Kerouille, in charge of Industrialization & Method - Central Tooling at SIDEL adds: « We are sure to generate a ROI in just five months, a result that is totally in line with our corporate culture in terms of cost optimization and productivity. »

GOING FORWARD

SIDEL plans to deploy NCSIMUL Machine in all the group's mold-making plants worldwide. It will also deploy OPTITool, the SPRING Technologies solution for analysis and cutting conditions optimization at the Octeville site and in China.

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Product News

AVEVA Offers a Road-Map for Owner Operators to assess their Information Management Strategies

8 July 2013

AVEVA today announced its release of a new business paper: ‘*Defining an Engineering Information Management (EIM) Strategy by means of a Maturity Model*’. The paper explains how an EIM Maturity Model can help Owner Operators assess their current Information Management capabilities and to identify an effective strategy for raising them to best-practice status.

Owner Operators in the process plant and power industries need a sophisticated means of managing the vast quantities of continuously evolving information used throughout the lifecycle of their assets. The new business paper defines a five level maturity model for Information Management across typical key business functions. This practical, working guide enables an organization to rank its current capability in order to plan a progressive, focused programme to develop the use of its entire information asset to help ensure and demonstrate regulatory compliance and improve safe, efficient operations.

“Effective EIM is extremely challenging given the large number of systems that generate and store engineering information and the many complex business processes that rely on this information,” said Derek Middlemas, COO & Head of Enterprise Solutions, AVEVA. “Rather than prescribing a one-size-fits-all approach, this unique methodology helps our customers to break down, assess and solve their current Information Management challenges in a manageable, stepwise manner that aligns with their specific business goals. It also encourages the use of existing technology investments to gain early and significant benefits.

“Engineering information deteriorates rapidly if it is not rigorously managed and controlled, increasing operating costs and leading to safety hazards. We believe that adopting the Information Engineering recommendations described in this maturity model will enable access to, and robust management of, all types of engineering information throughout the entire operational lifecycle.”

The paper defines the characteristics of the five levels of Information Management maturity and provides recommendations for how to progress to successive levels. It also summarises how such an EIM strategy can be progressively executed using Information Management solutions from the AVEVA Enterprise portfolio.

To download the business paper, or for more information on the AVEVA Enterprise portfolio, visit www.aveva.com/maturity_model.

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Bentley Announces Immediate Availability of the Bentley Map Mobile App, Further Enhancing Information Mobility

11 July 2013

Bentley Systems, Incorporated, today announced the immediate availability of [Bentley Map Mobile](#), empowering users to view and act upon [Bentley Map](#) geospatial information through mobile devices. With this powerful new Bentley App, infrastructure professionals can readily share geospatial data with non-GIS specialists in the field, including installation and maintenance teams, construction and engineering technicians, and inspectors. This enhanced information mobility provides these specialists with continuous, real-time access to up-to-date geospatial information about the landbase; utility, telecommunications, and transportation networks; and other spatially managed infrastructure that they support in the field. The first release of *Bentley Map Mobile* runs on Android-based devices.

Commenting on why the Philadelphia Water Department is looking forward to employing *Bentley Map Mobile*, Thomas Kaufmann, PWD's engineering plans design supervisor, said, "We will have the ability to take our infrastructure geospatial data out in the field, with all the attribution attached and searchable. The map is geocoded so it uses the tablet's GPS capabilities to move the map to where you are located – all without WiFi or a data plan!"

Harry Vitelli, Bentley vice president, construction and field, said, "A few years ago even we at Bentley couldn't have imagined having a tablet device in the field that contains the full landbase for an entire country and that offers lightning-fast queries in an easy-to-use form factor. *Bentley Map Mobile* supports our mission of sustaining infrastructure by ensuring that field professionals need not sacrifice even a small level of performance for the sake of information mobility that enables them to find and improve infrastructure assets, anytime, anywhere – whether or not they are connected."

Bentley Map Mobile works with Bentley's next generation of i-models (containers for open infrastructure information exchange) that can now package geospatial information for use on mobile devices. The new i-models use the SQLite software library to deliver unmatched performance on virtually all mobile devices. Representative applications that can publish i-models include [Bentley Map Enterprise](#), [Bentley Utilities Designer](#), and Bentley's communications products, including [Bentley Coax](#), [Bentley Copper](#), [Bentley Fiber](#), and [Bentley Inside Plant](#).

Bentley Map Mobile provides the following functionality:

- fast access to large geospatial data sets;
- easy-to-use, standard tablet-based gestures such as pinch to zoom, swipe to drag, point to select features, etc.;
- simple query mechanism to look up features quickly;
- GPS integration for fast location in the field;
- Google Maps integration for directions to located features (with network connection);

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- disconnected, view-only operation for access anywhere, without a network connection;
- raster and vector display.

The advantages of *Bentley Map Mobile* include:

- improving the quality of decisions made by field personnel by providing quick access to accurate, up-to-date asset information;
- increasing worker safety by having access to current information as well as information on adjacent utilities that might have an impact on the work they are completing;
- increasing the return on investment in geospatial data by making this valuable data available to an entirely new group of users.

Bentley Map Mobile empowers field technicians by giving them untethered access to the most recent geospatial asset information on their mobile devices. It also helps them respond to emergencies and maintenance issues more quickly, reducing disruptions and increasing uptime for utilities and other infrastructure assets.

Bentley Map Mobile is available to all *Bentley Passport* holders at no additional charge and can be accessed at www.bentley.com/BentleyMapMobile.

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BETA CAE Systems S.A. Announces the new v14.1.2 Release of the ANSA & μ ETA Pre- & Post-Processing Suite

11 July 2013

BETA CAE Systems S.A. announces the release of v14.1.2 of its ANSA & μ ETA pre- and post-processing suite. This maintenance release focuses on the correction of identified problems and issues for ANSA and μ ETA. The most important resolved problems and new features are listed below.

New features, Enhancements and Known Issues Resolved in ANSA

Enhancements in ANSA

- A new User Defined Function called PostWrapFix included in the CFD_ANSA_TRANS� that performs automatic fix of the surface wrap mesh to eliminate intersections, flipped elements, proximities and quality violations.

Known Issues Resolved in ANSA

- Layers: Major fixes regarding proximity, smoothing, and side auto-connection
- Connection Manager: the “Do not move” option of “FE Rep Settings”, would block the realization of certain FE representation types

CIMdata PLM Industry Summary

- Reconstruction of Bolt zones would not work for 2nd order elements
- Shell mesh reconstruction would affect the connectivity between shell and solid elements
- Dummy: Move limbs would lead to unexpected termination
- Pedestrian: Positioning would generate wrong named files when master file had no extension
- Nastran load creation through scripting could lead to unexpected termination
- PERMAS: Wrong export of masses would be applied for “Per element” and “Per Area” options

For more details about the new software features, enhancements and corrections please, refer to the [Release Notes](#) document.

New features, Enhancements and Known Issues Resolved in μ ETA

Known Issues Resolved in μ ETA

- Unexpected termination when using the “Small Displacements” reading option in certain cases
- Abaqus models with the *MODEL CHANGE keyword would not be displayed correctly during animation
- ADINA *.op2 files: certain results would not be read correctly
- ANSYS files: results from PSD analysis would not be read correctly
- MEDINA files: complex results would not be loaded correctly on solid elements
- LS-DYNA spout time histories: not all results would be read
- Permas .bof files: wrong tensor results would be read if both Top and Bottom results existed
- RADIOSS time histories: beam and truss would not be read correctly
- JT files would be exported with millimeter length units

and more...

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Bricsys Announces Version 8 of Bricsys LGS 2D & 3D Component Technology

9 July 2013

Bricsys, a global provider of dwg engineering design software brought to market under the BricsCAD® brand, released V8 of the Bricsys LGS component technology, a set of computational software libraries used by developers of CAD, CAM, CAE applications for implementation of geometric and dimensional constraint support.

Originally acquired from LEDAS, continuous improvement of the LGS 2D & 3D component technology is now led by the Bricsys development team in Novosibirsk, Russia. The technology is available for integration by CAD/CAM/CAE software developers worldwide, and has been embedded in the BricsCAD software itself since V12. As such it is used by thousands of BricsCAD users for parametric

CIMdata PLM Industry Summary

drawing, variational direct modeling, assembly design, and kinematic simulation.

To simplify development and support, Bricsys has unified the release cycles of LGS 2D and 3D, and now uses the same version number for both components. The latest release, version 8.0, incorporates significant improvements in performance, solvability and naturalness of solutions.

In particular, LGS 2D V8.0 provides:

- better diagnostics for geometric objects and constraints
- a more natural solution for where a line is tangent to a spline at its endpoint
- improved auto-constraining functionality for segments (available as part of the LGS Profiles extension module)
- bug fixes in the equation simplification method

LGS 3D V8.0 delivers several improvements in the pattern-based problem decomposition methods, which are essential for natural behavior of the solver. In particular, cases with tangency constraints between cylinders, spheres, and planes are now solved more naturally. V8 also solves several problems submitted as support requests by application development customers.

“Constraints became a de facto standard for CAD applications a long time ago,” said Dmitry Ushakov, CEO Bricsys Technologies Russia. “While we guarantee the high quality of our LGS solvers for traditional applications, including parametric drawing/sketching in 2D and assembly design/kinematic simulation in 3D, our main focus is now on a new and promising application of constraints – direct modeling. With variational direct modeling users can benefit from the best of two worlds: the power of parametric history-based modeling and the freedom of direct modeling. LGS solvers can efficiently work in combination with any solid modeling kernel available on the component market.”

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CimatronE 11 Features Proven Ultra-high Performance Material Removal Technology

10 July 2013

[Cimatron Limited](#) has announced the integration of Celeritive's proven ultra high-performance toolpath technology, VoluMill, into CimatronE 11, the latest version of its acclaimed integrated CAD/CAM solution.

"Cimatron is committed to providing the very best technology available to promote reliability, accuracy and speed throughout the production process," said Mr Ira Bareket, Cimatron's VP Sales and Marketing. "One of the most outstanding technologies that we have integrated into the latest version of our CimatronE solution is VoluMill, which provides shorter machining times while reducing tool wear. "Operating in tandem with other CimatronE functionality, VoluMill maximizes material removal rates, offering up to three times faster machining, as well as prolonging the life of the tool."

CIMdata PLM Industry Summary

The technology is available for two separate strategies in CimatronE:

- Pocket VoluMill- supports open pockets, 2D rest milling, and slotting or side-mill.
- Rough VoluMill - supports holder collision prevention, 3D stock update, and advanced between layers calculations.

The technology uses a high performance algorithm generating a high volume, yet constant material removal rate toolpath with smooth, stress-free moves between cuts, and cutting in sweet zones throughout, regardless of part shape. This results in dramatically shorter machining time and longer tool life.

"Cimatron's other leading machining solution, GibbsCAM, also features a VoluMill option, and GibbsCAM customers have seen tremendous gains as a result," said Mr Bareket.

CimatronE 11 also features a large range of enhanced and new functionalities across CAD and NC programming for mold and die makers and discrete part manufacturers. Further information is available at <http://launch.cimatron.com>.

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Dassault Systèmes Introduces EXALEAD OneCall to Transform Customer Interactions into Business Growth

11 July 2013

Dassault Systèmes announced its new EXALEAD OneCall application. EXALEAD OneCall offers frontline sales agents the best way to transform customer interactions into profitable business growth. It lowers average call length and increases first-call resolution rates, leading to efficiency improvements and higher customer satisfaction.

As consumers become better-informed about the purchasing options available to them, the volume and complexity of questions are increasing. These questions come from multiple channels, and the data to help answer them is found via many different systems and technologies. This makes it increasingly difficult for frontline agents to effectively answer customer questions.

The EXALEAD OneCall application transforms contact center operations by providing customer-facing agents with the data and information they need to succeed when interacting with well-informed consumers. Whatever the data type or location – Internal (e.g. Customer Relationship Management or Enterprise Resource Planning systems) or external (e.g. websites or social networks), structured or unstructured – EXALEAD OneCall aggregates, streamlines, and delivers rich information “in context” to contact center agents and managers. Faster call resolution and shorter call lengths are critical for delivering the best service experience possible and engaging customers.

CIMdata PLM Industry Summary

"EXALEAD OneCall provides our operators with a new level of efficiency in their interaction with customers. We've moved from nine applications to a single interface bringing together all relevant and in-context information in order to respond effectively," said Mr. Bamba, Managing Director, Orange Côte d'Ivoire Telecom. "Calls are optimized and handled more smoothly. Beyond customer satisfaction, EXALEAD OneCall has also allowed us to reduce the cost of a call by about 30 percent!"

Powered by Dassault Systèmes' 3DEXPERIENCE platform, this new agile business application is complementary to existing Customer Relationship Management software. It brings all relevant information about the customer and the sold products directly to an agent's desktop in a simplified way, such as natural language and semantic discovery, customer history, multi-channel look-up, and contextual cross-selling/upselling. The EXALEAD OneCall application also offers a number of highly-useful operational tools to managers, including single screen viewing of team and agent activities, real-time operational dashboards and analytics, as well as consolidated KPI and trend reporting.

"With EXALEAD applications, Dassault Systèmes is delivering data intensive business discovery applications to industries which are becoming increasingly socially networked and enabled. Our customers are looking for a true, multi-channel, 360 degree view of their customers that is complementary to existing siloed solutions," said Laurent Couillard, CEO, EXALEAD, Dassault Systèmes. "We worked closely with our customers to develop a unique solution to help them positively engage more customers more quickly and close more business."

EXALEAD OneCall is currently available. Local resellers and systems integrators already selling or installing it include Business & Decision, Capgemini, Dahu, DTI Management AG, Keyrus, Kerensen Consulting, Keyrus Tunisie, Micropole, Persistent Systems, PUMACY Technologies AG, Raqmiyat LLC, ST Groupe.

For more information, visit: www.exalead-onecall.com

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"Express 3D" Released on CCE Labs Portal for Viewing Multi-CAD Data

11 July 2013

CCE announces the immediate availability of Express 3D, a free multi-CAD viewer that supports viewing of all major 3D CAD systems without the need for a license of the CAD system. Express 3D supported file formats include CATIA V4, CATIA V5, CATIA V6 (.3dxml), NX, SolidWorks, Pro/ENGINEER (Creo), Inventor, Solid Edge, JT, Parasolid, STL, VDA, IGES and STEP.

"Everyone talks of democratizing CAD data within the enterprise and across the supply chain, but then it all comes with a price tag," said CCE's VP of Sales & Marketing, Vinay Wagle. "Express 3D is the latest addition to a list of free software on our Labs portal. Our free software tools on Labs, allow

CIMdata PLM Industry Summary

everyone to leverage multi-CAD data at absolutely zero cost."

Express 3D viewers display the data as represented in the CAD file. Geometry views include the entity tree, assemblies with product structure, colors, reference entities & annotations. The viewers also have options to display standard views, manipulate camera operations, shade modes and more.

Available advanced tools help users perform accurate measurements, compute mass properties, study cross-section details, view product information, access parent-child relationships, and collaborate using markup and redlining.

For more information on CCE Labs and to download your free copy of Express 3D, visit <http://www.cadcam-e.com/Labs>.

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eQuorum Announces Release of ImageSite Version 8.5

10 July 2013

ImageSite is a comprehensive, yet easy to use Document Management system that automates distribution and collaboration of engineering data across the corporate enterprise. ImageSite offers full Design, Release and Archive functionality for popular CAD formats like Inventor, SolidWorks, AutoCAD, and MicroStation. In addition, ImageSite extends design oriented Product Data Management (PDM) systems with lifecycle based Release Document Distribution and Collaboration for the entire organization.

CAD files are just the start of the engineering document management challenge for Manufacturing, Utility and AECO firms. ImageSite provides secure storage of digital files with a configurable product or project data structure. This includes ISO standards, conformance certificates, QA test results, manufacturing instructions, engineering change orders, vendor/customer correspondence and more. ImageSite's extensive distribution, collaboration and workflow capabilities then enable highly efficient work processes by users from all departments, including both internal and external collaboration.

Introducing ImageSite Mobile

ImageSite Mobile is eQuorum's extension of its well known document management software into the mobile world, making an organization's documents and drawings accessible to anyone with a mobile device, whether an iPad, Android tablet, or other common devices. ImageSite Mobile provides instant access to important corporate documents and drawings on today's most popular mobile tablet devices. View drawings and documents using Wi-Fi or cellular connections to the ImageSite server while in the field, on the shop floor, or while traveling. Download documents to your tablet device for use when you can't connect from remote field locations or when traveling.

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Introducing eSync=Site

eSync=Site™ is eQuorum's newest module for the ImageSite suite of products, allowing the synchronization of folders and files across multiple servers and locations, with comprehensive ImageSite security built in. Distributed files are automatically kept up-to-date regardless of who revised them on any synced server.

eSync=Site provides users with the highest possible performance through access to locally stored large files while enabling a global view of all files across independent systems. eSync=Site synchronization to an external (Internet connected) ImageSite server provides tremendous benefits for secure distribution and collaboration with external users, such as vendors, contractors, and customers. This also is a great way to provide mobile device access to internally stored files through similar synchronization with an external (Internet connected) ImageSite server, either cloud based or outside the corporate network. Finally, eSync=Site can be used to establish an archive or disaster recovery site that is automatically synced and maintained. Best of all, eSync=Site is a free module in ImageSite 8.5.

Autodesk Vault Integration

eQuorum now provides direct integration to Autodesk Vault, making ImageSite a perfect solution for organizations that use Vault for design data management but need a more cost effective and easy to use solution for the rest of their organization. ImageSite extends Autodesk Vault with lifecycle based document control and release functions, automatically generating DWFs or PDFs of approved files and making them available for non-design users to search, view, markup, print and collaborate, both internally and with outside vendors, suppliers and customers.

Expanded Product Data Management capabilities

Version 8.5 expands ImageSite's Product Data Management capabilities with enhancements to the SolidWorks and Inventor Connector Modules.

ImageSite CAD Connector enhancements include an Autodesk Inventor Add-In for ImageSite Explorer (Inventor V2012 and V2013). Inventor files can now be published directly to DWF format. In addition, a Solidworks 2013 Add-In is now available for ImageSite Explorer.

The integrated ImageSite viewer has also been enhanced to include greater PDF fidelity and increased control of the viewable output (including EMF, TIF, or TIF Group 4 viewable versions of PDF files). 3D DWF files can also be viewed within the ImageSite Viewer using any web based DWF viewer such as Autodesk's Design Review.

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Ideate, Inc. Releases Vastly Enhanced Ideate Explorer for Revit 2013.3

9 July 2013

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Ideate, Inc., a Autodesk Authorized Developer and Autodesk solutions provider offering quality software, training, support and custom consulting services for Building Information Modeling (BIM) to the Architecture, Engineering and Construction (AEC) industries, announced a new release of Ideate Explorer for Revit, the Autodesk Revit add-on that lets users explore, quantify and manage the more than 100,000 building elements in an Autodesk Revit file.

Ideate Explorer for Revit 2013.3 is a significantly enhanced release over previous versions. Its productivity-related improvements and enhancements support several important workflows:

- It is three times faster than previous versions, with ultra-fast launch and ability to speed through mega files
- Added pre-defined filters let users find Model, Annotation or Audit elements
- Users can create custom filters for use in making parameter-specific selections
- A new, improved user interface provides even more time- and click-savers:
 - A smaller dialog that remembers user preferences
 - Improved, faster Export to Excel
 - Check All/Uncheck All—a faster one-step operation
 - Ability to isolate Elements from within Ideate Explorer
- Enhanced information about CAD Links and Imports

Glynnis Patterson, Ideate Director of Software Development says, “Ideate Explorer for Revit is designed to help the everyday Revit user navigate quickly through the building information model and to assist BIM Managers in performing regular project audits. These audits are vital to the health of the Revit project and can now be done in less time due to our significant performance improvements.”

Bob Palioca, President, Ideate Inc., says of this latest release, “We develop our solutions to contribute to our customers’ success. We are delighted with this highly intuitive, greatly enriched, more powerful Ideate Explorer for Revit.”

Revit users can test drive the software with a 30 day free trial, and can also register for Free Online Training with no purchase required. Those who already have Autodesk Revit 2014, pre-2013 versions of Autodesk Revit, or who are interested in network licensing options can contact explorer.sales@ideateinc.com.

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IMAGINiT Utilities for Vault Client and Vault Server 2014 Now Available

9 July 2013

[Rand Worldwide](#) announced that its [IMAGINiT Technologies](#) division has released the new Vault Metadata Update Utility for IMAGINiT’s Utilities for Vault Server. In addition to the new Utility,

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IMAGINiT has also made productivity enhancing updates to the existing [Utilities for Vault Server](#) and [Utilities for Vault Client](#) including compatibility with the 2014 version of [Autodesk Vault](#).

“We hope to raise the bar with each new Utility that we deliver as well as with the enhanced functionality that we continue to add to our existing Utilities,” says Bob Heeg, executive vice president, IMAGINiT Technologies. “Our Utilities for Vault Server and Vault Client are specifically designed to alleviate some of the burden associated with data management tasks on IT managers and design professionals, allowing them to extend the power of their Autodesk Vault software investment.”

New Utility Available in Utilities for Vault Server 2014

A new Utility is now available inside IMAGINiT Utilities for Vault Server 2014. It is the new ***Vault Metadata Update*** which enables users of Vault Server 2014 to export and import data from a spreadsheet – including descriptions or part number changes – eliminating the need to manually enter items into the data management system. Instead, users can simply run an export to an Excel spreadsheet, fill in the missing data and re-import the data from the spreadsheet, resulting in significant time savings. The ability to easily share the data for review once it’s on a spreadsheet improves the accuracy of the data.

Enhancements to the IMAGINiT Utilities for Vault Client 2014

- The ***Create PDF*** tool has expanded abilities to generate PDFs from Inventor IDW and DWG as well as AutoCAD files at the press of a button using the Job Processor.
- The ***Batch Checkout*** offers a simple method of checking out multiple files at once, offering superior version control and improving workflow across the entire team.

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InfiniteSkills Release "Revit Architecture 2014 Tutorial" a Definitive Training Course That Teaches Core Skills in This BIM Application

7 July 2013

Software training firm InfiniteSkills Inc. last week introduced its "Learning Revit Architecture 2014 Tutorial," an introductory course teaching basic Revit functionality for architectural modeling.

Revit is a three dimensional architectural design modeling program that allows users annotate models with 2D drafting elements and access highly detailed building information from a building models database. Revit has tools for planning and tracking a modeling through the various stages of building life-cycle from design to construction and demolition.

InfiniteSkills' Learning Revit Architecture 2014 Training Tutorial provides a solid foundation in this sophisticated software, teaching basic tools and features involved in modeling a building, including some advanced tools for viewing and publishing models.

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Course author Brian Myers has been working in Autodesk for more than two decades, starting in version 9 in 1989. For the last seven years, he has focused on Autodesk Revit, working in all of its various editions. Myers was one of the first certified instructors for Revit Architecture, in an addition to his private training practice, Myers has published several video training series and edited two books. He is also the founder of Revit Users, a Revit support community found on LinkedIn.

After a brief introduction to navigating Revit's user interface, Myers explains how to get started creating a model in Revit, explaining templates, working with a project origin and location, and other factors involved in the initial file creation.

The course then proceeds by teaching various fundamental design elements. Students will learn to work with column grids; how to create, place, and add detail to various elements such as walls, doors, and windows, and other elements, like floors, roofs, and ceilings.

Myers also covers some of Revit's more advanced features, offering a taste of its capabilities to model all phases of a building's life cycle as he explains 3D views, working with elevations and sections, how to create sheets, and work with viewport titles.

The course also covers basic publishing capabilities such as printing, exporting to AutoCAD, and linking files to AutoCAD.

Free demo videos and a full list of course contents can be found on the Learning Revit 2014 Architecture training page on the company website:

<http://www.infiniteskills.com/training/learning-autodesk-revit-architecture-2014.html>

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Luxion Partnership Brings Mold-Tech Textures to KeyShot

9 July 2013

Luxion partnership with Mold-Tech, a Standex Engraving Group company and leader in texturizing and engraving in the automotive, plastics and consumer product industries, is pleased to announce an exclusive partnership that brings Mold-Tech textures to KeyShot.

First available within KeyShot 4, Mold-Tech textures deliver realism and accuracy for a variety of textured appearances. As with all the materials, colors and other textures inside KeyShot, Mold-Tech textures are applied as part of a new Mold-Tech material via the KeyShot Library with a simple drag-and-drop of the texture onto the object. All updates are seen in real time with options available in the Mold-Tech material properties to change color, roughness, scale and depth of the grain. Additionally, in an industry first, all patterns scale accurately with the size of the model.

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“Mold-Tech is pleased to be collaborating with Luxion to provide the design community with advanced 3D rendering of select Mold-Tech patterns which are part of our extensive Mold-Tech library.” Says Bill Meike, Mold-Tech Director of Sales, “We look forward to enhancing the experience and capabilities of designers when considering creative texture designs as a cosmetic value or a functional property.”

“Luxion is proud to have KeyShot as the only source for accurate representation of Mold-Tech textures inside a rendering application,” says Henrik Wann Jensen, Chief Scientist at Luxion, “With hundreds of textures and all the options to refine the appearance, KeyShot brings a level of realism to product visuals that can’t be matched.”

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Missler Software and Haas Automation Europe collaborate closely on 5-axis machining

9 July 2013

Missler Software and CNC machine tool builder Haas Automation have increased collaboration towards the development of an easy-to-use, affordable, high productivity 5-axis machining solution. The French CAD/CAM software vendor Missler Software developed and tested a powerful, specific 5-axis TopSolid'Cam post-processor that is perfectly adapted to using and programming the new Haas UMC-750 universal machining center for 5-axis positioning and full 5-axis continuous machining.

“Thanks to this cooperation, companies have access to an easy-to-use, yet precise 5-axis simultaneous machining solution, capable of delivering high performance and reliability coupled with a high degree of flexibility”, says Dominique Laffret, Vice-President of Strategic Relationships at Missler Software. “The UMC-750/CAD-CAM TopSolid'Cam package offers a concrete response to the needs of companies who want to make their machining operations faster and easier and thereby achieve significant productivity and time gains.”

“TopSolid'Cam offers flawless ISO programming for successful production on the Haas UMC-750”, Bert Maes, Marketing Manager at Haas Automation Europe adds. “We have worked closely in setting up a series of simulation tests. The results have shown that TopSolid'Cam software perfectly fits the programming requirements of the UMC-750. In addition, the tests have shown that the Haas UMC-750 can handle the most difficult parts developed by Missler Software in its category. The Haas UMC-750 in combination with the UMC-750/CAD-CAM TopSolid'Cam package offers manufacturing companies a truly easy and reliable answer to their 5-axis machining needs.”

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MSC Software Reinvents Materials Lifecycle Management with MaterialCenter

9 July 2013

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[MSC Software Corporation](#) today announced the launch of [MaterialCenter](#), a Materials Lifecycle Management System that manages materials processes and data with full traceability across the enterprise and throughout the product lifecycle.

Going beyond traditional 'Materials Data Management', [MaterialCenter](#) is designed from the ground up to meet the demanding integration and scalability requirements of ICME (Integrated Computational Materials Engineering), the interface between materials engineering and virtual product development. Through deep integration with MSC Software solutions and third party simulation tools, MaterialCenter aims to drive down the cost of physical test by providing the ability to virtually engineer your next generation advanced materials. The browser based interface is designed to be easy to use, configurable, with the ability to provide required access controls across the enterprise. The CAD and CAE pre- and post-processor integration helps improve the product development team's efficiency and promote uniformity across the development groups.

"Our goal is to blur the boundary between material engineering and structural engineering, allowing for more pervasive use of advanced materials while helping manufacturers to dramatically reduce the cost of physical testing needed to validate a new material system," says Dominic Gallelo, President & CEO of MSC Software Corporation. "Physical testing costs are exploding and no aerospace or automotive material process can exist going forward without truly incorporating materials designed and tested virtually."

The first release of [MaterialCenter](#), available now, includes the following features to help companies manage their material processes and data:

- A complete Materials engineering traceable workflow, addressing:
 - Import of physical test data import
 - Data reduction
 - Approval workflow
 - Published engineering allowables
- Deep bidirectional integration with Microsoft Excel
- Full materials traceability
- Bidirectional integration with MSC's Mvision
- Configurable security model that provides global and discrete access control
- Easy web based access integrating to your enterprise that is easy to deploy, configure and setup
- Extensive material libraries with simulation ready data
- Robust open platform for integrating materials information into your entire product environment, including CAD, CAE, PLM systems.

[MaterialCenter](#) is the latest in the suite of product offerings from [MSC Software Corporation](#) to address the exponential growth of the use of materials in driving product innovation that includes its flagship

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products, MSC Nastran, MSC Fatigue, Marc, Fatigue Testing Services, and the newly acquired e-Xstream engineering's Digimat.

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OASIS Approves New Version of CMIS Standard for Content in the Cloud

1 July 2013

The OASIS international consortium announced the approval of version 1.1 of Content Management Interoperability Services (CMIS), a broadly adopted open standard that enables information to be shared across Enterprise Content Management (ECM) repositories from different vendors. CMIS 1.1 is now an official OASIS Standard, a status that signifies the highest level of ratification.

CMIS frees content trapped in traditional "content silos" and facilitates "content in the cloud" and mobile computing. The standard is designed to be easily layered on top of most content management systems to provide a common interface for generic content management functions.

"CMIS has been a key enabler of multivendor connectivity in the ECM world. Making it easier to interconnect and leverage content repositories in the cloud is the next wave as companies embrace the cloud in all of its permutations -- whether via public clouds, private clouds, or hybrid cloud/on-premise architectures -- to improve the productivity of their information workers and streamline their document-intensive business processes," said IDC's Melissa Webster, Program Vice President, Content & Digital Media Technologies for the analyst firm.

"CMIS has been a game-changer for the market ever since version 1.0 was approved in 2010. Repository vendors across the board now offer CMIS services for their products, and application developers use CMIS to access and manage content. CMIS 1.1 was developed to directly address feedback gained from this broad knowledge base of experience," said David Choy, chair of the OASIS CMIS Technical Committee.

Functionality added in version 1.1 includes type mutability, which allows CMIS clients to create, modify, and delete type and property definitions for repositories. Supports for object retention and hold are added. Named sets of properties can now be dynamically added and removed from individual CMIS objects. Very large uploads of document contents can be broken into smaller calls to append content. Repositories can now list supported extensions or additional CMIS-based standards for CMIS clients to discover. A JSON-base protocol binding is also added to facilitate browser-based CMIS clients.

Alfresco Software, SAP, and the Apache Chemistry OpenCMIS all verified implementations of CMIS 1.1, in accordance with OASIS policy.

CMIS is offered for implementation on a royalty-free basis. Participation in the OASIS CMIS Technical Committee is open to all companies, non-profit groups, governments, academic institutions, and individuals. As with all OASIS projects, archives of the Committees' work are accessible to both members and non-members, and OASIS hosts an open mail list for public comment.

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TSMC Expands Collaboration with Cadence on Virtuoso Custom Design Platform

8 July 2013

HIGHLIGHTS:

- TSMC to create and deliver native SKILL®-based PDKs in support of the Cadence® Virtuoso® platform to provide customers with the best user experience and highest level of accuracy
- World's leading foundry deploys Virtuoso platform for custom design needs in advanced nodes, including 16-nanometer FinFET designs
- Key tools include Virtuoso Schematic Editor, Analog Design Environment, Virtuoso Layout Suite XL and advanced GXL technologies

In an effort to address the increasing complexity associated with advanced node designs, Cadence Design Systems, Inc., today announced that TSMC has expanded collaboration with Cadence on the Virtuoso custom and analog design platform to design and verify its own cutting-edge IP. Additionally, TSMC has extended its native SKILL-based process design kits (PDKs) portfolio to 16 nanometers, creating and delivering fully qualified and high-quality native SKILL-based PDKs to enable all the leading-edge features of the Virtuoso platform. To allow customers to fully maximize performance and quality of results, the new PDKs enable leading-edge features within the Virtuoso 12.1 platform, such as auto-alignment, automatic handling of complex rules during abutment, chaining devices, support of color-aware layout, and advanced routing.

“We have continued our major investments in advancing the Virtuoso platform to address the ever mounting design challenges. We worked closely with TSMC and our customers to enhance and deliver on advanced node and mainstream design requirements,” said Dr. Chi-Ping Hsu, senior vice president, research and development, Silicon Realization Group at Cadence. “The high-quality native SKILL-based PDKs are key to powering up the Virtuoso methodologies to their full potential.”

“We have a long-term partnership with Cadence on the Virtuoso platform,” said Suk Lee, TSMC senior director, Design Infrastructure Marketing Division. “The extension of SKILL-based PDK development to 16 nanometers allows us to better address customers’ needs in custom design of advanced technologies.”

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New LMS 3D Simulation Solutions Offer More Real-World Technology

8 July 2013

LMS, which was recently acquired by Siemens and is now a business segment within Siemens PLM Software, announced the latest release of its LMS 3D solutions for real world simulation, LMS

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Virtual.Lab Rev 12 and SAMCEF Rev 15. Both software releases use innovative technology to simulate real-world behavior for faster, more realistic and easier product design.

“The current releases are another testimony to our commitment to realistic 3D simulation solutions. They are easier-to-use, feature faster performance, and incorporate several innovative solutions for non-linear analysis of acoustics and mechanisms, including composite materials. The software introduces several dedicated solutions for the automotive, aerospace and wind energy industry as well,” stated Nick Tzannetakis, Vice President of LMS 3D Simulation Product Architecture. “As a whole, the LMS 3D simulation solutions are an excellent way to handle the ever-increasing complexity of products today. It is an extremely exciting time for the world of simulation.”

Tailored to industry requirements

Every LMS 3D simulation solution can be tailored to precise industry and application requirements in areas such as acoustics and vibration, mechanisms, automotive and aerospace simulation process integration, structural analysis and wind turbine development. The latest releases of the two core LMS 3D simulation software suites, LMS Virtual.Lab and SAMCEF including CAESAM, address several of the industries’ most pressing engineering challenges.

Speed and accuracy when it truly matters

Built on more than 30 years of proven solver technology, the LMS Virtual.Lab Motion Real-Time Solver uses a parallel solution approach for multi-core solving. Fast and accurate, the LMS Virtual.Lab Motion Real-Time Solver for full-vehicle driving dynamics complemented by the LMS Imagine.Lab AMESim Real-Time Solver or subsystem modeling lets users handle complex real-time 3D-1D models such as those used in hardware-in-the-loop (HiL) applications and realistic driving simulators.

Easy-to-customize driving dynamics templates

LMS Virtual.Lab Rev 12 places a huge emphasis on usability, including more openness and an efficient-to-use and especially easy-to-customize driving dynamics solution in LMS Virtual.Lab Motion for Vehicle Dynamics. Since it is template-based, users can efficiently manage multiple vehicle variants and simulation scenarios error-free with minimal data entry.

New high-speed FEMAO solver for acoustics

Acoustics innovation has always been a focus for LMS. This continues with LMS Virtual.Lab Rev 12. The new frequency-adaptive patent-pending FEMAO solver significantly improves calculation speeds for acoustic simulation for low to high frequency applications like pass-by noise and encapsulation design. A complete vehicle full-frequency pass-by-noise simulation can now be achieved in hours rather than days.

More power for massive models

The latest SAMCEF Rev 15 release contains more technology to solve large-scale finite element models, including massive models with millions of degrees of freedom, and a complete flexible non-

linear analysis solution including massive parallel solving and enhanced post-processing features. SAMCEF Wind Turbines Rev 15 specifically incorporates reference nodes for better comprehensive moving frame analysis for wind turbine applications as well as unique offshore simulation capability that includes wave loading influence on the overall wind turbine performance.

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ZWCAD+ 2014 Beta Launched, with More Intelligent Online Workflow

9 July 2013

[ZWCAD Design](#) today unveiled [ZWCAD+ 2014 Beta](#), the new generation of their cost-effective CAD design software. Previously announced in the [Sneak Peak of ZWCAD+ 2014](#), this new version integrates easy file sync and mobile design features in the built-in online module. It provides more intelligent and connected workflows that allow users to access their design on the go.

Work across Desktop and Mobile Anytime, Anywhere

ZWCAD+ 2014 enhances the collaboration with third-party cloud storage. Online Sync Module is added to help users rapidly open, visualize, edit, and share their ideas anywhere, anytime. In the past, designers had to upload files to the cloud separately, but with Online Synchronization, they can save drawings to authorized cloud storage with one simple click on the user interface. Whenever users upload a drawing onto the cloud, they can quickly access it on the go with [ZWCAD Touch](#), the mobile version of ZWCAD+ for smart phones and tablets. With totally free-of-charge functionalities and fast performance, ZWCAD Touch helps optimize ZWCAD+'s mobile design experience.

Online Update Keeping Your Software Up-to-date

The newly-added Online Update is a convenient function in ZWCAD+ 2014. It can automatically find software updates once available, so designers can always work with the latest version to ensure their design efficiency and quality. The time saved by the new functionality can be used to inspire the designers of new ideas.

When ZWCAD+ 2014 Beta is first opened, users will find a brand new online tag integrated to the Ribbon. What they need to do is to set the auto update configuration, then ZWCAD+ 2014 will download and install the package automatically, or manually. Since everything will be done within the software, there will be less worry for installation failure due to version mismatch or any compatibility issues.

“The introduction of mobile devices into the AEC and MCAD industry is transforming the way that projects are built and managed,” said Daniel Huang, Product Manager of ZWCAD+. “With Online Update and Online Sync in ZWCAD+ 2014, designers can explore more options of the design tool, collaborate effectively and experience great mobility.”

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Special Offer for ZWCAD+ 2014 Beta Launch

Starting July 10th, users who purchase ZWCAD+ 2012 can enjoy a free upgrade to ZWCAD+ 2014. [Click here](#) to find your local reseller and join our free upgrade.

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