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Acquisitions

Intergraph® Announces Agreement to be Acquired by Hexagon AB

7 July 2010

[Intergraph Corp.](#) announced it has signed a definitive agreement to be acquired by Hexagon AB, a leading global measurement technology company, in a transaction valued at approximately \$2.125 billion.

Upon closing of the transaction, Intergraph will operate as a separate Hexagon division under the Intergraph name and branding. Intergraph will become Hexagon's core software platform and will continue to provide differentiated and vertically-focused software solutions to its core industries. Intergraph software will also be integrated into Hexagon's existing measurement and precision technology system markets to provide a visual presentation layer for the management, analysis and sharing of the vast amounts of critical data produced by these products.

"Intergraph remains deeply committed to our customers and markets in which we serve and are pleased to join the Hexagon Group. We believe the significant global resources and technologies of Hexagon will allow us to further invest in our customers, software solutions, people and future," said R. Halsey Wise, Intergraph chairman, president and CEO. "This transaction is a tribute to the more than 4,000 Intergraph employees worldwide whose determination and dedication to our modern growth mission and to our customers have made our business and operational success possible. It also is an acknowledgement of the success of our multi-year "Now" - "Next" - "After-Next" transformation plan and represents an endorsement of the strength of our future growth opportunities."

"The acquisition of Intergraph to become Hexagon's core software platform provides excellent growth prospects and synergies within our portfolio of measurement technologies and is fundamental to our company's growth strategy," said Ola Rollen, CEO and president of Hexagon AB. "We believe Intergraph will significantly expand our addressable market opportunity, creating additional shareholder and customer value through the addition of a well-known and complementary software company."

In 2006, Intergraph was acquired by an investor group led by Hellman & Friedman LLC, TPG Capital and JMI Equity. The investor group stated, "We are pleased to have worked with Intergraph's talented management team and dedicated employees as they have continued the company's transformation mission, delivering strong operational performance and extending the company's market leadership."

Pending regulatory approvals, as well as satisfaction of other customary closing conditions, the transaction is expected to be completed in the third or fourth quarter of 2010.

Goldman Sachs & Co. is acting as financial advisor to Intergraph with Simpson Thacher & Bartlett LLP

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and Bass, Berry & Sims PLC acting as legal advisors. Morgan Stanley is acting as financial advisor to Hexagon with K&L Gates LLP acting as legal advisor.

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Noesis Acquired by Cybernet Systems

1 July 2010

Today, the Tokyo-based Cybernet Systems, distributor of computer-aided engineering (CAE) software, has acquired the Belgian company Noesis Solutions, market leader in CAE process integration and design optimization software. As a former LMS International subsidiary Noesis from now on operates as a wholly owned subsidiary of Cybernet Systems.

The acquisition is a logical step after years of successful cooperation. Cybernet had been operating for a long time to handle Noesis distribution in Asia.

Cybernet will accelerate the expansion of its CAE multiproduct solution service by fully integrating OPTIMUS.

The acquisition will have no impact on Noesis' day-to-day customer service and cooperation with partners.

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CIMdata News

Autodesk's Digital Prototyping for Manufacturing Program; a CIMdata Program Review

7 July 2010

CIMdata, the leading global Product Lifecycle Management (PLM) consulting and research firm released a new PLM Program Review entitled "Autodesk's Digital Prototyping for Manufacturing Program." This review presents CIMdata's perspectives on the use of 3D design, analysis, prototyping, and simulation to support manufacturing engineering in the overall product development lifecycle in general and the specific components of Autodesk's manufacturing program. This paper presents the business case for an accessible manufacturing engineering solution that is integrated with a 3D CAD and simulation environment.

This review provides CIMdata's perspective on Autodesk's digital manufacturing program. According to John MacKrell, CIMdata Vice President, "Autodesk's solution offering in this area is evolving substantially by both expanding existing manufacturing and digital prototyping capabilities and incorporating capabilities from Autodesk's Architecture, Engineering & Construction Solutions group that directly address factory design." This is enabling Autodesk to provide more substantial solutions for manufacturing companies. Currently, Autodesk's capabilities are focused on factory and plant floor layout as opposed to sophisticated factory simulation and other high-end digital manufacturing capabilities. In this paper, CIMdata provides its own reflections as well as describing the experiences of two Autodesk customers whom CIMdata interviewed to gain an understanding of their perceptions of Autodesk's technologies and program.

Mr. MacKrell concludes that: "While there are opportunities to incorporate additional functionality in the future to expand the capabilities of this suite, the vision of expanding on AutoCAD with Navisworks

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and the other tools in the suite is very well conceived.” To read more about this important resource, please download and read the complete “Autodesk’s Digital Prototyping for Manufacturing Program” paper. Copies of the “Autodesk’s Digital Prototyping for Manufacturing Program” CIMdata program review are available [here](#) at no cost.

About CIMdata

CIMdata, a leading independent worldwide firm, provides strategic 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 more than 25 years ago, CIMdata has delivered world-class knowledge, expertise, and best-practice methods on PLM solutions. These solutions incorporate both business processes and a wide-ranging set of PLM enabling technologies.

CIMdata works with both industrial organizations and suppliers of technologies and services seeking competitive advantage in the global economy. In addition to consulting, CIMdata conducts research, provides PLM-focused subscription services, and produces several commercial publications. The company also provides industry education through PLM certificate programs, seminars, and conferences worldwide. CIMdata serves clients around the world from offices in North America, Europe, and Asia Pacific.

To learn more about CIMdata’s services, visit our website at <http://www.CIMdata.com> or contact CIMdata at: 3909 Research Park Drive, Ann Arbor, MI 48108, USA. Tel: +1 (734) 668-9922. Fax: +1 (734) 668-1957; or at Siriusdreef 17-27, 2132 WT Hoofddorp, The Netherlands. Tel: +31 (0)23 568-9385. Fax: +31 (0)23 568-9111.

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CIMdata in the News: “A Prescription for ... Change”

1 July 2010

Due to regulatory and market pressures, health care insurers must increasingly tailor their products to customer needs. One way to streamline this product development process is to deploy product lifecycle management (PLM) to manage their products from inception to retirement. CIMdata President Peter Bilello shares his views on the application of PLM in the insurance industry in this [article](#) from *Insurance Networking News*.

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Company News

ASCENT - Center for Technical Knowledge® Releases Civil 3D Training Guide for Autodesk 2011 Software

7 July 2010

RAND Worldwide® announced that its courseware division, ASCENT – Center for Technical Knowledge®, released the following training guide for Autodesk 2011 software: AutoCAD Civil 3D 2011 Fundamentals.

The AutoCAD Civil 3D 2011 Fundamentals training guide is designed for Civil Engineers and Surveyors who want to take advantage of AutoCAD Civil 3D’s interactive design functionality.

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ASCENT's 2011 training guide now includes more practice exercises, allowing students to take a single project through to completion. This training guide also provides techniques enabling users to organize project data, work with points, create and analyze surfaces, model road corridors, create parcel layouts, perform grading and volume calculation tasks, and lay out pipe networks.

"By adding an extra day's worth of material to this training guide we feel strongly that the key topics users must know to be successful on-the-job with AutoCAD Civil 3D 2011 are covered," said Paul Burden, director of product development, ASCENT. "The enhancements within this training guide for AutoCAD Civil 3D 2011 help our clients bridge the gap between the training class and real-world application of the software."

In addition to the AutoCAD Civil 3D 2011 Fundamentals training guide, ASCENT has released the following training guides for Autodesk 2011 software:

- AutoCAD/AutoCAD LT 2011 Fundamentals
- AutoCAD 2011 Update for AutoCAD 2009/2010 Users*
- AutoCAD LT 2011 Essentials*
- AutoCAD 2011 Advanced*
- AutoCAD 2011 3D Drawing & Modeling*
- Autodesk Inventor 2011 Introduction to Solid Modeling
- Autodesk Inventor 2011 Introduction to Part Modeling
- Autodesk Inventor 2011 Introduction to Assemblies & Drawings
- Autodesk Inventor 2011 Advanced Part Modeling*
- Autodesk Inventor 2011 Advanced Assembly Modeling*
- Autodesk Inventor 2011 Sheet Metal Design*
- Autodesk Revit Architecture 2011 Fundamentals
- Autodesk Revit Architecture 2011 BIM Management*
- Autodesk Revit Architecture 2011 Collaboration Tools*

ASCENT is an Authorized Author, Publisher and Developer of Autodesk curriculum. All of the company's Autodesk courses are available to educational institutions, individuals, and corporations.

ASCENT will continue to release a range of titles for 2011 in the coming months, including the next AutoCAD Civil 3D title: AutoCAD Civil 3D 2011 Survey Fundamentals - Field to Finish. To see the company's complete courseware lineup for Autodesk, Dassault Systèmes, and PTC software solutions, please visit <http://www.ASCENTed.com>.

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Delcam Expands Sales and Support in Canada

6 July 2010

Delcam announced further expansion of its Canadian team in order to better serve its expanding customer base in the country. Aaron Kennette has joined the Technical Support group based in Windsor,

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Ontario, while John Sare is joining the Toronto Sales group covering Central and Northern Ontario.

Aaron has spend the past 12 years running a variety of 3-, 5- and 6-axis machines tools to produce highly-complex moulds for the plastic industry. His real-world experience in programming with Delcam software at one of the top five mouldmakers in North America will make him an excellent addition to the existing support team.

John Sare joins the Sales group covering Central and Northern Ontario after more than 29 years in manufacturing industry. This included the last two years working in business development for Delcam in Europe, after ten years of managing sales channels and machine tool relationships for Gibbs and Associates. John brings a wealth of knowledge of global manufacturing to the team. In particular, his experience of working with leading machine-tool manufacturers will help companies that wish to make more effective use of their machine tools and streamline their processes.

“Since taking over the Greater Toronto area direct, Delcam has increased the Toronto office staff from one salesman to three and added two application engineers. Increasing our sales team in Toronto has been greatly influenced by the sheer volume of companies interested in moving to Delcam’s complete software suite to boost productivity, improve quality and reduce lead times,” said Mark Cadogan VP Delcam Sales North America.

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Delcam Shows PowerMILL 2010 Benefits on Video

8 July 2010

[Delcam](#) has added a new video to the Delcam TV web site highlighting the benefits of the 2010 version of its PowerMILL CAM system for high-speed and five-axis machining. To view the video, go to <http://www.delcam.tv/delcam-video.asp?VideoId=126>. A more general video on the key features of PowerMILL and the reasons why more and more companies are moving to the Delcam software can be seen at <http://www.delcam.tv/delcam-video.asp?VideoId=127>.

PowerMILL 2010 is the first 64-bit version of the software. 64-bit technology removes the memory limitations of 32-bit computers so allowing more efficient toolpath generation, especially for companies machining large or complex parts.

The PowerMILL 2010 release also continues to improve user productivity by extending the use of the latest background-processing and multi-threading technologies available in recent hardware. The combination of these two developments is estimated to reduce calculation times by up to 25%, although this will depend on the size and complexity of the part.

PowerMILL 2010 includes more than 50 other major enhancements to give faster and easier programming, more efficient toolpaths and better surface quality in the finished parts.

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Easier Communication , Better and Faster Access to Information for Clients and Partners with New SIMPOE Website

6 July 2010

SIMPOE SAS , the new standard for plastic injection simulation, announced that its new corporate web

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site is now on line. SIMPOE new website has been designed with two objectives in mind:

-First, to give the community of SIMPOE actual and potential users an easier and faster access to information on SIMPOE solutions.

-Second, to give SIMPOE partners and resellers all over the world a single point of access for the specific information they need to promote SIMPOE solutions.

For Thierry LEROY, SIMPOE's Chief Operating Officer "With the growth of our user's community and international partners network, we needed to implement new tools to support our company development. I am confident this new web site, along with a complete revamping of our CRM system, which will be implemented shortly, will prove very beneficial both for our end users and resellers, by reducing even further our response time to inquiries."

About SIMPOE :

SIMPOE SAS, headquartered in Torcy, France, is a French software developer specializing in plastic injection molding simulation solutions. SIMPOE software is targeted to the mold specialist as well as to the mechanical Engineer who, in a collaborative product development approach, wants to take into account plastic parts manufacturing constraints early in the product design stage.

SIMPOE software is available in several languages through a worldwide network of specialized Value Added Resellers.

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MachineWorks is Developing its Tool Path Generation Strategies Further

8 July 2010

Sheffield-based MachineWorks Ltd, supplier of true solid-based simulation, verification and tool path software solutions, is now developing its tool path generation strategies further and looking to recruit tool path specialists to join its technical team.

Over the last 15 years MachineWorks has been supplying true solid model simulation and verification by embedding its technology in world leading CAM software and CNC machine tool control systems in order to provide integrated simulation, verification and clash detection as core functionality in its customers' applications.

In recent years, MachineWorks has developed its own tool path generation based on proven technology. MachineWorks can now compute tool paths in an environment closely coupled with its simulation and verification libraries. These tool path generators are built with the same attention to geometric detail and accuracy that characterises its verification engines. They provide fast generation of guaranteed gouge-free tool paths, within the specified tolerance. MachineWorks strategies include Area and Rest Roughing, Water Line, Rasters, Radial and Spiral cuts, Constant Stepover, Pencil and Parallel Pencil.

"Everybody thinks of MachineWorks when they think of CNC simulation and collision avoidance systems" says Mike Nicholson, Sales & Marketing Director of MachineWorks, "but more and more people have realised that we are now providing a wider range of functionality including tool path algorithms"

For more information on our vacancies go to <http://www.machineworks.com/company-careers.htm>

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PTC Donates Software Valued At \$180 Million Dollars to 200 Chinese Secondary Vocational Schools

8 July 2010

PTC has announced the expansion of its technological literacy movement in China by the signing of a software donation agreement with the Department of Vocational and Adult Education of the Ministry of Education of the People's Republic of China (MOE). According to the agreement, PTC will offer Pro/ENGINEER® Schools version software to a pilot group of 200 secondary vocational schools under the MOE. The commercial value of this donation is US\$180 million. In addition to the software, PTC is providing its comprehensive education program that includes curriculum, project-based materials, teacher resources, and online learning. These materials center around STEM (science, technology, engineering and math) subjects. PTC and the Ministry are committed to rolling out the program to all the secondary vocational schools throughout China to encourage and support students to excel in STEM subjects.

MOE actively encourages and supports institutions to promote the implementation of the PTC Education Program, using Pro/ENGINEER software for teaching practice. Ge Daokai, Director of the Department of Vocational and Adult Education of MOE said, "We are very pleased to work with enterprises like PTC. PTC actively responds to the call of 'independent innovation', helping China's vocational education and industrial enterprises to train innovative engineering talents. We hope to see more companies joining together to cultivate the next generation of globalized engineers and technicians to enhance the innovation capacity of Chinese enterprises as well as the competitiveness of their products in the globalized economy. "

"In the current global economic crisis, China's manufacturing industry has shown unprecedented vitality and growth, becoming the driving force for the world's economic development. In order to continue this growth a large number of skilled individuals are required. We are very pleased to work closely with the Ministry of Education and provide the initial batch of 200 secondary vocational schools with our rigorous education program," said Greg Sisk, senior director, Asia Pacific & Emerging Geographies Education Programs, PTC, "This will provide more educational and career development opportunities to Chinese students. As a leader in the PLM industry, it is our responsibility to help train future engineers with a solid theoretical foundation as well as relevant practical skills necessary for success in the 21st century. By capitalizing on the depth and breadth of PTC's education program, students will get the best engineering education available. The long term impact of PTC's education program in China is that the skill levels of the entire PLM industry will increase dramatically, which is a win for all."

This MOU signing is a continuation of PTC's long and rich relationship with MOE. Since 1995, PTC has been working with MOE to provide its software and training to academic institutions. In 2007, PTC and MOE formalized their relationship with a commitment from PTC to assist in developing China's engineering education. Over 2000 high schools are already participating in PTC's education program. Starting in 2008, PTC has also developed several strategic relationships with top tier universities, including Tsinghua University, Beijing Institute of Technology and Tongji University, for teaching and research purposes.

About PTC's Global Education Program

PTC's education program provides teachers and professors with complete learning solutions to prepare a new generation for success in a technological world. From secondary school to the university level, PTC offers students the best product development education by providing software, training and teaching materials to educators worldwide. PTC's education program is one part of the technological literacy

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movement that seeks to improve critical thinking and multidimensional problem-solving skills as well as preparing a growing number of students to become engineers.

About the Ministry of Education of the People's Republic of China & the Deptment of Vocational and Adult Education

The Ministry of Education of the People's Republic of China is component departments of the State Council which in charge of education and the language work. Department of Vocational and Adult Education is mainly responsible for vocational education overall planning, comprehensive coordination and macro-management; draw out curriculum list and basic teaching requirements of secondary vocational education; draw out secondary vocational schools setting standards in conjunction with relevant development; guide secondary vocational education reform and teaching materials construction; guide teacher training of secondary vocational schools; take on the macro-guidance work of education and eliminate illiteracy among young adults.

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PTC Honored in the 2010 Microsoft Partner Awards as Microsoft Global ISV Industry Partner of Year

7 July 2010

PTC announced it is a Microsoft Partner Awards winner as Microsoft Global ISV Industry Partner of the Year. The company was chosen out of an international field of top Microsoft partners as delivering market-leading customer solutions built on Microsoft technology.

“Over the past 12 months we have launched numerous products that leverage the Microsoft technology platform, including Windchill ProductPoint, Windchill PPMLink™ and Windchill SocialLink™”

“Microsoft is proud to recognize PTC as the Global ISV, Industry Partner of the Year for their innovative solutions,” said Walid Abu-Hadba, corporate vice president, Developer and Platform Evangelism Group, Microsoft Corp. “PTC has developed global go-to-market campaigns with Microsoft winning market share with its Windchill® ProductPoint® and recently launching several new solutions built on the Microsoft SharePoint 2010 collaboration platform. In addition, PTC has delivered collaborative sales and marketing activities across multiple regions and continues to be a leader in partner engagement.”

“Over the past 12 months we have launched numerous products that leverage the Microsoft technology platform, including Windchill ProductPoint, Windchill PPMLink™ and Windchill SocialLink™,” said Rob Gremley, executive vice president, corporate marketing, PTC. “PTC is the only PLM software provider to receive this award, demonstrating the years of research, development and commitment from PTC to deliver PLM software on the Microsoft SharePoint platform. We look forward to continuing our work with Microsoft as we deliver innovative product development solutions to manufacturing customers.”

[PTC](#) was recognized for superior technology and innovation as the Microsoft Global ISV Industry Partner of the Year. The Microsoft Global ISV Industry Partner of the Year Award honors partners that are enhancing their customer’s business value by deploying new and innovative solutions based on Microsoft technologies.

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CIMdata PLM Industry Summary

Sescoi Launches a New Guide to Integrated Collision Checking & Tool Boosts Productivity

5 July 2010

A new guide from SESCOI details the advantages of integrated collision checking in CAM software. **Free to download from the WorkNC CAM software white papers and guides page**, this new guide itemizes and explains the reasons for using toolpath verification in CAM software and, in particular, the benefits of integrated collision checking.

It explains that with toolpath verification companies can increase their available machining capacity, reduce scrap rates and eliminate prove out runs through programming right first time; increase tool life by reducing shock loading of the tool; and perform complex 3 and 5-axis machining operations with confidence. It then goes on to explain how integrated collision checking in the CAM software enables systems like WorkNC to perform collision avoidance as well.

By working inside the CAM software's algorithms, the collision avoidance routines can suggest alternative cutterpaths or different tool lengths to completely finish a job. Additionally, it can generate the uncollided toolpaths for an existing tool. For 5-axis operations the guide explains the importance of considering the rotational limits of the machine tool and how collision avoidance can introduce extra unwind and flip movements to enable machining to continue uninterrupted. Because the checks run in tandem with the system's algorithms, these corrections can be applied inside the CAM software as program preparation progresses, using live feedback about tool location and interference - a process that is impossible for stand alone verification systems, which rely on cutter location data.

To further optimize the toolpath, the guide looks at how linking and editing cutterpaths, and adding corner smoothing and trochoidal movements can speed up machining and improve quality. It also explains how extra modules such as the **NCspeed** software available with WorkNC, make it possible to examine the tool loading in detail, dynamically increasing or decreasing feedrates to suit the cutting conditions, further reducing cycle times.

The feedback from users of integrated collision checking demonstrates how it gives them confidence to run their machine tools unmanned for long periods, how it has made CNC programming a routine exercise; and how it has produced significant savings in cycle times and in the number of EDM tools required to finish a job. Importantly, being sure that the program is optimized, right, and safe, lets a company concentrate on other aspects of its business, allowing it to introduce even more productivity enhancing initiatives.

[Click here to go to the white papers and guides page to download the guide](#)

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STEP AP242 – The Automotive/Aerospace Application Protocol of the Future

8 July 2010

In cooperation with the international bodies PDES, Inc., JAMA, AIA, ASD-SSG, GALIA, and NIST and representatives of industry such as EADS, BoostAero, Boeing, Lockheed Martin and Rockwell Collins the two application protocols AP 203 and AP 214 are to be combined under the designation STEP AP 242.

The objective is to develop a common application protocol for the automobile and aerospace industry. Bundling the activities allows reacting faster industrial requirements. In addition, AP 242 will open up

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possibilities of integrating technologies like UML (Unified Modeling Language) and XML (Extensible Markup Language) and lowering the costs for standard maintenance. With AP 242 STEP will become the backbone for data exchange, data-sharing, visualization, and long-term archiving.

The AP242 project is jointly coordinated by PDES, Inc. and the ProSTEP iViP Association and supported by the standardization committees ASD-STAN and AIA. The kick-off meeting was held on July 1st, 2010. The technical development should be completed by the end of 2011. The release as ISO Standard is planned for 2012.

About the ProSTEP iViP Association

The ProSTEP iViP Association is an international branch-specific community comprising leading companies in the automotive and aerospace industries, system vendors and research institutes. The aim of the ProSTEP iViP Association is to find solutions for the challenges facing the manufacturing industry as a result of networked collaboration in a worldwide development network.

The ProSTEP iViP Association is headquartered in Darmstadt, Germany, and was founded in October 1993 by 38 industrial companies and a number of system vendors as part of the German STEP initiative. Members of the ProSTEP iViP Association currently include about 200 companies and organizations from 17 nations.

Aerospace Industries Association (AIA)

The US Aerospace Industries Association represents the leading manufacturers and suppliers of civil, military, and business aircraft, helicopters, unmanned aerial vehicles, space systems, aircraft engines, missiles, materiel, and related components, equipment, services, and information technology. AIA establishes industry goals and strategies, achieving consensus among its members and national and global stakeholders and implementing solutions to industry-wide issues related to national and homeland security, civil aviation, and space. AIA develops and publishes NAS standards in cooperation with its member companies.

ASD-Strategic Standardization Group (SSG)

ASD-STAN is the European industrial organization entitled by CEN, the European Standards Committee implemented by the European Commission, as sole provider of European Aerospace Standards. Based upon the principles of openness, transparency and consensus, ASD-STAN develops and publishes prEN standards which subsequently, in cooperation with CEN and its 30 member states community, are transformed into EN standards.

A coherent set of e-business standards is being identified, assessed, developed and implemented in answer to European Aerospace, Space & Defense Industry needs. ASD has responded through the creation of the Strategic Standardization Group (SSG).

PDES, Inc.

PDES, Inc. is an international industry/government/academia consortium committed to accelerating the development and implementation of standards that enable enterprise integration and Product Lifecycle Management interoperability. Its members represent leading manufacturer, U.S. governmental agencies, software vendors, universities, and research organizations. PDES Inc, supports the Digital Enterprise through the development and implementation of information standards to support Model-Based Definition, Model-Based Enterprise, Model –Based Manufacturing, and Model-Based Sustainment. Testing of implementations and data exchange using standards is an integral part of PDES Inc. activities.

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Events News

Engineers Learn How to Accelerate Product Design with Advancements in Simulation

6 July 2010

NEi Software demonstrated advancements in product design analysis during a live webinar held at its global headquarters in Westminster CA. NEi Software's innovation is driven by customers from hundreds of industries who face unique challenges in [optimizing their product design](#).

Understanding how to accelerate FEA analysis and not compromise on accuracy of results requires expertise in code, memory and algorithm efficiencies. This [session covered many advancements in simulation](#) highlighting composite and nonlinear analyses as well as analysis optimization. These advancements enable engineers to meet business objectives which center on the three pillars of product design optimization: mitigating field failure risk, optimizing product cost, and accelerating time-to-market.

Engineers can now cut analysis time in many ways. Allan Hsu, NEi Software Application Engineer, lead this first session demonstrating how innovative features can accelerate engineering product design decisions and analyses. Using the example of an electronics assembly, participants were able to see how quickly an engineer can obtain accurate fatigue damage and life analysis results.

Participants also viewed examples of micromechanics based composite analysis. "Micromechanics based composite analysis in this new release is the biggest game changer in the field. What we are really after is overcoming some of the limitations in accuracy of smeared lamina approaches," said Allan Hsu. NEi Nastran's composite feature allows engineers to not only evaluate individual plies, but also the individual constituents - fibers and epoxy matrices. Hsu also presented specialized nonlinear material models for Nitinol and Concrete for biomedical and civil applications.

Those interested in learning more about [advancements in composites analysis](#) can join the July 20th webinar while those interested in advancements in nonlinear analysis can join NEi Software on September 21st. Optimizing analyses is the subject of the final session which uses the NEi Editor in some of the demonstrations. Those new to the NEi Editor may also wish to read Kenneth Wong's Virtual Desktop's recent posting about the NEi Editor "[Looking Under the Hood of FEA Results with the NEi Editor](#)".

A [replay of the first session in this four part series is now available](#).

About the Presenter

Allan Hsu's background includes performing stress analysis on aerospace structures for commercial and military aerospace programs. As an Application Engineer for NEi Software for the past four years, he provides consulting services, performs presales demonstrations of engineering simulation products, and conducts Finite Element training courses for a variety of industries.

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Technology Leader to Present at Farnborough International Airshow

5 July 2010

CIMdata PLM Industry Summary

PTC will introduce the concept of Quality Lifecycle Management (QLM) by explaining how PLM can enforce more efficient predictive reliability and FRACAS processes. The discussion will focus on how these can5 July 2010

PTC announced that it will present its technology solutions to attendees of the 2010 Farnborough Air Show, being held in Farnborough, England, July 19-25, 2010. Additionally, in conjunction with EADS, Airbus, Accenture and Ineum, PTC will highlight PLM best practices and lessons learned, present key topics such as Quality and Reliability and provide an update on its technology leading solutions. Eighteen of the top twenty A&D companies depend on PTC to provide product lifecycle management solutions designed to meet the requirements of the global aerospace and defense industry. PTC's solutions enable digital automation of product development and program management processes, as well as complete visibility and control over program information for secure, collaborative product development throughout the supply network and the lifecycle of the product.

Spurred by tighter production deadlines, quality assurance and an increasingly complex supply network, product development within the A&D global market continues to evolve. All companies within the segment must streamline their processes, yet collaborate more effectively than ever before with a variety of partners, suppliers and customers across the globe. EADS lends its experience with these challenges by elaborating on Phénix, its strategic program to harmonize its PLM environment. Key goals of the Phénix program are to improve enterprise integration, reduce time-to-market and increase overall product quality.

Wednesday, July 21, 0900 - 1030

Fly by the hour service: Impact on OEM operations and the need for PLM

Theme-based breakfast roundtable, lead by A&D specialists from Airbus and Accenture, provide attendees with an agenda around the assets and knowledge of both PTC and Accenture to drive discussions with attendees beyond the standard core PLM processes.

Wednesday, July 21, 1200 – 1400

Leveraging PLM capabilities to manage Quality and Reliability throughout the product lifecycle

be integrated through an Aerospace program, driving better, less costly support activities with lower risks through the solution operation time.

Thursday, July 22, 2010 - 0900 – 1130

EADS presents the success of its PHENIX program, in place to define and deploy a harmonized PLM solution

Formerly regarded as computer-aided management tools reserved only for Research departments, Product Lifecycle Management (PLM) is now seen as an integral component of business-oriented systems, allowing the simultaneous development of products and services, business resources and logistic support. Attendees are invited to join PTC, Ineum and EADS for this breakfast meeting and hear how, in answer to the need for heterogeneity of PLM solutions in the EADS group, the PHENIX program allowed the definition and the deployment of a harmonized PLM solution.

For more information about PTC at Farnborough International Air Show and to register for these seminars, please visit: <http://www.ptcevents.com/fias10/>. Seating is limited.

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Financial News

Aras Closes Latest Financing Round

7 July 2010

Aras® announced that Series B financing has been closed with the help of DLA Piper LLP (US) attorney Michael K. Barron, lead partner in the Boston practice for early and later stage software, internet, biotechnology, medical device, healthcare, and technology companies and investors in such companies. Aras has raised over \$22 million of investment to date.

“Michael Barron has been instrumental in our success. As our growth rate continues to accelerate, we wanted to offer an opportunity for our existing non-institutional angel investors to participate. Michael Barron helped us structure a win-win deal,” said Peter Schroer, President of Aras. “The individual investors at eCoast Angel Network and Boston Harbor Angels have been critical to our success in building a global business, and we recognize and appreciate their commitment.”

Aras is an emerging leader in the multi-billion dollar Product Lifecycle Management (PLM) software market, and the first provider to deliver an advanced PLM solution suite in an enterprise open source format which eliminates up-front licensing expenses and per user costs. Thousands of companies around the world use the Aras software to automate their product development process including Motorola, XEROX, Textron, GE, Lear Corporation, Lockheed Martin, Rolls-Royce, Sandia National Laboratories and TEVA Pharmaceuticals. For additional information visit <http://www.aras.com>

Michael K. Barron is a trusted legal advisor to entrepreneurs and investors in emerging growth technology companies. Located in DLA Piper’s Boston office, Michael is committed to making an impact on emerging businesses through collaboration, networking and sharing knowledge. He is the co-founder and a member of the Board of Directors of the Massachusetts Innovation & Technology Exchange (MITX, formerly Massachusetts Interactive Media Council), the largest interactive advocacy organization in the world and serves as the General Counsel to MITX.

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Dassault Systemes Schedules Second Quarter 2010 Results Webcast and Conference Call for July 29, 2010

5 July 2010

Dassault Systèmes (DS) will host a webcast and a conference call on Thursday, July 29, 2010, to discuss its operating performance for the second quarter 2010 ended June 30, 2010.

The management of Dassault Systèmes will host the webcast at 10:30 AM Paris Time - 09:30 AM London Time and will then also host the conference call at 2:00 PM London Time - 3:00 PM Paris Time - 9:00 AM New York Time.

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

Follow the directions on the main page to link to the audio.

Please go to the website at least fifteen minutes prior to the webcast or conference call to register, to download and install any necessary software. The webcast and conference call will be archived for 30

days.

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Implementation Investments

Banco Galicia Simplifies Business Processes in Eight Months and On Budget With SAP® Software

7 July 2010

[Banco Galicia](#), the largest private sector bank in Argentina, is using [SAP® for Banking](#) solutions to improve its business processes centered on generating new products and services to bring added value to its customers.

The first phase of the multi-phase project was completed on budget, on time and with results that exceeded the bank's expectations. Banco Galicia believes that by implementing SAP software it has brought about a profound change in several of its processes, thus helping to reinforce service delivery and further boost customer satisfaction.

The objective of the project is to integrate SAP for Banking solutions with Banco Galicia's legacy systems to streamline processes for generating new product and services for its customers. The bank aims to achieve rapid return on investment (ROI) and reduce its IT infrastructure costs with standardized, banking industry-specific SAP software. It also seeks to capitalize on the expertise and developments resulting from SAP engagement with banks in other highly competitive financial markets.

[Watch a video](#) to hear directly from Banco Galicia Chief Operating Officer Miguel Peña about the SAP project: www.sap.com/industries/banking/customers/videos.

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Delcam's PowerMILL Aids Aerospace Weight Savings at Tritech

5 July 2010

Delcam's PowerMILL CAM system made a major contribution to a recent project for the Airbus A400M military transporter at aerospace supplier Tritech. The company was asked to machine from solid the fuel connectors that are located in the wings of the aircraft; a total of 64 variants of these critical components for each wing. With its Delcam software, and a new Huron MX4 twin-pallet, five-axis machining centre, Tritech was able to move from casting to direct machining of the connectors and so achieve significant weight reductions for Airbus.

With over twenty-six years' experience in the investment casting industry, Tritech is a leading supplier of high-integrity investment castings. The company employs 250 people across three sites; two located in Wrexham, North Wales, and one in Barnstaple, Devon. Over the last fourteen years, Tritech has also invested in an outstanding machining facility, to consolidate its position as a single-point supplier to major customers in the aerospace, defence and related industries.

As a principal supplier of machined investment castings, Tritech was approached by Airbus when the switch to fully-machined components was first considered. Airbus had calculated that considerable weight savings could be achieved if all of the in-line fuel connectors could have their wall thickness reduced to 1.0mm from 2.0mm, the minimum wall thickness needed to ensure the mechanical and metallurgical integrity of the cast components. If the components were machined from solid blocks of

CIMdata PLM Industry Summary

aerospace aluminium and the wall thicknesses controlled to a tolerance of 0.015mm, then the integrity of each connector could be maintained with the required 1.0mm wall thickness.

After the Production Engineering management team at Tritech established the key criteria and level of investment required to achieve the manufacturing objectives, Paul Beer, Engineering & Development Manager at Tritech, began the selection process. One of the potential suppliers was Fortron, the UK representative of French machine tool manufacturer, Huron.

An initial cutting trial quickly turned into a much more complex exercise when Tritech were asked to submit three samples to Airbus as 'real parts'. Engineers at Huron worked with the support team at [Delcam](#) France to complete the programming and machining of the trial components. They were submitted to Airbus, on time, to drawing specification and within the allotted cycle time. "Inspection at Airbus described the quality of these machined components as the best that they had seen within such a short development time," commented Mr. Beer.

Essential to the success of the project were special PowerMILL strategies developed for machining engine ports. These included "auto-tilt" functionality that gives efficient material removal while maintaining minimal clearance between the cutting tool and the part surface with no risk of rubbing or gouging. It allowed the demanding surface finish requirements to be met for the through bore on the fuel connector components.

With the process proven, the Tritech Group ordered the Huron machine, plus Delcam's PowerMILL software, and began the move to full-scale production. Because of the demanding time constraints for the project, Delcam engineers undertook the programming of the first initial development components, at the same time as providing on-site training for the staff at Tritech. With their training complete, Tritech now has the in-house capability to develop up to six extremely complex parts in one week.

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High-Tech Manufacturer Beijer Electronics Selects IFS Applications

8 July 2010

[Beijer Electronics](#), a leading provider of high-tech industrial automation and data communication solutions, has chosen IFS Applications to improve and standardize business processes throughout the Group. The contract includes software licenses and services and has a total value of SKr 11.4 million.

IFS will implement IFS Applications for High-Tech Industries at Beijer Electronics. The initial phase of the project has already started, and Beijer Electronics has now decided to implement the system in the entire Group. The solution consists of IFS Applications components for finance, distribution, manufacturing, CRM, document management, project management and e-business.

Beijer Electronics selected IFS Applications after screening the market for agile, user-friendly and scalable business applications to support ambitious growth plans. The system will be implemented step by step to achieve a common platform for shared processes.

"We have high ambitions to grow organically, expand geographically and develop products with a market-driven approach. If we want to achieve this in a controlled and efficient manner, we need a modern, common business platform for the entire group," Fredrik Jönsson, CEO at Beijer Electronics said. "Utilizing best-practice industry competence from IFS, we expect to increase the quality and efficiency of our business processes to achieve our goal of profitable growth."

CIMdata PLM Industry Summary

“Focus on selected industries is vital to our ability to deliver first-class industry solutions to customers worldwide,” Glenn Arnesen, Managing Director, IFS Scandinavia said. “Beijer Electronics’ choice shows our strategy is right and contributes to building our position as a leading global vendor to the high- tech industry.

IFS expects to deliver the project within the second quarter of 2011.

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Open-Silicon Integrates 50 DesignWare Interface and Analog IP Products with 100 Percent Silicon Success

7 July 2010

Synopsys, Inc. announced that Open-Silicon, a leading system-on-chip (SoC) design and semiconductor manufacturing company, has licensed and integrated 50 high-speed DesignWare® IP products into customers' chips with 100 percent first-pass silicon success. The IP products include complete solutions consisting of configurable digital controllers, PHYs which support leading process technologies from 180 to 28 nanometers, verification IP, as well as analog front ends and data converters. In addition to integrating many of Synopsys' silicon-proven interface and analog IP products, Open-Silicon has incorporated building block and infrastructure IP from Synopsys' DesignWare Library into hundreds of designs. By accessing a broad range of pre-verified IP solutions from a trusted vendor, Open-Silicon has been able to consistently reduce integration and verification risk and shorten development cycles for their complex designs in a wide range of applications such as home networking, enterprise network processors, wireless base-stations, storage controllers and test equipment.

"Our customers look to us to execute complex interfaces with first time silicon success, including physical design, package design, and test engineering," said Taher Madraswala, vice president of engineering at Open-Silicon. "Our 100 percent success rate when using DesignWare IP is a reflection of Open-Silicon's IP integration capability, our tight technical relationship with Synopsys' engineers, and the high quality of Synopsys' complete solutions of silicon-proven DesignWare IP."

As one of the initial members of the Synopsys IP OEM Partner Program, Open-Silicon has access to the entire Synopsys portfolio of interface and analog IP solutions. As companies increasingly turn to leading SoC design and semiconductor manufacturing vendors like Open-Silicon to help build their complex SoC designs, Synopsys is proactively partnering with these vendors to provide silicon-proven IP solutions, expert technical support and comprehensive documentation to mitigate project risks. Synopsys and Open-Silicon provide customers with high-quality IP and design services that help them bring their products to market faster and with more differentiated features.

"For more than 15 years, Synopsys has been providing SoC designers with a broad portfolio of high-quality, silicon-proven IP solutions consisting of digital controllers, PHYs and VIP that reduce integration risk and development cost and speed time-to-market for SoC designs," said John Koeter, vice president of marketing for the Solutions Group at Synopsys. "As one of the industry's top fabless ASIC companies, Open-Silicon is focused on customer service, low cost, design schedules and first-time correct silicon. Our OEM partnership with Open-Silicon enables a larger customer base to access pre-qualified DesignWare IP allowing them to reduce development costs and risk."

For information on DesignWare IP, visit: <http://www.synopsys.com/designware>.

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Siemens Becomes Red Bull Racing's Partner for Efficient Technology

8 July 2010

Siemens plc has signed an exclusive multi-year agreement with Red Bull Racing as its green technology partner, working with the Formula 1 team to reduce its facilities' overall carbon footprint, energy and utility usage and ensure waste minimisation and process improvements.

The contract is an extension to an existing agreement with Siemens Product Lifecycle Management (PLM) Software which provides the technology used by Red Bull Racing designers and engineers to virtually model and manage every part of the race car in the effort to shave critical hundredths of a second off lap times.

In light of the fact buildings account for 40% of global energy demand, and about 30% of this could be eliminated through improved industrial technology, lighting, insulation, controlled air conditioning and efficient heating systems, Red Bull Racing is working with Siemens to maximise its operational efficiency and significantly reduce energy usage through the improvement of building equipment, systems and processes at its manufacturing facilities.

Siemens is currently carrying out a series of audits on current manufacturing equipment and processes, building management, heating, lighting and air conditioning systems at the team's head quarters in Milton Keynes and will subsequently provide technology and solutions to implement significant energy and operational savings and improvements across the site. The key to the Siemens approach is the Operational Efficiency Audit which aims to understand the business and identify areas where efficiencies and new technologies will have a direct impact on energy savings and financial performance.

Juergen Maier, head of industry for Siemens plc, said: "We are delighted to extend our work with Red Bull Racing. Using our expertise in energy efficient products and solutions we hope to help Red Bull Racing set the pace in greener manufacturing in the Formula 1 industry. With Siemens PLM software helping the Red Bull Racing car to be as efficient as possible on the track, the new partnership will now also enable greener, efficient operations to be number one off the track!"

Christian Horner, Red Bull Racing Team Principal, added: "Energy Saving is currently an important topic in F1. Teams have demonstrated their commitment to reducing carbon emissions with the recent announcement of FOTA's carbon calculation and reduction programme. Our new agreement with Siemens plc demonstrates our desire to reduce Red Bull Racing's factory emissions and significantly cut our company's carbon footprint - we're pleased to be able to do this with a company such as Siemens."

[Siemens](#) products and solutions helped its customers reduce their CO2 emissions by 210 million tons in 2009. In the coming years, Siemens intends to further increase the contribution of its Environmental Portfolio toward reducing customer emissions - and have set a goal of at least 300 million tons in 2011. In fiscal 2009, the Environmental Portfolio generated revenue of around EUR23 billion. Siemens provides its customers with a wider range of environmentally friendly technologies than any other company in the world.

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The Mazda Motor Company Selects RAMSIS Cockpit Ergonomics Software

1 July 2010

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The Human Solutions GmbH has gained yet another Chinese vehicle manufacturer as a new customer for its 3D CAD manikin RAMSIS. The Hainan Mazda Motor Company is now the 14th Chinese automotive industry company to adopt RAMSIS.

Human Solutions Managing Director, Dr. Andreas Seidl commented, "RAMSIS is the most successful ergonomics tool for vehicle interior design in the world - and our most successful product. We're delighted that Chinese vehicle manufacturers also see ergonomics as a competitive factor, and that RAMSIS contributes towards developing comfort in vehicles for people all over the world.

Ergonomic design is an absolute must in modern vehicle development, if the vehicle is to survive in the market. Vehicles must offer the highest degree of comfort and be designed to optimally match the different physiological attributes of drivers and other vehicle occupants."

Mr. Qizhen Zhang, General Manager, BEIJING JIANGDA TECHNOLOGY: "RAMSIS has a strong position worldwide in the industry. Since the product has been introduced to the Chinese market a few years ago, we have seen constant growth in sales. As Chinese OEMs keep increasing their R&D activities and aim for international markets, more and more local manufacturers need to include RAMSIS early on in their design process. Beijing Jiangda Technology is delighted to manage RAMSIS sales and services for Human Solutions GmbH in China. The partnership between our two companies is very successful. It brings great value to our customers."

RAMSIS has established itself as the standard in vehicle development. More than 70% of all car manufacturers worldwide use the RAMSIS CAD solution (computer-supported, mathematical anthropological system for vehicle occupant simulation) in the design process of vehicle interiors. In ergonomic design, the analysis of an extremely wide range of postures and movement sequences is carried out with the aid of virtual human beings.

Applied is the UK reseller for the RAMSIS solutions portfolio, read more about [RAMSIS](#) or [Contact](#) them for more information.

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Product News

Aeracoustics with Structural Impedance: Automotive Consortium Approves of "Well Conceived and Practical Solution"

8 July 2010

Editor's note: To view the figures cited below please access the unabridged [news release](#).

CD-adapco has demonstrated a first in fluid-structures integrated capability for aeroacoustics simulations with structural impedance effects. CD-adapco is collaborating with the Aeroacoustics Working Group of German automotive manufacturers, which has issued the following statement:

"The consortium of the German automotive manufacturers Audi, BMW, Daimler, Porsche and Volkswagen, that cooperates for improved numerical aeroacoustic tools, considers the results of the structural impedance effects using the coupled Finite Volume flow and stress analysis to be a well conceived and practical solution and encourages CD-adapco to continue validation against the performance data which has been made available in this project."

CD-adapco's flagship software, STAR-CCM+, is unique in its ability to perform fully coupled fluid-

CIMdata PLM Industry Summary

solid interaction. It uses a finite volume solid stress solver implicitly integrated with the finite volume flow solver to analyze the acoustical damping effects of flexible materials. Simulations are compared with measurements on the industry standard SAE-body [1, 2] modified to include a sunroof cavity with different roof materials – including Aluminum, Perspex and Plywood.

Figure 1 - SAE body modified with sunroof opening and passenger cabin

Figure 2 - Acoustic Pressure (Pa) at the Driver's Ear (top), Pressure Spectra (dB) at the Driver's Ear (middle), Roof Panel Deflection (bottom)

Figure 3 - Snap shot of the Velocity Field

By working closely with car manufacturers, CD-adapco provides validated tools to predict and design against wind-induced noise early in the design process, resulting in more refined vehicles that are more comfortable and ultimately safer to drive.

References:

[1] AIAA-2008-2900, "Investigations of Sunroof Buffeting in an Idealised Generic Vehicle Model - Part I: Experimental Results"

[2] AIAA-2008-2901, ""Investigations of Sunroof Buffeting in an Idealised Generic Vehicle Model - Part II: Numerical Simulations"

Visit their [Marine](#), [Aerospace](#) and [Automotive](#) application pages to learn more about the practical use of STAR-CCM+ in industry

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ArchiCAD 14 US Version Released

6 July 2010

GRAPHISOFT® announced that the US version of ArchiCAD® 14 has been released.

The US version is the fifth of 26 local versions in ArchiCAD 14's global release schedule, and follows the release of the International, German, Austrian, and New Zealand versions. All local versions are planned to reach the market by the end of Q3 2010.

For more information about the US version, please visit <http://www.graphisoftus.com/>.

Shipping starts July 6.

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Bentley Systems Makes Strategic Investment to Advance SITEOPS Land Development Optimization Technology

7 July 2010

Bentley Systems, Incorporated announced that it has acquired a minority interest in Charlotte, N.C.-based BLUERIDGE Analytics, Inc., provider of SITEOPS - site design optimization technology that utilizes cloud computing to save substantial time and cost while improving land development outcomes. SITEOPS, a patented web-based application, empowers civil engineering professionals, real estate

CIMdata PLM Industry Summary

developers, and land planners to perform site configuration simulations, produce preliminary cost estimates, optimize site designs, and reduce overall costs. The conceptual designs are compatible with DGN, DWG, LandXML, and other file formats, so they can be easily exported into software such as Bentley's MicroStation, Power InRoads, and Power GEOPAK for final design work. Among owner-operators and retailers benefiting from SITEOPS' many capabilities are Lowe's Companies, Inc. and Target.

Joseph Viscuso, vice president, Stantec, a leading provider of professional consulting services for infrastructure and facilities projects, said, "We were introduced to SITEOPS by some of our commercial clients, including Lowe's Companies, and a number of them now mandate its use on their projects. SITEOPS provides a much more reliable starting point for site design - one that allows you to consider grading options in the early stages of a project rather than six months or even a year or two out, which is the norm with traditional approaches. It also gives you early cost estimating data, along with the ability to look at five, ten, even twenty design alternatives. This means you can work with a client in making some really good siting and grading choices up front that can both shorten development time and reduce development costs."

Viscuso added, "So we are happy to see Bentley make this investment and look forward to working with them in moving site design in a completely new direction. Moreover, as a longtime user of Bentley's solutions and products, we look forward to leveraging interactive workflows among SITEOPS and our Bentley civil engineering tools."

Mike Detwiler, president and CEO, BLUERIDGE Analytics, said, "We are extremely pleased to have Bentley Systems, a recognized global leader in software for sustaining infrastructure, as our largest shareholder. Bentley's decision to make a significant investment in our company and help support our ongoing development work validates the tremendous potential of our cloud-based land development technology."

"This is an intriguing investment for us," Greg Bentley, CEO, Bentley Systems, said. "As we advance information modeling for intelligent infrastructure, by way of integrated projects, what I call 'simulation towards optimization' is increasingly key. SITEOPS shows that a well-structured challenge such as site development can truly be made a science. Though SITEOPS is still in the early adoption stage, the resourceful team at BLUERIDGE Analytics has more than proven its potential in just a few short years. Already, evolutionary computing applied to land development now sets the new standard for preliminary site design performance. Equally important, the company's management team has demonstrated a viable cloud computing business model that many of us can learn from and perhaps help extend."

SITEOPS addresses the challenges associated with conventional land development processes by systematically considering millions of layout, grading, and drainage options for a site within hours instead of months. Engineers are thus empowered to produce conceptual designs faster and present more options to land developers. Through its powerful evolutionary computing techniques, SITEOPS can save a significant proportion of site development costs.

Products include SITEOPS Multi Pad for conceptual site design and SITEOPS Design for rapid site selection assessments and conceptual layouts. For additional information, visit www.siteops.com.

To facilitate information sharing among SITEOPS and Bentley users, Bentley will add a SITEOPS user community to its Be Communities professional networking site at <http://communities.bentley.com/>.

For additional information about BLUERIDGE Analytics and SITEOPS, visit <http://www.siteops.com>

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Blue Ridge Numerics Announces the Release of CFdesign 2010 Summer Update with Full Support for CoCreate 17.0

8 July 2010

Blue Ridge Numerics, Inc. announced the CFdesign 2010 Summer Update is available for immediate download through the CFdesign customer portal. This latest update is part of the quarterly product update release schedule and includes many product enhancements including full support for [CoCreate 17.0](#), a massed particle collision report and enhanced smoke visibility.

Using CFdesign engineers are able to make insightful design decisions based on fluid flow and heat transfer simulations while continuing to work in their CAD environment. The simulations begin from within the CAD package using the design study manager, and the native model along with its associative information is opened within the CFdesign design study environment. The unique multi-scenario design study environment in CFdesign 2010 allows engineers to view multiple designs at one time and visually compare the different results. CFdesign enables engineers to obtain accurate simulation results early in the development process where the value of true upfront computational fluid dynamic (CFD) software is greatest.

"This is the third and final scheduled quarterly product update for CFdesign 2010, which continues to provide design engineers the most comprehensive upfront CFD software package available," says Derrek Cooper, CFdesign Product Manager, "As with each update, this Summer Update provides users with integration updates and enhancements requested by customers ."

CFdesign is released annually each fall followed by three scheduled quarterly updates. This consistent development process assures that CFdesign remains compatible and can take advantage of the latest release of each CAD tool, Microsoft Windows, and new hardware advancements.

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Camilion Solutions Announces Authority Suite Version 5.0 for P&C Mid-Market Insurers

7 July 2010

Camilion Solutions™, a leading provider of product development solutions for insurance, investments and banking and modern P&C [policy administration systems](#) that create [enterprise product agility](#), announced Authority Suite® Version 5.0. With a first customer already signed, this release provides features designed specifically to address the needs of mid-market insurers, including:

- A new highly intuitive user interface
- A new strategic relationship with ISO to accelerate the development and maintenance of ISO products through the efficient use of [ISO Electronic Rating Content](#)
- Full support for ISO Personal and Commercial Lines products including up-to-date Base Products (ISO loss costs, rates, rules and form logic), with interpreted content that can be quickly and easily extended with proprietary product features
- The newly-created Camilion Product Factory™, which uses advanced import technology to automatically transform ISO Electronic Rating Content into re-usable and

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extendable Base Products for initial customer implementation and ongoing maintenance updates

- Support for Microsoft SQL Server
- Industry-standard frameworks that enable simplified integration and extensibility
- The ability to more easily upgrade Authority Suite's out-of-the-box functionality
- The selection of Discoverture Solutions, a leader in providing technology solutions to mid-market insurers, as Camilion's preferred implementation partner

Authority Suite, powered by ProductAuthority®, is the most product-agile, rules and tools-based P&C policy administration system that supports ISO and other lines of business. The “no code” solution has sophisticated product configuration capabilities at the core that enables the fast and easy inheritance and re-use of existing pre-built product components such as company rates, rules, forms and calculations from an enterprise repository to accelerate product development. Enabling further product agility, Authority Suite provides configurable workflows that facilitate collaboration, track and manage product development including insurer-specific deviations from ISO programs. Automated workflows dramatically reduce time and effort required to get new or changed products to market, balance workloads and streamline processes with the ability to track and manage all participants, tasks and approvals.

“We are proud that Authority Suite 5.0 has already been chosen by our first mid-market customer,” said Susan Hutt, Camilion's Senior Vice President, R&D and Services. “Authority Suite 5.0 demonstrates Camilion's ongoing commitment to the mid-market and to improving our clients' user experience. We've worked with our customers and usability experts to develop user-centric processes and task-flows that make it faster and easier for insurers to write new business and renew existing policies. We've simplified the upgrade path for the solution's out-of-the-box functionality and increased its extensibility. We now also provide complete support for ISO products that go well beyond simple Quick Start templates and can be imported directly into Authority Suite.”

“Camilion was the first policy administration vendor to adopt the program because they realized their modern architecture, best practice product modeling, and advanced product inheritance and re-use capabilities will allow their customers to easily integrate ISO Electronic Rating Content and tailor it for company-specific products,” said Kevin Thompson, Senior Vice President, Insurance Services, ISO. “Time to market is accelerated and data quality is improved because analysis and implementation of the thousands of ISO circulars created per year does not have to be done manually.”

“Discoverture is pleased to be a preferred implementation partner for Camilion Solutions,” said Bick Whitener, Vice President, Marketing, Discoverture Solutions. “We feel the combination of the Camilion product offering with the Discoverture implementation capabilities offers the P&C mid-market an excellent value.”

Key Features of Authority Suite 5.0:

Improved User Experience – The redesigned Authority Suite user interface (UI) features a new Quick Access Panel that accelerates policy processing and makes it easy for customer service representatives, underwriters and business users to locate policy information and drill down into customer detail. The new UI allows insurers to rapidly respond to customer and producer inquiries, reduce call times and improve customer service.

Full Support for ISO Rating Products – Camilion, the industry's first ISO Electronic Rating Content

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Associate, now offers an innovative solution that allows insurers to more easily develop ISO-Based Products using content interpreted right at the source. While other solutions offer only quick start templates, Camilion's newly created Camilion Product Factory uses ISO Base Products as components that can be integrated into Authority Suite. This provides the complete ISO product structure an insurer needs to create a tailored product offering. The integration of ISO content with Authority Suite dramatically reduces implementation times and costs, while accelerating time to market.

Simplified ISO Product Updates – Camilion provides a flexible solution for managing ISO product updates and simplifying maintenance. Clients can choose to update their ISO-Based Products on their own using ProductAuthority's product configuration capabilities, or the Camilion Product Factory can make the product changes for them.

Industry Standard Frameworks – Authority Suite 5.0 is built on open, industry-standard frameworks, which deliver the easy extensibility, scalability and upgradeability that mid-market insurers need to protect their investment longer and avoid the high costs of specialized IT skills. To simplify integration with other core systems, whether legacy or best-of-breed, Authority Suite also includes a standard Integration Framework to enable the rapid development of interfaces for other solutions such as claims, billing, print and third-party information providers.

About ISO

Since 1971, ISO has been a leading source of information about property/casualty insurance risk. For a broad spectrum of commercial and personal lines of insurance, the company provides statistical, actuarial, underwriting, and claims information; policy language; information about specific locations; fraud-identification tools; and technical services. ISO serves insurers, reinsurers, agents and brokers, insurance regulators, risk managers, and other participants in the property/casualty insurance marketplace. ISO is a subsidiary of Verisk Analytics. For more information, visit <http://www.iso.com> and <http://www.verisk.com>.



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COMSOL Introduces the Plasma Module

2 July 2010

COMSOL, Inc. announced the release of the Plasma Module. Based on COMSOL Multiphysics, the Plasma Module brings tools for the study of low temperature plasmas. The module is designed for researchers, engineers and experimentalists in the field of plasma science to model non-equilibrium discharges which occur in a wide range of engineering disciplines. Target application areas utilizing plasmas include light sources, semiconductor processes, surface coating, and medical sterilization. The module is accompanied by a suite of tutorial and industrially relevant models which serve as both instructional examples and a foundation for future work.

“Simulation of plasmas is a daunting task that is now being addressed for the first time ever using true multiphysics technology,” comments Dan Smith, Lead Developer of the Plasma Module with COMSOL, Inc. “We leverage this technology in the Plasma Module to solve the complex interaction between the electromagnetic fields and charged particles which collectively constitutes plasma. Users will be able to turn to simulation for a wide range of plasma applications that will reduce the need for costly experiments and increase productivity. ”

Specialized Plasma Modeling Interfaces

CIMdata PLM Industry Summary

Low temperature plasmas represent the amalgamation of fluid mechanics, reaction engineering, physical kinetics, heat transfer, mass transfer and electromagnetics. The net result is a true multiphysics problem involving advanced couplings between the different physics. The Plasma Module features application-specific physics interfaces that automatically implements the complicated coupling between each of the components which make up plasma.

There are specialized modeling interfaces for the most common types of plasma reactors including inductively coupled plasmas (ICP), DC discharges, wave heated discharges (microwave plasmas) and capacitively coupled plasmas (CCP). In the spirit of existing COMSOL products, each of the interfaces can be customized, modified and extended in arbitrary ways by the user.

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FARO and Autodesk Collaborate to Add Support for Point Cloud Data to AutoCAD 2011

6 July 2010

[Autodesk, Inc.](#) and FARO, a leading global provider of portable measurement and imaging solutions, announced their collaboration to add direct integration of point cloud data to [AutoCAD 2011](#) software. FARO and Autodesk have also entered into an agreement for FARO to promote

In addition, Autodesk announced the FARO Laser Scanner Photon as its preferred hardware for point cloud data capture of process plant facilities using AutoCAD Plant 3D.

Through joint engineering and development efforts, AutoCAD 2011 allows the direct import of binary scan data from FARO Scene, FARO's scan processing software for the FARO Laser Scanner. The introduction of a dedicated point cloud platform that integrates into AutoCAD will allow customers to do more than ever before. AutoCAD 2011 supports up to 2 billion points, which can be used with the enhanced tools for 3D modeling to enable extremely high performance usage of the scan data.

“As the use of laser scanners has become more widespread by our customers, they've asked for direct import and support for large point clouds in AutoCAD,” said Gonzalo Martinez, director of strategic research, Autodesk. “For the past year we have been working closely with FARO, who assisted with the design of the feature and provided us with crucial feedback for the direct integration of point cloud data. We are thrilled to bring this functionality to our customers.”

For Autodesk users, the ability to import binary scan data directly into AutoCAD 2011 is allowing more powerful 3D modeling. For FARO Laser Scanner users, data collected now goes directly into AutoCAD 2011, eliminating the need for a neutral space-consuming file format.

For customers in the process and power industries, the addition of point cloud support in AutoCAD 2011 will significantly speed the process of converting as-built information into 3D models. Built on AutoCAD software, AutoCAD Plant 3D brings the benefits of model-based design to mainstream plant design projects, and has been purpose-built specifically for the design, modeling and documentation of process plants.

“Autodesk and [FARO](#) share a vision of making technology more accessible, so we are proud of our successful cooperation to develop a functionality that really supports our joint customers in their day-by-day design activities and will help them achieve remarkable time savings,” said Jay Freeland, CEO and president of FARO Technologies. “We are also pleased to expand our relationship with Autodesk with

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the selection of AutoCAD Plant 3D as our preferred modeling application for the process plant industry, and are confident our customers will benefit from its ease of use and worldwide availability.”

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Lattice Technology Releases XVL Studio Ver. 9.1

8 July 2010

Lattice Technology® Inc. released XVL Studio Ver. 9.1, an update to the core authoring software for creating 3D manufacturing, service and maintenance data for use downstream.

XVL Studio is available in 3 editions – Basic, Standard and Pro – delivering enhanced levels of tools, options and functionality for processing 3D data into manufacturing data for illustration, process design, and validation. XVL Studio 9.1 has been released with an impressive range of new and improved features for process design, digital mockup, checking and visualization of 3D data, and preparation of 3D for immediate and productive use in downstream operations of many parts of manufacturing. Noteworthy improvements are evident in the improved tools for Ultra Large Data Handling (ULDH) that make it even easier for manufacturers to check, visualize and verify the accuracy of very large assemblies, create and test processes and to document those processes for downstream users.

In addition, streamlined, real-time measurement of parts in cross-section mode, and animation of individual tools and equipment, deliver more realistic visualization. New functions now make it easier and quicker to create concise illustrations and images with custom-defined annotations direct from 3D views.

New and improved features of XVL Studio 9.1 include:

Optimization of process animations: Process animations created in XVL Studio can now be optimized into even smaller file sizes, with faster save and opening times. This is a critical function for manufacturers with ultra-large data assemblies who need to fully optimize file sizes, and time spent opening files.

Support for Windows 7: XVL Studio will now operate on Windows 7 platforms.

Draft Angle Check: Quickly check and visualize draft angles in a 3D model, highlighting faces with insufficient draft angles.

Animated tools and equipment: Tools and equipment that have been added into a process can now be animated to check for interferences and to visualize how humans will use the tools during assembly.

Merging of different processes: Different processes applied to the same 3D data can be created independently and then merged into a ‘master’ process model for testing, line balancing etc. A new, more responsive man-hour graph also improves visual checking of authored process times against a standard time.

Parts list based on disassembly tree: Parts lists can now be viewed and easily edited based on the disassembly tree data, for fast creation of accurate sBOMs.

Enhanced measurement: New, streamlined methods for measurement of the 3D data allow for faster, integrated measurement across a model and real-time measurement on a cross-section.

Advanced illustration settings: Additional user controls on notes and dimensions for illustrations allow greater flexibility and options for note styles, colors, and how hidden trace lines appear in the

illustration. In addition, 2D illustrations based on the 3D view can now be created.

Other enhancements include the ability to customize color maps, easier import and export of .CSV data, more streamlined editing of properties, and improved icons for cross-sectioning tools that all deliver easier and faster use of XVL Studio for users.

View [a full list of new and updated features for XVL Studio 9.1.](#)

XVL Studio 9.1 is available at no charge to maintenance customers and can also be tried out for free with the Lattice Technology Product Trial, after a short registration.

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LEDAS Adds Advanced Parametric Drawing Functions to Version 4.0 of its 2D Constraint Solver

5 July 2010

LEDAS Ltd. announced version 4.0 of LGS 2D, its geometric constraint solver. As a core component of parametric drawing applications, LGS 2D allows users to express design intent through geometric and dimensional constraints applied to elements of sketches and drawings.

New Features in LGS 2D 4.0

Version 4.0 of LGS 2D introduces the following new functions: linear pattern constraints, directed distance constraints, and alignment/orientation attributes for most constraints.

Linear pattern constraints set relations between several sub-geometries of equal shapes (e.g. rectangles), aligning and uniformly distributing them along a given direction. Any changes in position or orientation of any one of the pattern constraint's arguments leads to corresponding changes in other arguments. As with other LGS 2D constraints, a linear pattern constraint is variational, which means it can be combined with other constraints that are imposed on pattern's sub-geometries. All constraints are solve simultaneously.

Directed distance is a new constraint that generalizes horizontal and vertical distance constraints introduced in previous versions of LGS 2D. It is a ternary (three-element) constraint imposed on any pair of objects (points, circles, or curves) and a line that represents the direction of distance measurement. It can be used to prevent segments from flipping their end points; using a signed, directed distance constraint (instead of the ordinary distance) fixes the desired relative locations of the end points.

Alignment attributes specify whether the tangent vectors of the constraint arguments are co-directed (collinear vectors with positive scalar product) or counter-directed (collinear vectors with negative scalar product). The attribute can be applied to any constraint involving two non-point entities: tangency, distance, parallelism, or perpendicularity between lines, circles, curves or ellipses.

Orientation attributes control whether an argument is positioned to the left or right side of other ones. They are applied to all distance constraints, except point-point distances. Orientation and alignment attributes fully control the chirality (left or right handedness) of constraints.

For developers, LEDAS provides special integration facilities that simplify the job of embedding LGS 2D into their applications. In particular, all members of Open Design Alliance can use the LGS 2D integration module

(developed jointly by LEDAS and the ODA) to quickly implement constraint

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drawing functions that are fully compatible with the DWG file format. The ODA is a non-profit organization that develops the Teigha™ (formerly DWGdirect) software development platform for CAD and other technical graphics applications.

“The new functions in version 4 were ones requested by our customers,” said Dmitry Ushakov, Director of Product Management at LEDAS. “Our customers’ satisfaction with our products is the greatest recognition we can receive. We appreciate their feedback on our components so that we can continue to improve them.”

About LGS Software

Since their first commercial release in 2004, the LGS 2D/3D software components have been licensed by a dozen CAD/CAM/CAE vendors, who have embedded them into their applications successfully.

The LGS 2D and 3D geometric constraint solvers are used as parametric engines for 2D sketching and drawing, history-free 3D modeling, assembly design, motion analysis, and other applications. LGS 2D/3D are cross-platform software packages running on 32- and 64-bit versions of Windows, Linux, Mac OS X, *BSD, AIX, HP-UX, and other operating systems. LGS 2D/3D have a C-style API for easy integration into a broad range of software applications using a variety of wrappers, such as .NET, Java, and C++.

LGS 2D/3D supports the creation and modification of geometric models by means of explicit and implicit constraints. Geometric objects that can be constrained include points, lines, circles, ellipses, planes, cylinders, spheres, NURBS, and application-defined parametric curves, and surfaces. Objects can be fixed in the absolute coordinate system or relative to each other. Supported constraints include geometric relations between objects (coincidence, parallelism, tangency, and so on) and dimensions that specify the required values for distances, angles, and radii. LGS 2D/3D moves and rotates objects to positions that satisfy all constraints, yet minimizes transformations from initial configurations.

Other LGS functions implement advanced features of CAD/CAM/CAE systems, such as diagnostics of over- and under-defined parts of models, engineering variables and equations, help points, and tolerance management.

Example applications called “Lege’n’d 2D/3D” are available as free downloads from the LEDAS web site. Provided with a collection of sample models representing different kinds of 2D sketches and 3D assemblies, the applications can be used to test the functionality, robustness, and performance of LGS 2D/3D. The sample applications were created with the Open CASCADE open-source application framework; the source code is available to all licensees.

To learn more about LGS 2D/3D, visit the LEDAS Web site at <http://www.ledas.com/products/lgs2d>

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New Dassault Systèmes 3D Collaborative Engineering Solution Enables Lean Product Development

8 July 2010

Dassault Systèmes (DS) announced that it has launched a Collaborative Multi-Discipline Engineering (CMDE) initiative. Designed as a practical tool for manufacturers to implement multi-discipline collaboration and lean product development processes, the CMDE solution delivers functionality from multiple DS brands, is capable of handling large, complex assemblies, and is based upon a single PLM platform. This approach enables engineers and designers of all specialties to collaborate in real time on a

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large scale to decrease product defects and streamline the entire product development process.

By focusing on driving collaboration through product and process engineering, the CDME solution supports all product information (from CAD and manufacturing information to complex mechatronics simulation data) enabling all engineers to participate in projects even if they are not using the system that generated the data.

While value stream management – a method of production optimization encompassing design, manufacturing, services and more – has long been a goal for manufacturers of industrial equipment, Dassault Systèmes is the first software provider to create a solution that uses 3D to bring together all engineering disciplines that work on this complex equipment. The Dassault Systèmes V6 collaborative platform enables manufacturers to go beyond the confines of traditional PLM by incorporating 3D technology to create a lifelike experience. The combination of standardized business processes and a lifelike experience provides tremendous flexibility, scalability and industry-specific functionality which are of particular benefit to machine makers, who need to bring together multi-discipline engineering groups and other product development contributors.

Project size is also not an issue. The CMDE solution’s design tools help designers to collaborate in real time on large scale mechanical design – tubing, welding, structural, including electrical and software components, kinematics and control systems. In addition to supporting the efficient management of functional, logical and physical product information, the resulting 3D designs can be represented as a multifunctional engineering bill of material. The solution has also been developed to meet security requirements of sharing intellectual property (IP) across departments of the extended enterprise, including suppliers and customers, with the granular levels of IP protection. V6’s CMDE solution takes maximum advantage of lifelike 3D cross-departmental collaboration, enabling business transformation into a lean and efficient manufacturing environment.

According to PLM analyst firm [CIMdata](#), “The bottom line is that users can stay on task and do not have to interrupt their normal workflow, drastically improving productivity. V6 PLM is the backbone for all product, process, resource, and simulation data management enabling global multi-disciplines collaboration.”

“To succeed in this market, companies have to anticipate and meet different customer needs while addressing any negative impacts on their value stream. They need to efficiently manage existing product variants and changes during lifecycles, reduce costs, shorten the time from quote to delivery, maintain visibility into suppliers’ operations and deliver efficient after-sales service,” said David Segal, global leader of Industrial Equipment Market Development for Dassault Systèmes. “Industrial equipment manufacturers simply don’t have the time and resources to spend on achieving this level of performance element-by-element. Every minute and every dollar counts when competitive advantage is at stake.”

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New EMC Documentum Media WorkSpace Provides Advanced Capabilities for Brand Management

7 July 2010

EMC Corporation announced the latest version of the EMC® Documentum® Media WorkSpace, a digital asset management product that provides a dynamic, rich Internet application experience for marketing professionals. As the primary user interface for the EMC Documentum Brand Management Solution, Media WorkSpace provides an interactive experience for accessing marketing repositories to enable greater control and visibility over digital media.

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Media WorkSpace is a configurable, Web-based interface that is built using Adobe Flex. It provides a rich set of capabilities for managing digital media from any Windows or Macintosh browser without the need for desktop installation. Media WorkSpace delivers the following new capabilities:

- Advanced image, video, audio and presentation management features including different views and players, annotations, storyboards, sub-clips, renditions and version management.
- Collaborative social media features including relevancy and importance of an asset, how they are used or related to other assets, capturing comments and blogs
- A personal dashboard to enable easy access to recently viewed and added assets, most popular assets and the inbox.

"The new EMC Documentum Media WorkSpace makes it easy for our business users to interact, search, review and manage thousands of rich media assets," said Lisa McIntyre, Digital Asset Management Librarian at GSD&M Idea City. "Having an easy-to-use application that is graphically pleasing to all types of users is a huge benefit when it comes to adoption and productivity. When users like how items are presented and the key capabilities are at their finger tips, we have found that they are more willing to utilize technologies that promote productivity, better asset utilization and brand controls. The adoption of Media WorkSpace will lead to better collaboration and more efficient ways of working, thus saving us time and money in the long run."

"The need to manage digital assets and brand experiences continues to be an important requirement for marketing organizations," said Brian Babineau, Senior Consulting Analyst, Enterprise Strategy Group. "To help realize their goals for revenue attainment and reduction of marketing costs, it's critical that their digital asset management solution is easy to use and helps them collaborate, reuse and protect their marketing assets. The new Media WorkSpace is a great example of how interactive interfaces are driving the adoption of powerful digital asset management solutions."

The [EMC](#) Documentum Brand Management Solution helps companies improve time-to-market for new products, enables brand consistency and maximizes the value of digital asset investments. As part of EMC's portfolio of marketing solutions, it enables chief marketing officers to better enhance marketing efficiencies and deliver greater brand impact.

"Marketing organizations are under pressure to show greater return on investment while tasked with delivering interactive customer experiences," said Whitney Tidmarsh, Chief Marketing Officer, Information Intelligence Group, a division of EMC. "The new EMC Documentum Media WorkSpace is truly a breakthrough interface designed to meet today's needs for media-rich and highly interactive marketing. Like our customers, EMC's implementation of Media WorkSpace is helping us achieve marketing productivity through access, management and sharing of digital media as well as streamline marketing operations especially around collateral production."

"The new Documentum Media WorkSpace provides highly interactive capabilities that our customers look for when managing digital assets," said Yogesh Gupta, President and CEO of FatWire. "Through our partnership with EMC, we are able to offer their leading digital asset management solution integrated with the FatWire Web Experience Management suite to enable our customers to drive interactive marketing success."

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Open Inventor® 8.1 is Available

5 July 2010

VSG announced that Open Inventor 8.1 C++ and .NET for Windows 32-/64-bit and for Linux RHEL 32-/64-bit are now available.

Delivering many new features and enhancements, Open Inventor 8.1 is an essential release which brings even greater performance, more high-quality graphics, more interactivity and more robustness to your applications.

• Ultimate graphics performance

Thanks to numerous optimizations, generalized use of VBOs and finely tuned memory consumption, Open Inventor 8.1 delivers a display rate which is now nearly equivalent to graphics hardware peak performance.

Dynamic display resolution

Open Inventor and VolumeViz 8.1 now provide progressive display quality: The advanced rendering effects are progressively applied during interaction, refining image quality on the fly, without sacrificing interactivity. [Watch the video.](#)

VolumeViz: Volume Mask

VolumeViz 8.1 now provides a Volume Mask, which allows for the definition of generalized regions where data is filtered. This is extremely useful for applications dealing with advanced segmentation, filtering and volume clipping, such as geobody extraction or virtual core plug, or medical image segmentation for example.

VolumeViz: Real-time shadows

VolumeViz 8.1 delivers a new dimension to your 3D visualization capabilities : the real-time shadow support with Volume Rendering. [Watch the video](#)

MeshViz (XLM) enhanced

MeshViz XLM, Open Inventor extension for advanced mesh visualization and processing, benefits from significant enhancements in version 8.1, such as more parallelized extraction algorithms, improved performance, more quadratic mesh support and a brand new indexless mesh support.

ScaleViz 8.1: Seeking New Heights

ScaleViz 8.1 supports multi-pipe depth compositing, delivering ultimate performance and scalability for multi-GPU configurations. Very large scenes and geometries, up to hundreds of millions of cells can now be manipulated interactively on multi-GPU systems. Optimized performance on NVIDIA QuadroPlex® systems, using the NVIDIA CompleX™ engine.

and much more

Many optimizations for multi-core systems

Computation framework extended to OpenCL

Support of Geo-referenced objects, using X3D GeoSpatial (GeoVRML 1.1) nodes

New text rendering attributes

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New OpenGL context and cache management

Support for compressed IV files

Read a more detailed presentation of What's New in Open Inventor 8.1: [Open Inventor 8.1 What's New \(PDF\)](#)

Read the full Release Notes of Open Inventor 8.1 at: [Open Inventor Release Notes Page](#)

All information about Open Inventor at: www.open-inventor.com

All Open Inventor users who benefit from our Maintenance Service will have an electronic copy of their update to Open Inventor 8.1 by VSG delivered directly to them.

Finally, we encourage you to visit and register on the Open Inventor Forum at www.openinventor.net. This forum is designed for you to have the opportunity to share your experiences with other users, as well as to discuss any issues or concerns with Open Inventor experts from Visualization Sciences Group.

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Optimized Offline Programming Reduces Manufacturing Processes by up to 70 Percent

6 July 2010

New manufacturing technologies become more and more accepted if they deal with existing issues more efficiently and, above all, better. Often, sophisticated offline programming (OLP) proves to be the catalyst for this. Once a new process is mastered by these OLP technologies, its acceptance suddenly increases. The modular programming solution CENIT FASTSUITE can be extended by new point-based, path-based, or surface-based 3D processes for robots and machines. This is equally valid for complex 6-axes machine kinematics, single robotic cells, up to very complex cells with several synchronized robots for painting, external tilt-and-swivel tables, or conveyor tracking.

The system – based on CATIA V5 – allows for a comfortable, geometry-oriented, and associative approach in offline programming. In addition to traditional technologies such as 3D laser cutting, new technologies such as glueing, cutting, seam sealing, roller hemming, laser-beam hardening, and laser cladding have emerged especially in the automotive field. Based on the close cooperation of the technology supplier, the customer of such applications and CENIT's PLM specialists, OLP solutions are developed which lead to time-saving of up to 70 percent during programming tasks for, for example, roller hemming.

By means of the integration into CATIA V5, new optimization potentials are available to the user. Components can be specifically analyzed on the basis of manufacturing features such as spot weldings, with the results being reused in offline programming for almost entirely automatic programming. Variants of seam-sealing jets which have to be cut and welded by means of a laser beam can be transferred to functioning new programming tasks – within just a few minutes. Another potential provided by CATIA V5: the generated cutting paths, which can now also be programmed for robots by means of the CENIT FASTSUITE software kit in order to, for example, mill low-cost styrofoam models.

Version 3 Release 12 of the CENIT FASTSUITE modules FASTTRIM (3D machine-based contour processing), FASTTIP (3D point-to-point processing), FASTSURF (3D surface processing), and FASTCURVE (3D robot-based contour processing) – available now – offers further enhancements. These include, among other features, multi-edit for technical events, templates for path programming,

upload into FAST activities, and much more.

Further information: <http://www.cenit.de/fastsuite>

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PLM Teams Up With the Cloud

24 June 2010

In today's difficult business environment, companies are learning to focus more and more on the three "P's": individual productivity, application productivity and IT productivity. In order to make this easier than ever, Siemens IT Solutions and Services is now offering its worldwide PLM (Product Lifecycle Management) tool set, Teamcenter, as a cloud-based solution.

"Dynamic PLM Service", as it is called, provides a bundled suite of industry specific PLM applications based on Siemens Teamcenter as well as both hosting and operation of the necessary IT infrastructure along with all supporting services.

The solution is aimed at mid-sized industrial companies with demand for a mature PLM solution, but anxious to risk a lengthy on-premise implementation with the all usual costs and perils. Dynamic PLM Service will be offered instead for a single user-based price and billed monthly. The contract can be terminated within one month if so desired.

Dynamic PLM Service is designed to enable individuals to do more work in less time by providing users with the product and process knowledge they need to succeed in their business. By providing access to PLM by the web-browser on demand, without the need to care about infrastructure and capacities, Dynamic PLM Services extends access to product data to a broad base of both technical and business users.

Kontakt

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