CIMdata

PLM Industry Summary

Christine Bennett, Editor

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Acquisitions

Mercury Computer Systems Announces the Sale of its Visualization Sciences Group to IRDI-ICSO Private Equity for US$12 Million

10 June 2009

Mercury Computer Systems, Inc. announced that it signed a definitive agreement and closed on the sale of its Visualization Sciences Group (VSG) to IRDI-ICSO Private Equity, based in Toulouse, France. The purchase price paid at closing is US$12 million, with an additional amount of up to US$2.5 million payable upon achievement of certain performance milestones over a period ending June 30, 2013.

VSG provides advanced 3D visualization tools for engineers and scientists, delivering high-end 3D software solutions for scientific data visualization, engineering and simulation, materials science and geosciences. IRDI-ICSO assumes responsibility through a holding company, with VSG operating as an independent entity.

"With this transaction, we have successfully met our goal of portfolio rationalization completion before fiscal year-end," said Mark Aslett, President and CEO of Mercury Computer Systems. "The successful match of VSG with IRDI-ICSO can provide the necessary financial support to build on VSG's growing business in the 3D visualization space. Moreover, all VSG employees and customer commitments transition with the sale. The existing management team will also remain intact, ensuring that business operations will continue uninterrupted."

IRDI-ICSO Private Equity is the largest independent regional actor in France, managing funds at risk (FCPR) and Investment Funds Proximity (FIP) to cover the needs for capital funding in the West and South of France and Northern Spain.

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PTC Acquisition of Relex - Frequently Asked Questions

June 2009

On June 3, 2009, PTC acquired privately held Relex Software Corporation. Relex provides software and services for analyzing design and field data in order to evaluate and improve product reliability and safety. Relex products and services are used by thousands of customers in a variety of businesses around the world, including aerospace & defense, medical equipment, telecommunications, electronics and high-tech, automotive, and industrial equipment.

With this acquisition, PTC is broadening its product analytics strategy to include product reliability in addition to the established capabilities for assessing products for environmental compliance. This FAQ is intended to help PTC and Relex customers, partners, media and shareholders understand details about the transaction.

Q: Who is PTC?

A: PTC is leading provider of product development solutions to discrete manufacturers enabling them to meet their globalization, time-to-market and operational efficiency objectives. Using PTC solutions, organizations in the Industrial, High-Tech, Aerospace and Defense, Automotive, Consumer and Medical industries are able to support key business objectives and create innovative products that meet both customer needs and comply with industry regulations. PTC is based in Needham, Massachusetts and has

over 5,000 employees in more than 20 countries around the world. For more information on PTC, please visit http://www.ptc.com.

Q: Who is Relex?

A: Relex was founded in 1986 to provide reliability analysis excellence. Over their 20+ year history, Relex has had a history of innovation and is recognized for its leadership, vision, and commitment to providing an out-of-the-box suite of reliability solutions and services which continually exceed customer expectations. Relex offers an extensive and comprehensive tool set which includes reliability prediction, system modeling, failure mode and effect analysis (FMEA), risk analysis, cost analysis, and statistical tools.

Q: What are the financial terms of the transaction?

A: Financial terms of the acquisition were not disclosed.

Q: When is the acquisition expected to close?

A: The acquisition is closed.

Q: Why was PTC interested in acquiring Relex?

A: PTC is excited about this acquisition because it is compelling from strategic and financial perspectives. Providing product analytic capabilities is part of PTC's strategy to assist manufacturers to make fast, accurate, informed decisions.

Specifically, Relex is able to help discrete manufacturers address the two key factors that influence how a product will perform and ultimately succeed in the field, product reliability and maintainability. In particular, market drivers including brand reputation, increased product complexity, total cost of ownership, warranty penalty cost and safety are compelling manufacturers to focus on analyzing and improving product reliability and maintainability. As a result, there is growing demand for solutions that will enable manufacturers to gain early insight into potential risk and reliability issues, predict reliability performance early in the design process, and track reliability against targets during product development. Further, companies need tools and methods that help strengthen communication of field performance data to design engineering for trends analysis and to incorporate reliability analysis considerations into the engineering change process to help avoid changes late in the design process.

Importantly, PTC views the Relex acquisition as a growth investment that will bring value to joint PTC/Relex customers and to PTC shareholders.

Q: Why is product reliability important to discrete manufacturers?

A: Today there are several market drivers elevating the urgency of discrete manufacturers to focus on analyzing and improving product reliability and maintainability. These include increased product complexity and warranty penalty costs, as well as safety concerns and the need to safeguard brand reputation. Companies are also concerned about risk mitigation, since 0% failure rates are practically unattainable.

To be successful, companies need to improve their ability to predict and measure product reliability but often lack the methods and tool to do this effectively. Relex's products and services were built with the knowledge that reliability is important in any industry and to any size company. Specifically, Relex's solutions help discrete manufacturers in the areas of:

- Early reliability planning and risk assessment

- Reliability prediction and simulation
- Reliability reporting
- Closed-loop field performance feedback

Q: How will the Relex solutions complement the PTC product portfolio?

A: The Relex acquisition is a key component of PTC's product analytics strategy. In today's competitive world, product development organizations are under constant pressure to understand the interplay among multiple product characteristics (e.g. environmental compliance, cost, reliability). Decisions made to optimize one dimension are likely to negatively impact performance in other dimensions. Ideally, product developers would be able to simultaneously analyze a series of product performance dimensions throughout the product's lifecycle, achieving the appropriate balance.

These pressures are the impetus for PTC's product analytics strategy. The addition of Relex to PTC's product analytics suite reflects the importance of this solution and the aim of PTC to enable product teams to perform product performance analysis and conduct effective tradeoff studies.

Q: What will be the impact on the PTC and Relex organizations?

A: The integration will take place throughout the remainder of fiscal year 2009. Key members of the Relex management team will be focused on helping to integrate the businesses in a way that ensures Relex is positioned to continue its track record of delivering industry leading products and customer value. As we integrate the businesses in the coming months, more details will be provided to PTC and Relex customers.

Q: How will this transaction impact PTC's go-to-market strategy?

A: Relex sales and services will continue to provide dedicated support to Relex accounts. Additionally, the Relex team will support PTC's sales team in servicing existing PTC customers.

Q: What is the integration plan for PTC and Relex products?

A: PTC is working to determine the best integration plan based on internal strategy and customer requirements.

Q: Who should customers or partners contact if they have questions about the acquisition?

A: PTC and Relex have developed a communications program for both companies' customers and partners. For more information about the acquisition, please visit: http://www.ptc.com/company/relex. If after reviewing the information posted on both companies' websites and other communications vehicles you have remaining questions, please contact your current PTC or Relex representative.

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PTC Expands Product Analytics Strategy with Acquisition of Relex Software Corporation

8 June 2009

PTC announced it has acquired Relex Software Corporation (Relex®), based in Greensburg, PA. Relex provides software and services for analyzing design and field data in order to assist in evaluating and improving product reliability and safety. Relex products and services are used by thousands of engineers in a variety of businesses around the globe, including aerospace & defense, medical equipment, telecommunications, electronics and high-tech, automotive, and industrial equipment. The company was

privately held and had approximately 50 employees. Financial terms of the acquisition were not disclosed. With this acquisition, PTC continues to execute its product analytics strategy, broadening its family of solutions to include product reliability in addition to environmental compliance.

Product reliability and maintainability are two key factors that influence how a product will perform and ultimately succeed in the field. Market drivers, including brand reputation, increased product complexity, total cost of ownership, warranty penalty cost and safety, are compelling manufacturers to focus on predicting, analyzing, and improving product reliability and maintainability. As a result, there is growing demand for solutions that will enable manufacturers to gain early insight into potential risk and reliability issues, predict reliability performance early in the design process, and track reliability against targets during product development. Further, companies need tools and methods that help strengthen communication of field performance data to design engineering for trends analysis and to incorporate reliability analysis considerations into the engineering change process to help avoid changes late in the design process.

Founded in 1986 with a clear and simple mission to provide reliability analysis excellence, Relex has a history of innovation and is recognized for its leadership, vision, and commitment to providing an out-of-the-box suite of reliability solutions and services.

Benefits delivered by Relex solutions include:

- Early Reliability Planning and Risk Assessment
- Reliability Prediction and Simulation
- Reliability Reporting
- Closed-Loop Field Performance Feedback

The Relex acquisition is a key component of PTC's product analytics strategy. In today's competitive world, product development organizations are under constant pressure to comply with international environmental regulations, reliability and maintainability requirements, while lowering lifecycle and product costs. Decisions made to optimize one dimension are likely to impact performance on these other dimensions. These pressures are the impetus for PTC's product analytics strategy.

By offering customers solutions that allow them to analyze across a series of product performance dimensions early in the product's lifecycle, PTC empowers them to make sound tradeoff decisions based on the aggregation of data from a variety of sources (e.g. supplier information, estimated data, field data, or data from component standards). With product analytics software, PTC aims to provide a comprehensive solution to streamline prediction and analysis of product performance, provide visibility to product development stakeholders and enable effective tradeoff studies.

"The natural synergy between product lifecycle management and reliability engineering makes Relex a logical addition to PTC's evolving product analytics family of solutions and underscores PTC's holistic approach to product development," said James Heppelmann, president and chief operating officer, PTC. "This acquisition benefits PTC customers by enabling them to incorporate critical reliability analysis capabilities as part of a total solution to help them further optimize their product development processes."

"Relex solutions help leading companies of all sizes and across many industries improve their ability to predict and measure product reliability, enabling them to proactively address possible reliability and safety issues throughout the product lifecycle," said Kevin Van Fleet, co-founder, Relex Software

Corporation. “The incorporation of Relex solutions into PTC’s product analytics strategy will help companies to make better quality, more informed decisions to drive success with product development initiatives.”

Availability

Relex solutions are immediately available stand-alone as they were prior to the acquisition. To execute on its broader product analytics vision, PTC plans to combine the Relex solutions with its product analytics solutions as well as developing integrations between Relex and other components in the PTC product development system.

For more information about the acquisition, please visit: http://www.ptc.com/company/relex.

About Relex Software Corporation

After more than two decades of growth and experience, Relex Software Corporation has a full suite of 11 software tools in the global marketplace covering the full life cycle of user products. Relex Reliability Studio tools include Reliability Prediction, Reliability Block Diagram (RBD), Failure Mode and Effects Analysis (FMEA), Fault Tree, Weibull, Markov, Life Cycle Cost (LCC), Human Factors Risk Analysis, Maintainability Prediction, Optimization and Simulation (OpSim), and Failure Reporting, Analysis, and Corrective Action System (FRACAS). As a full solution provider, Relex Software also offers reliability engineering consulting services and training programs.

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CIMdata News

CIMdata Announces the Results of its Poll on Useful PLM Analytics

11 June 2009

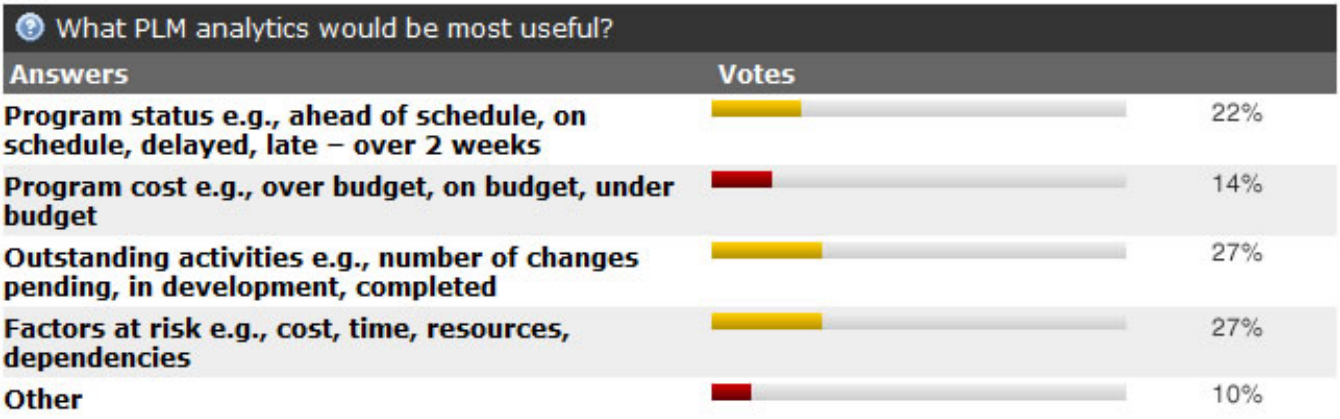
CIMdata’s latest poll continued to explore the need for, and use of PLM analytics. In the latest poll, the first question asked was what PLM analytics would be most useful. Responses to this question were evenly divided across all options. Providing visibility to outstanding changes and resource dependencies were the two most requested needs (27% of respondents each). Such visibility would enable designers, engineers, project managers, and others to understand the number of changes pending incorporation and in development, as well as the number of completed changes. Visibility into the cost, schedule, and use/availability of resources helps identify risks and bottlenecks in the development process and enables managers to be proactive in addressing these issues.

The third most requested need (22%) was for information related to scheduling so that managers can quickly review the status of development projects and programs. Cost information was identified by 14% of responders as another need for analytics. The status of project cost (over/under/on budget) is important in managing overall budgets to ensure that funding is available when needed.

When asked how frequently users would like to get analytics, the overwhelming majority (71%) indicated that real-time delivery and access is preferred. This reflects the continuing pressure to make decisions faster and to continually shorten the product development process.

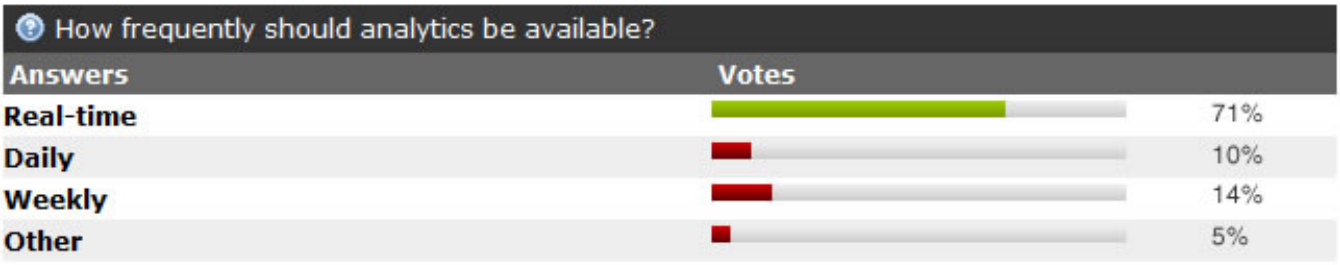
Finally, most respondents (59%) indicated that they would like to see PLM analytics delivered in multiple ways, e.g., email, automated phone calls, and pop ups within other applications as well as via standard reports.

These responses continue to reinforce the need for more status about the development process—from cost to schedule to resources as well as information about ongoing tasks and changes—to be available online and in real-time.



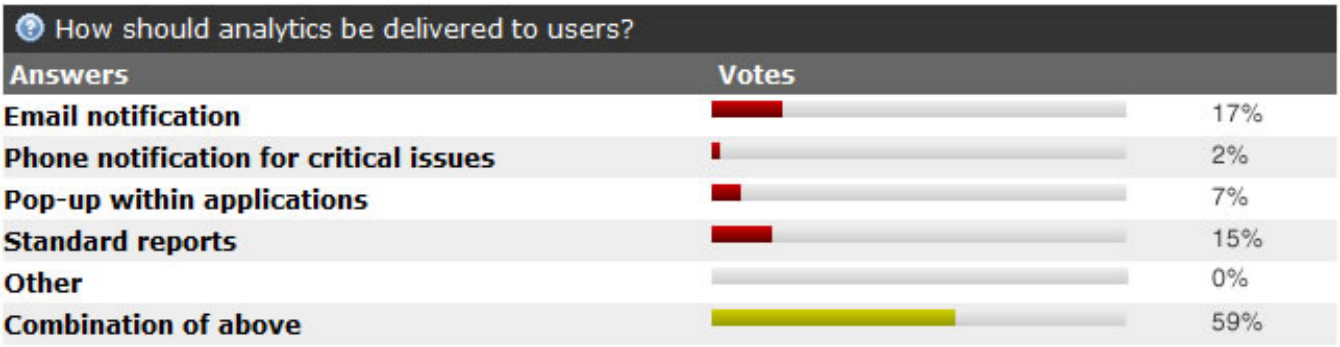
What PLM analytics would be most useful?

Answers	Votes
Program status e.g., ahead of schedule, on schedule, delayed, late – over 2 weeks	22%
Program cost e.g., over budget, on budget, under budget	14%
Outstanding activities e.g., number of changes pending, in development, completed	27%
Factors at risk e.g., cost, time, resources, dependencies	27%
Other	10%



How frequently should analytics be available?

Answers	Votes
Real-time	71%
Daily	10%
Weekly	14%
Other	5%



How should analytics be delivered to users?

Answers	Votes
Email notification	17%
Phone notification for critical issues	2%
Pop-up within applications	7%
Standard reports	15%
Other	0%
Combination of above	59%

NOTE: The results of these polls are anecdotal, not scientific.

If you have a suggestion for a poll you'd like to see contact us at info@cimdata.com.

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PTC's Acquisition of Relex (CIMdata Highlight)

11 June 2009

PTC announced the acquisition of Relex—a company with solutions focused on reliability analysis; they plan to integrate Relex's solutions as part of their Insight program. The acquisition of Relex expands PTC's focus on providing solutions that enable companies to better analyze both current and future

product designs for compliance, safety, reliability, and maintainability. Integration of Relex functionality with other PTC products, particularly Windchill, will enable designers and engineers to use reliability information earlier in the product development lifecycle to create better designs and reduce downstream service and warranty costs. CIMdata believes that PTC's acquisition of Relex will add value to their Product Development System and bring new and needed functionality into the PLM environment.

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Company News

Autodesk Adds Significant New Benefits to Assistance Program

10 June 2009

With more than 4,700 participants in the Autodesk Assistance Program and more than 5,400 product downloads to date, Autodesk is announcing significant additions to the program announced six weeks ago. The program was designed to help displaced workers in the architecture, engineering, design and manufacturing industries maintain and develop their 3D design technology skills and help improve their employability in a down economy.

Additions include the increase of available products from four to seventeen of the latest versions of Autodesk's 2D and 3D design and engineering software, a product discount for companies that hire program participants, a new term license for AutoCAD software and enhancements to eLearning materials.

"Thank you for the Autodesk Assistance Program," said Victoria Leichsenring, a CAD designer from Las Vegas, Nevada. "I have been out of work for 16 months and worried sick because if I went back to school I would lose my unemployment benefits. How would I keep up on my job skills until my industry starts hiring again? This program has turned out to be far more beneficial to me than going to a local college, because I have learned so much more and at a faster pace. It also has saved me money and time. Thank you, Autodesk, for coming to the rescue and offering this program."

Autodesk Assistance Program tools and resources are available through an online portal, where users can learn more about the program enhancements, including:

Employer Discount: Companies that hire program participants not only benefit from the extensive training resources that have been provided to these candidates, but also receive a discount of up to 40 percent for new commercial licenses of AutoCAD, AutoCAD Inventor Suite, Autodesk Revit Architecture, and AutoCAD Civil 3D software. This offer is designed to make hiring more attractive and therefore create more jobs in the industry. Program participants needing a commercial license of software to perform consulting may also be interested in taking advantage of this offer.

New Term License: Autodesk is now offering a new 12-month stand-alone license of AutoCAD 2010 or AutoCAD 2009 software for $1,995 to commercial customers in the United States. This new offering is designed to help customers meet project demands, while faced with limited budgets, project-based budgets, or simply to meet peak demand requirements in unpredictable markets.

Firm Resources: To help firms improve productivity and examine work processes, Autodesk has made a number of resources related to Digital Prototyping (DP) and building information modeling (BIM) available on the Autodesk Assistance Program online portal. These resources cover a wide range of

projects, including the types of projects funded by the American Recovery and Reinvestment Act of 2009.

Products Available: In addition to the 2010 versions of AutoCAD, Autodesk Revit Architecture, Autodesk Inventor Suite, and AutoCAD Civil 3D software, program participants can now also access a free* 13-month term (except where noted) student license of the latest version products in the following industries:

-- For AEC Professionals: The program now offers a broader representation of the BIM portfolio, including AutoCAD P&ID, Autodesk Revit Structure, AutoCAD Revit MEP Suite, AutoCAD Architecture, Autodesk Ecotect Analysis and Autodesk Navisworks Manage software.

-- For Manufacturing Professionals: The program now offers a broader representation of the DP portfolio, including AutoCAD Electrical, AutoCAD Mechanical, Autodesk Alias Surface and Autodesk Alias Design software.

-- For Geospatial Professionals: The program now includes AutoCAD Map 3D software.

-- For Media and Entertainment Professionals: The program now includes 90-day licenses of Autodesk 3ds Max and Autodesk Maya software.

New eLearning Materials: In addition to the more than 70 Value-Added Resellers and Autodesk Authorized Training Center (ATC) partners that are offering classroom training at their facilities for free or for a significantly reduced fee, Autodesk has bolstered the online training resources to include two new elements:

-- Autodesk University (AU) Online: Autodesk Assistance Program members may receive full access with a separate AU Online membership. This valuable resource provides 1,000-plus session videos and handouts, including more than 400 sessions from AU 2008.

-- Subscription e-Learning: The same great learning resources available to Autodesk Subscription customers are now available to Autodesk Assistance Program members, including 15-20 minute interactive modules that offer hands-on exercises and knowledge-assessment tools.

For more information about the Autodesk Assistance Program, contact your local reseller or contact Autodesk directly at assistance@autodesk.com, or visit http://www.autodesk.com/assistanceprogram.

*Free products are subject to the terms and conditions of the end-user license agreement that accompanies download of the software.

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Gerber Technology and Geometric Partner to Provide Integration Services Between ERP Systems and Gerber's Apparel PLM

10 June 2009

As a part of its growing Certified Services Partner Program for Product Lifecycle Management planning and implementation, Gerber Technology and Geometric Limited have entered into a strategic partnership. This new relationship enables companies in the fashion and apparel industry to deploy Gerber's established PLM solutions, while tightly integrating them to their ERP systems.

Geometric will provide a variety of Apparel PLM and enterprise integration services to help companies incorporate Gerber's PLM software suite -- including webPDM™, webView™ and webFolio™ -- to their existing business systems.

"Gerber Technology's partnership with Geometric provides significant benefits to our customers," says Bill Brewster, Gerber Technology's Vice President, Global Marketing and Product Management. "Together with Geometric's unique capabilities and understanding of PLM, Gerber Technology is better able to ensure that our customers can protect and extend the value of PLM across their entire enterprise. Tight integration of systems to support supply chain visibility and agility is of paramount importance to a fashion company's profitability."

Atul Dhakappa, Practice Head, Fashion Solutions at Geometric Limited goes on to say, "Gerber has been a prominent player in the fashion and apparel industry for over four decades, and we are very happy to be a member of their Certified Services Partner Program. This will provide Gerber's customers the opportunity to leverage a global services model." Dhakappa adds, "With our experience and capabilities in PLM integration services, we offer several unique opportunities to further leverage Gerber's PLM software suite throughout the apparel and flexible materials industry."

Geometric has a unique methodology, D.R.A.P.E.D.™ that helps in accelerating PLM integration by over 25% for Fashion and Apparel customers.

Gerber Technology's modular Product Lifecycle Management suite, for the business of fast fashion, enables customers to embrace PLM at their own pace. Products in Gerber Technology's PLM software suite include webPDM, webView and webFolio. With Geometric as a Certified Services Partner, Gerber's PLM software suite will enable companies to link functionalities and geographies throughout their supply chain to enable efficiency and speed-to-market.

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PTC Gold Loyalty Program Passes Savings on to Maintenance Customers

8 June 2009

PTC announced several new partner participants in the PTC Maintenance Gold Loyalty Program. The Gold Loyalty Program rewards active maintenance customers with special offers and discounts from a select group of PTC software and hardware partners. Active maintenance customers are automatically enrolled in the free program. Current participating partners include 3Dconnexion, Inc.; Mentor Graphics Corporation; Objet Geometries Inc.; Virtalis; and Z Corporation.

PTC is pleased to announce that the following partners have joined the program: CADNexus Inc., Dell

Inc., Knovel Corporation and Lenovo Inc.

The participating partners appreciate that the PTC Maintenance Support group is making a special effort to acknowledge the loyalty shown by its community of software users. “The PTC Maintenance Gold Loyalty Program provides 3Dconnexion with a unique opportunity to address the needs of PTC customers and deliver our solutions at the most economical price for a key group of software engineers,” stated Grzegorz Sobczyk, Director of Business Development at 3Dconnexion.

“PTC recognizes that customers make a conscious decision to invest in maintenance and we are committed to helping them realize value from that commitment,” said Anthony DiBona, Executive Vice President, Global Maintenance Support, PTC. “The Gold Loyalty Program provides a way to show customer appreciation by delivering additional value without additional costs. It’s a win-win for our customers and participating partners.”

Custom Mold & Design of New Hope, MN, an industry leader in precision, high-volume molds with fully interchangeable components, was one of the first customers to take advantage of a partner offer. Custom Mold & Design relies on Pro/ENGINEER® models to meet the high tolerances required for its molds. The more efficient they are in developing those models, the more quickly they can meet their customers’ needs. A member of Custom Mold & Design’s engineering team was using the SpacePilot 3D mouse from 3Dconnexion, and found it useful to manipulate 3D models. Through a special Gold Loyalty Program offer from 3Dconnexion on the PTC Web site, the company was able to purchase additional devices at a discount.

“The Gold Loyalty Program is an added benefit to the value that we’ve always received from our maintenance relationship with PTC,” stated Mark Morris, General Manager, Custom Mold & Design. “Given today’s economy, it couldn’t have come at a better time. We used the program discount to purchase products at a discounted price, which ultimately helps us to better serve our customers.”

All attendees of the PTC/USER World Event in Orlando, Florida June 7 – 10, 2009 are invited to visit the PTC Gold Loyalty Partner Booth #501 featuring 3Dconnexion.

For more information, please visit: http://www.ptc.com/support/maintenance/gold/

Tune in to http://www.ptc.com/events/ptcuser09/ for real-time event coverage through Tweets and Blogs from PTC staff and event attendees. We’ll be tagging all event Tweets with #ptcuser09. Follow PTC on Twitter @Did_You_Know.

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Right Hemisphere Receives Top 2008 Supplier Award from Gulfstream Aerospace

10 June 2009

Right Hemisphere® announced it has received a 2008 Supplier of the Year award from Gulfstream Aerospace — a wholly owned subsidiary of General Dynamics. Award selection was based on the Gulfstream supplier measurement rating card, which evaluates overall solution value, delivery, quality, customer service and compliance for all Gulfstream suppliers. The companies singled out for recognition scored 100 percent in all card categories throughout 2008.

Right Hemisphere’s software allows companies like Gulfstream to repurpose their complex product information across a wide variety of business workflows. Right Hemisphere’s software does this by unifying visual product information from engineering with relevant business data readily available in

corporate CAD, PLM, and ERP systems. The software then synchronizes and delivers that data to various departments around the company to help simplify and speed the creation of a wide variety of downstream deliverables.

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Synopsys Enables System Design Interoperability With System-Level Catalyst Program

8 June 2009

Synopsys, Inc. announced its System-Level Catalyst Program to accelerate the adoption of system-level design and verification. Open to electronic design automation (EDA) vendors, intellectual property (IP) vendors, embedded software companies and service providers, the program is designed to benefit mutual customers by advancing tool and model interoperability as well as availability of system-level models and services. Members of the System-Level Catalyst Program gain access to Synopsys system-level and rapid prototyping products such as Innovator, DesignWare® System-Level Library, System Studio, Synplify® DSP and the Confirma™ platform. System-Level Catalyst Program members may also use the Synopsys System-Level Catalyst logo with their products or services to indicate system-level interoperability.

The System-Level Catalyst Program provides members tool access to validate and demonstrate interoperability or to support customers:

• IP Providers and EDA vendors get access to and support for Synopsys tool and library offerings to validate and demonstrate interoperability of system-level models of their IP and their tool solutions.

• Embedded software vendors get access to Synopsys' Innovator and DesignWare System-Level Library to validate and demonstrate interoperability of debuggers.

• Qualifying embedded software developers who specialize in the development of drivers and software for Synopsys DesignWare Cores get access to virtual platforms and Confirma rapid prototyping platforms for software development prior to silicon availability.

• Training and services companies can help system-level teams rapidly adopt the best practices for system-level design, virtual platforms, digital signal processing and FPGA based rapid prototyping.

Founding members of the System-Level Catalyst program include: Agilent EEsof, Altera, ARC International, Carbon Design Systems, Cebatech, ChipVision Design Systems, Cofluent Design, CoWare, CriticalBlue, Doulos, Emsys, Enterpoint, Forte Design Systems, GreenSocs, IBM, Imperas, JEDA Technologies, Jungo, Lauterbach, MCCI, NoBug, SDV Ltd., Steepest Ascent, Synfora, Target Compiler, Tensilica, VaST Systems and Xilinx.

"The system-level market's growth and our customers' adoption of system-level methodologies have been limited by severe market fragmentation and lack of model and tools interoperability," said George Zafiropoulos, vice president of Solutions Marketing at Synopsys. "With the System-Level Catalyst Program Synopsys is helping open up the system-level market to mainstream adoption, enabling new levels of interoperability."

To learn more about what Synopsys System-Level Catalyst members are saying about the benefits of the program, please go to http://www.synopsys.com/slcatalyst_quotes.

About System-Level Catalyst Program

The Synopsys System-Level Catalyst Program provides members access to Synopsys system-level products, enabling the development and support of program members' respective system-level tools, models, training and services. Open to electronic design automation (EDA) vendors, intellectual property (IP) vendors, embedded software companies and service providers, the program is designed to benefit mutual customers by advancing tool and model interoperability as well as availability of system-level models and services.

For more information please go to http://www.synopsys.com/slcatalyst.

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VISTAGY Appoints Joshua Fredberg to Newly Created Position of Vice President of Product Management & Marketing

11 June 2009

VISTAGY, Inc. announced the appointment of Joshua Fredberg as the company's first vice president of product management and marketing. Mr. Fredberg will be responsible for managing VISTAGY's products, developing positioning and messaging and working with the company's partners. Mr. Fredberg's appointment signals VISTAGY's determination to build on the momentum it generated in 2008 so it can expand its leadership in the aerospace, automotive, transportation interiors and wind energy industries.

Mr. Fredberg brings VISTAGY deep software industry experience as well as expertise in defining target market solutions, strategy and messaging. Mr. Fredberg previously served as senior vice president of product and market strategy at PTC, where he worked on industry strategy, marketing and business development. Prior to PTC, he was director of business development at Ariba. Before that, he worked at Andersen Consulting Strategic Services where he consulted on corporate strategy for technology companies.

"Our products are resonating more than ever with customers and prospects alike as companies strive to design and manufacture better performing products with fewer resources and more efficient business processes," said Steve Luby, president and CEO of VISTAGY. "Josh's demonstrated leadership and expertise in product management and marketing strategy will enable us to take the next step in growing our product portfolio and expanding our presence in the aerospace, automotive, wind energy and transportation interiors markets."

"I am pleased to join VISTAGY because it is a dynamic and innovative company that is poised to take advantage of significant opportunities in its target markets," said Mr. Fredberg. "VISTAGY has the people, the products and the expertise to help manufacturers solve their most vexing design-to-manufacturing challenges, so I am looking forward to working with the team to determine how best we can fully leverage those opportunities."

Mr. Fredberg attended the Wharton School of Business where he earned his MBA with a concentration in finance. He also attended the University of Pennsylvania where he received a master's degree in systems engineering. He received his bachelor's in electrical engineering from Tufts University.

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Events News

Autodesk Takes Flight at 2009 Paris Air Show

10 June 2009

Autodesk, Inc. will showcase its new 2010 product line for the aerospace industry at this year's International Paris Air Show from June 15-21 .

The company's premiere at the industry exhibition signals its intention to aggressively sell its Digital Prototyping software to the US$675 billion aerospace and defense market. Autodesk has been a trusted provider of engineering applications to aerospace suppliers for more than 25 years. Autodesk Inventor 2010 software and the complete Autodesk solution for Digital Prototyping represent an opportunity for suppliers to deliver more creative and innovative work while saving time and resources in the design-to-manufacture process.

"Autodesk is uniquely positioned to fill the needs of aerospace suppliers by enabling global design and engineering teams to design, visualize and simulate their products and processes," said Andrew Anagnost, vice president of engineering, design and simulation for the Manufacturing Industry Group at Autodesk. "Our presence at the Paris Air Show is a natural extension of our commitment to helping global manufacturers of all sizes bring their products to market faster, at lower cost."

At the Paris Air Show, Autodesk will demonstrate its new aerospace industry software solutions for three key processes:

Interior design: Autodesk Alias Design and Autodesk Alias Surface software are one of the industry leaders for concept design and modeling, visualization and surfacing for aerospace interiors. Suppliers can strike the right balance between functional requirements and designing visually appealing aircraft interiors that differentiate them from the competition.

Engineering and production: Inventor software enables engineers across different teams to simulate and evaluate material choices, design options and manufacturing processes with a single digital model, reducing the number of costly and time-consuming physical prototypes. By extending Digital Prototyping to the factory floor, the Autodesk Navisworks family of products helps engineers make informed decisions about manufacturing facilities, equipment and tooling to help reduce errors and shorten lead time.

Repair and maintenance: Inventor software incorporates 3D product geometry from a variety of sources to develop tools and fixtures used in aerospace maintenance procedures. Tight interoperability between Inventor, AutoCAD Mechanical and AutoCAD software also provides an efficient way to create and update documentation for these tools and fixtures.

The Autodesk solution for Digital Prototyping enables use of a single digital model across the Autodesk product line and also provides compatibility with legacy applications already in use by suppliers and their customers.

Autodesk in Aerospace

The Autodesk solution for Digital Prototyping helps aerospace manufacturers and suppliers bring together design data from all phases of the product development process to develop a single digital model created in Inventor software. The single digital model simulates the complete product and gives engineers the ability to design, visualize and simulate their product with less reliance on costly physical

prototypes - thereby helping to improve time-to-market and increase competitive advantage.

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Bentley Announces Be Connected: An Online Seminar Series Covering Breadth of Topics to Help Infrastructure Professionals Stay Abreast of Best Practices and Technology

11 June 2009

Registration Now Open for Series That Runs June Through November

Bentley Systems, Incorporated announced that registration is now open at http://www.Bentley.com/BeConnected for its Be Connected online seminar series. Be Connected gives architects, engineers, builders, geospatial professionals, and owner-operators a chance to learn about applying information modeling from some of the world's leading infrastructure practitioners – free of charge, in both live and OnDemand formats. The series, which takes the place of this year's Be Conference, begins June 23.

"With over 150 best practices and product seminars, the Be Connected online seminar series is the best way for both practitioners and business leaders in infrastructure to keep up with the latest trends in practice and technology, without the time and expense required when traveling to a conference," said Bentley's chief marketing officer, Ed Mueller. "This is 'professional conference-quality' content, brought to your desktop at no charge.

"If you are an AECO or geospatial professional serious about staying on top of your game, Be Connected is an ideal solution. It is Bentley's response to the global challenge of finding new ways to create value without adding costs."

Be Connected offers two types of online seminars:

Best Practices Seminars – Presented by leading infrastructure professionals around the globe, these sessions bring a project perspective on best practices for the design, construction, and operation of specific types of infrastructure projects, including a series of seminars on each of the following: bridges, cadastre and land development, communications, electric and gas utilities, high performance buildings, mining and metals, oil and gas, rail and transit, roads, and water and wastewater.

Product Seminars – Presented by Bentley's top product executives and designed for both current and prospective users, these technology-focused sessions demonstrate the latest features and capabilities of Bentley's comprehensive V8i software portfolio for sustaining infrastructure.

The first presentation of these hour-long seminars will include a live Q&A teleconference, giving seminar attendees the opportunity to interact with leaders in the infrastructure professions. Each seminar will then be offered OnDemand, allowing participants to attend multiple sessions at times of their choosing. In addition, participants can join discussion groups about the topics presented in the seminars on the Be Communities professional networking website, further extending the value and the insights gained in the seminar.

Be Connected attendees will learn how to successfully employ new workflows, information technology, and delivery methods – enabling them to work smarter, improve their productivity, lower costs, and advance their careers. Every Be Connected participant will be provided transcripts indicating seminars attended and Bentley Institute Learning Units earned.

"The unique delivery system and breadth of topics covered make our Be Connected seminar series a first

in the infrastructure community," said Carey Mann, vice president, solutions, Bentley Software. "The topics are aligned with the breadth of infrastructure addressed by Bentley's comprehensive portfolio of software."

Added Mann, "Put simply, Be Connected enables infrastructure professionals, including owners and the consultants who serve them, to be engaged, be informed, and be empowered – all without leaving their offices."

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COADE and EMT-R to Participate at Moscow International Oil & Gas Exhibition June 23-25

10 June 2009

COADE announced that the company will be exhibiting with EMT-R at the 10th Moscow International Oil & Gas Exhibition (MIOGE) on June 23-25, in Pavilion 8, Hall 1. EMT-R is the COADE Global Network Partner (CGNP) in the region. Featured will be demonstrations of the company's software products including CADWorx Plant Design Suite; CADWorx fieldPipe, for laser-precise 3D models completed onsite; CAESAR II, a widely used program for pipe stress analysis; PV Elite, for pressure vessel and heat exchanger design and analysis; and PV Fabricator, a new product for creating vessel fabrication drawings directly from analysis information. MIOGE will be held at the Expocentre on Krasnaya Presnya in Moscow.

The COADE CADWorx Plant Design Suite is a complete solution for process plant design that offers intelligent drawing to database connectivity and the industry's only truly bi-directional links between CAD and engineering analysis. Because of its distinct advantages, it has been rapidly adopted in Russia and other global markets by EPC firms and owner operators in the process, power, water treatment, pharmaceutical, food and beverage and semiconductor industries. CADWorx fieldPipe produces AutoCAD-based, laser-precise 3D models, site designs, spool drawings and design verification from any field site. It makes producing as-built of existing facilities faster, easier and safer.

Event details are at http://www.mioge.com/2009. Information on EMT-R is at http://www.emt.ru Information on COADE and its products can be found at http://www.coade.com.

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Delcam to Preview PowerMILL 10 with Global Webinars

11 June 2009

Delcam and its international network of Sales Partners will preview the latest new version of the PowerMILL CAM system with a global series of webinars next week. More than 20 Sales Partners in 15 countries will be hosting webinars to demonstrate the new features in the program during the week. A full list of the dates, times and languages can be found at http://www.powermill.com/globalpreview/.

The new release of PowerMILL offers Delcam's fastest-ever programming through a combination of background-processing and multi-threading technologies that will increase productivity and reduce lead times. Tests at Delcam indicate that a dual core computer running PowerMILL 10 will perform raster machining calculations in around 55% of the time taken by a single core machine with PowerMILL 9, while a quad core machine will complete the calculations in around 35% of the time.

Perhaps even more important is that PowerMILL 10 will eliminate any waiting time for the user.

Strategies and parameters for one operation can be prepared and edited in the foreground, while calculating other toolpaths in the background using the full power of the multi-core machine. Calculations can be queued by the operator and the software will automatically start the next operation as soon as each toolpath is generated.

Other enhancements in the new release to further increase productivity include reduced memory usage when programming the largest and most complex parts, and improved ordering to give faster cycle times on the machine tool.

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Delcam to Show Faster Machining at FIP, Lyon

10 June 2009

Delcam will demonstrate the latest version of its PowerMILL CAM system at the FIP exhibition for the plastics, rubber and composites industries to be held in Lyon from 16th to 19th June. The new release of the software offers Delcam's fastest-ever programming through a combination of background-processing and multi-threading technologies.

The new faster programming will make the Delcam software popular with toolmakers that are looking to increase productivity and reduce lead times.

The new version of PowerMILL is the first release to take advantage of the availability of multi-core, multi-processor machines at more affordable prices. This equipment gives even faster processing times for the software, which is already acknowledged to offer some of the quickest calculation times in the industry.

The improvements will be most noticeable for companies machining very detailed cores and cavities, and those manufacturing larger tools. Tests at Delcam indicate that a dual core computer will perform raster machining calculations in around 55% of the time taken by a single core machine, while a quad core machine will complete the calculation in around 35% of the time.

Perhaps even more important is that using PowerMILL on a multi-core computer will remove the waiting time for the user. With a conventional computer, the operator must wait for one calculation to be completed before they can move on to the next operation. A series of operations can be compiled, for example for overnight calculations, but this is little help if the job is especially urgent.

With a multi-processor computer, the user can set the parameters for a second calculation on the part while the first calculation is still running. The two calculations can even be on different areas of the component, for example, when applying different strategies to machine the spilt surfaces from those being used for the main core or cavity. The computer will then automatically start the next operation in the sequence as soon as each calculation is completed. Any unfinished calculations at the end of the user's shift will be completed after he has left work.

Other enhancements in the new release to further increase productivity include reduced memory usage when programming the largest and most complex parts, and improved ordering to give faster cycle times on the machine tool.

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Delcam to Show Fastest-Ever CAM at Hurco Open House

8 June 2009

Delcam will demonstrate the latest version of its PowerMILL CAM system at an Open House to be held by Hurco Europe at its UK base in High Wycombe from 6th to 9th July. This new release, version 10, offers the fastest-ever toolpath generation on multi-processor computers, giving greatly increased user productivity. It incorporates the latest background-processing and multi-threading technologies and so uses the full power of recent hardware developments to reduce calculation times and increase output dramatically.

Other enhancements to further increase productivity include reduced memory usage when programming the largest and most complex parts, and improved ordering to give faster cycle times on the machine tool. This more efficient machining will be demonstrated on several of the latest Hurco machines on show during the Open House.

With PowerMILL 10, users can prepare data in the foreground while calculating toolpaths in the background. This eliminates the need for the user to wait for each calculation to be completed before he can start preparing the next operation. Calculations can be queued by the operator and the software will automatically start the next operation as soon as each toolpath is generated.

The new multi-threading capabilities allow calculations to be divided between the cores in a multi-core machine. This improves calculation times significantly so increasing user productivity, reducing any down-time where machine tools are waiting for NC data and minimising lead times.

The extent of the savings will depend on the size and complexity of the part being machined and on the programming strategies being used. Tests at Delcam indicate that a dual-core computer will perform raster machining calculations in around 55% of the time taken by a single core machine, while a quad-core machine will complete the calculation in around 35% of the time.

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GibbsCAM to be Demonstrated at Haas Demo Days

11 June 2009

Gibbs and Associates, developer of GibbsCAM® software for programming CNC machine tools, and a Cimatron company, announced that GibbsCAM will be demonstrated as part of Haas Automation's upcoming annual Demo Days to be held June 17, from 10AM to 5PM, at various Haas Factory Outlets (HFO) throughout the United States and Canada. "Participation in the Haas Demo Days is a great opportunity to demonstrate the extensive new features of GibbsCAM," states Bill Gibbs, Gibbs and Associates company founder and president. "While a good percentage of our customers use GibbsCAM to generate CNC programs to drive Haas machine tools, Haas uses it in daily machine-tool production. Furthermore, Haas application engineers use GibbsCAM to demonstrate the wide capabilities of their machine tools."

The one-day Demo Days events will feature the latest affordable, super-high-production CNC machines from Haas, with live demonstrations on every machine in the HFO showrooms. Live demonstrations of the latest GibbsCAM, version 9.3, will show how it creates efficient CNC programs for Haas machine tools. The GibbsCAM Advanced 3D High Speed Machining (HSM) and 5-Axis modules will be featured, together with postprocessors that support every Haas machine tool made. The other GibbsCAM modules will also be available for demonstration, including GibbsCAM TMS (Tombstone

Management System), which was originally developed to support Haas' internal tombstone programming with efficient layout and programming of tombstone-fixtured parts.

The Advanced 3D HSM module comprises multiple machining methods specifically developed for multi-surface hard milling and high speed machining in SolidSurfacer® to provide high quality surface finishes that reduce or eliminate polishing. The various machining styles are useful for multiple applications and offer smooth entries, exits and cutting motions, with steep or shallow angle limits, rest passes, tool-holder collision checking, and options to change cutting style. These styles are Contour, Constant Step Over Cut, Flats Cut, Lace Cut, Intersections, Automatic Core Detection, and Improved Pocketing.

The GibbsCAM 5-axis Module provides multi-surface 5-axis roughing and finishing; multi-surface, 5-axis, flow-line machining; surface edge. 5-axis swarf cutting (typically for trimming vacuum-formed parts); adaptable interface, based upon part-type strategy, shows only what is needed; advanced gouge checking to ensure safe cuts even in most complex operations; complete control of entry, exit, cut-to-cut and between-cut motion; 5-axis depth cuts machining; and integration with the GibbsCAM Machine Simulation module for complete toolpath verification and simulation of all the machine's moving components. Version 9.3, adds automatic tilting and various tilting options, plus many new enhancements to provide greater flexibility and productivity for using multi-axis machines.

For information about Haas Automation's Demo Days, visit the Haas Automation Web site at http://www.HaasCNC.com, or call 800-331-6746, or contact your local Haas Factory Outlet. For the cities where GibbsCAM will demonstrated, or to find out more about GibbsCAM or Gibbs' participation at Haas Automation's Demo Days, go to Gibbs' Web site at http://www.GibbsCAM.com.

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Join VISTAGY for a Webcast on June 18: Unlocking the Airframe Fastener Management Dilemma

11 June 2009

Date: June 18

Time: 11 AM EDT

Description: Fastener management is a common and costly bottleneck in the overall design process for airframe assemblies. Traditionally, fastener management has been a manual process plagued by inaccurate fastener definitions and difficulty making design changes. As a result, it is a leading source of manufacturing errors and slips in demanding delivery schedules.

Speaker: Join Paul Mouland of VISTAGY for a Webcast on **June 18 at 11 AM EDT** entitled: Unlocking the Airframe Fastener Management Dilemma. In this Webcast, Mr. Mouland will share ways to alleviate these problems with CAD-integrated software that enhances the accuracy and efficiency of the design process and provides an early warning of potential issues in the manufacturing process. He will describe how to reduce engineering time by up to 95 percent; improve the accuracy of fastener definitions by eliminating the 40 percent error rate in calculating grip lengths, and reduce the time it takes to update assembly models and generate accurate bills of materials. He will reference results achieved by some of the industry's largest and most sophisticated aircraft manufacturers.

Registration: http://www.vistagy.com/landing/webcast-fastenermgt.aspx

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Mastercam Showcasing Major New Developments at AMMO 2009

June 2009

American Manufacturing Exposition 2009 features the unveiling of two major developments in CNC Software's Mastercam CAD/CAM software. Attendees will get the first look at Mastercam's latest CAD/CAM software, Mastercam X4, as well as the new Mastercam® for SolidWorks® product. Both will be showcased in booth #424 at the Las Vegas Convention Center, Las Vegas, NV, on August 17-19.

Mastercam X4

Mastercam X4 brings users a suite of new toolpaths, Multi-threading ability, and much more.

Dynamic Machining – This new machining technique creates an active toolpath that delivers more consistent cutting conditions and allows use of the entire tool flute length, saving both time and money. Dynamic machining offers flexible retract options to keep the tool down in smaller parts, and rapid retract on larger parts.

Multi-threading – Mastercam Mill delivers multi-threading support, dividing complex tasks in a multi-core computer, and delivering faster processing and other benefits. You have the option to turn this on or off. When used in a single-core environment, multi-threading allows users to multi-task, prioritize running and pending tasks, and monitor the progress of toolpath calculation, which increases productivity.

Other X4 features include:

- Powerful 3D toolpath refiner for dramatically better finish
- Feature Based Machining Drill enhancements
- Feature Based Machining Mill enhancements
- Tree-style dialog boxes for 2D toolpaths
- Circle 5-axis toolpath
- Agie Support

Mastercam for SolidWorks

Mastercam for SolidWorks is fully integrated CAM that runs in SolidWorks. SolidWorks users can now program their parts directly within SolidWorks using Mastercam's toolpaths and machining strategies.

Mastercam for SolidWorks includes a suite of cutting strategies, including Feature Based Machining (FBM) and 3D High Speed Machining (HSM) toolpaths. HSM promotes longer tool life, faster machining time, and precision cutting by creating smooth cuts that eliminate dangerous sharp moves. Mastercam for SolidWorks also delivers a powerful set of automated cleanup toolpaths, letting you get parts off the machine faster and with little or no handwork.

For more information about Mastercam X4, please visit http://www.mastercam.com.

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Financial News

Cadence Announces Restructuring

10 June 2009

Cadence Design Systems, Inc. announced the commencement of restructuring measures designed to further streamline operations and position the Company for its next phase of strategic growth. Upon completion, Cadence expects to achieve annual operating expense savings of approximately $30 million, through a combination of workforce and other expense reductions. The expected annual operating expense savings take into account additional investments planned for areas of critical importance to the Company's customers, including verification and system-on-chip (SoC) development.

The Company expects to eliminate approximately 225 full-time positions, representing 5% of its global employee base. The reductions come primarily from resizing the worldwide field organization to current business levels, decreasing the level of investment in the manufacturing side of DFM (Design-for-Manufacturability) and other infrastructure areas of the business. Because of varying regulations in the jurisdictions and countries in which Cadence operates, these workforce reductions will be realized over a period of time and are expected to be completed in the second half of fiscal 2009. Cadence expects to record a restructuring charge of approximately $20 million to $25 million pre-tax, approximately $18 million of which will be recorded in the second quarter of 2009.

"Our top priorities are serving our customers and enhancing value for our shareholders," said Lip-Bu Tan, President and CEO. "The measures we are announcing today streamline our operations as we simultaneously invest to enhance technology leadership in key growth areas. We are confident that the changes we are implementing will make Cadence a stronger, more focused Company as we emerge from the current economic downturn."

"Our immediate focus is on our core capabilities, streamlining operations, and preparing for the next phase of Cadence's growth," said Kevin S. Palatnik, Senior Vice President, Chief Financial Officer. "Consistent with this focus, we have resized various levels of investment in the business, resulting in the actions announced today."

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Comet Solutions, Inc. Secures $1.4 million Ohio Innovation Loan

8 June 2009

Comet Solutions, Inc. has been awarded an Ohio Innovation Loan in the amount of $1.4 million to be used to accelerate the development of Comet's software for performance engineering in the product design process.

Capital from the loan will be invested in software development initiatives to better respond and meet the needs of customers in the aerospace/defense and off-highway industries as well as launch new applications to reach a broader market. Growth of the company as a direct consequence of these initiatives is expected to add approximately 35 new employees in the State of Ohio over the next several years.

Dan Meyer, president of Comet Solutions, Inc., states, "The Ohio Innovation Loan, along with additional equity investment in our company, allows us to improve our software products through

upgrading functionality, improving performance, developing modern open API architecture and expanding the set of 3rd party CAE and CAD tools we support." Meyer adds, "We remain committed to provide more benefits to our growing customer base and expand their use of Comet."

Meyer said, "Comet has established an office in Cincinnati, Ohio so we can take advantage of the region's rich manufacturing base and the talent, customers and partners it affords us. This is an ideal place to grow our business."

About the Ohio Department of Development

Working with partners across the public and private sectors, the Ohio Department of Development works to attract, create, grow, and retain businesses through competitive incentives and targeted investments.

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Implementation Investments

Boeing Implements PARTsolutions for 3D Part Catalog Management

9 June 2009

PARTsolutions, LLC, a global provider of product lifecycle management solutions (PLM) for 3D part catalog management and hosting, announced that The Boeing Company has entered into a multiyear agreement with PARTsolutions for software and services.

PARTsolutions 3D part catalog management software enables centralized, global access to proprietary, commercial, and standards based 3D parts, which are configurable in any CAD-native format with all associated attribute information to ensure fast part access, reuse, and compliance. PARTsolutions geometric search and compare technologies have been implemented and are being utilized in design reuse scenarios on various programs to reduce the introduction of duplicate parts to achieve dramatic cost savings.

"PARTsolutions is excited that Boeing is adopting our technology and deploying the suite across the Boeing enterprise," said Tim Thomas, CEO of PARTsolutions. "The business value to Boeing is well understood, and users will have the ability to share data across multiple CAD systems and across product programs with a centralized catalog database."

"Boeing has carefully developed its vision for Product Standards as Digital Data (PSDD), which includes the concept of utilizing a single source of shape data for standard part geometry to allow automatic standard parts model creation just in time instead of just in case," said Joe Hafner, Product Manager for PARTsolutions, The Boeing Company. "PARTsolutions is a component of our complete solution, as PARTsolutions integrates with all Boeing enterprise-wide design engineering technologies."

The PARTsolutions product suite delivers value to manufacturers and their supply chain through catalog solutions which streamline design collaboration for globally distributed teams. PARTsolutions is the only CAD-Native 3D part catalog management solution designed to preserve 3D standard part catalog content independent of CAD system or CAD version, thereby enabling 3D standard part catalog stability for current and future engineering design environments. The net result is designers can find approved standard parts fast with confidence to incorporate into their designs, to reduce product development costs, catalog management costs, and inventory costs.

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Casio Selects Cadence C-to-Silicon Compiler for High-Level Synthesis

8 June 2009

Cadence Design Systems, Inc. announced that Casio Computer Co., Ltd., has selected the Cadence® C-to-Silicon Compiler as its high-level synthesis solution. After a series of comprehensive benchmarks, Casio selected the Cadence solution over other industry products, citing the superior quality of results and predictability from C-to-Silicon Compiler.

C-to-Silicon Compiler is at the center of the Cadence next-generation TLM-based system-level design and verification solution. This solution combines Encounter® RTL Compiler, Incisive® Enterprise Simulator and C-to-Silicon Compiler to provide Casio an efficient, effective design and verification flow for mixed control and datapath designs, starting from SystemC, all the way to logic-gates.

“We conducted extensive testing to determine which technologies could meet our requirements and help us improve design and verification productivity,” said Kazuyuki Kurosawa, section manager, QV Digital Camera Division, Casio Computer Co., Ltd. “When we analyzed the results, we determined the C-to-Silicon Compiler, combined with the other Cadence technologies, were the strongest competitive offerings in the market. We are confident these will save us development time and reduce the risk of respins.”

C-to-Silicon Compiler high-level synthesis with embedded RTL Compiler enabled Casio engineers to produce IP with smaller area compared to the original RTL design. The combination of Incisive Enterprise Simulator (IES) with C-to-Silicon Compiler’s ability to automatically generate a SystemC wrapper for RTL verification using IES, enabled Casio to realize a seamless verification flow from SystemC to RTL.

“We recognized that a company like Casio, having a large IP portfolio, could benefit greatly from the increased designer productivity and IP reuse automation delivered by Cadence,” said Ran Avinun, System Design and Verification Product and Solutions Marketing Group Director of Cadence. “We’re pleased that Casio’s extensive benchmarking efforts drew the same conclusion, and joined to the rapidly growing list of new customers using C-to-Silicon Compiler.”

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Delcam Adds 30,000th Customer

8 June 2009

Delcam has recently gained its 30,000th customer, the German toolmaker Werkzeugbau Laichingen GmbH. Coincidentally, the order was again for six seats of the FeatureCAM feature-based CAM system, the same as that placed during 2008 by the 25,000th customer, JR Automation Technologies.

Werkzeugbau Laichingen undertakes the design, engineering and production of any kind of cutting and forming dies, but specialises in press tools, forming dies and punch tools up to 50 metric tonnes in weight. The company was founded in 1891 and now employs around 170 staff on two sites in Laichingen and Leipzig. As well as offering a complete design, manufacturing and maintenance service, it has equipment to produce samples and undertake inspection reports on the parts.

The success of the company comes not just from the high quality of its tools but also from its very fast

reaction times and rigorous adherence to delivery dates. To further improve its speed of response, Werkzeugbau Laichingen has invested heavily in the latest five-axis machines.

To gain the maximum productivity from this new equipment, Armin Schmid, head of CADCAM at Werkzeugbau Laichingen, needed a more powerful 3D CAM system. It had to allow programming directly based on the 3D CAD model and also be as flexible as the company's existing 2D programming system.

The decision to select FeatureCAM was made after an extensive presentation of the system by Delcam GmbH. This highlighted some major benefits of the software: it was able to import very large CAD models, up to 400MB in size, quickly and accurately; the feature recognition successfully interpreted the CAD data to give faster programming; and it allowed direct transfer of tool details, with the associated cutting data, from the existing tooling management system.

Another important reason was the ability to generate NC output for Heidenhain TNC controls. FeatureCAM not only generates the drilling cycles and other subprograms, but also utilises specific Heidenhain SL-cycles. This combination gives programs that are shorter and that are laid out more clearly. In addition, it allows the machine operator to quickly edit the parameters at the CNC control.

Helmut Nüssle, one of the FeatureCAM users at Werkzeugbau Laichingen, praised the speed of programming that has been achieved with the software. He has already started to investigate opportunities to customise FeatureCAM to his company's specific requirements and to automate repetitive tasks.

Mr. Nüssle also was impressed by the service provided by staff at Delcam GmbH. "The support was exceptional from our first contact through to the final quotation, as well as during the system installation and implementation," he reported. "This has given us the confidence that, with FeatureCAM and Delcam, we have a strong partner for the future."

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Faraday Technology Reduces IC Power Consumption and Cuts Design Time by 20 Percent Using Cadence Low-Power Solution

9 June 2009

Cadence Design Systems, Inc. announced that Faraday Technology Corporation has utilized the Common Power Format (CPF) enabled Cadence® Low-Power Solution to successfully tape out more than 20 low-power chip designs.

As a leading ASIC services company, Faraday has seen customers' designs increasing in complexity. This has resulted in a 3X average increase of design sizes over the past year. However, by using an integrated methodology based on the CPF-enabled Cadence Low-Power Solution, as well as adopting a platform-based design approach, Faraday was able to take on the increased design complexity and improve average design time by 20 percent over the course of the year. This trend was demonstrated consistently over a span of more than 20 low-power designs.

"The Cadence Low-Power Solution provides us with exactly what we need to produce a consistent and reliable flow for taping out low-power designs," said Kun-Cheng Wu, associate vice president of SoC & SiP Development and Service of Faraday Technology Corporation. "Leveraging the advanced technology in the Cadence Low-Power Solution, we now have a proven methodology providing the best power optimization design services for our customers worldwide."

"By being able to complete much larger designs in less time, with the added complexity of advanced low-power features, Faraday has shown that using the Cadence Low-Power Solution to optimize chip power consumption is the best way to go," said Steve Carlson, vice president of product marketing at Cadence Design Systems. "The phenomenal productivity results are a tribute to the union of great engineering and great engineering solutions."

The Cadence Low-Power Solution features critical technologies for power-efficient design, including the Encounter® Digital Implementation System and Conformal Low-Power. By using the Encounter Digital Implementation System for physical implementation, Faraday's design teams have access to native power domain support and integrated power signoff through Encounter Power System. In addition, Conformal Low-Power provides Faraday with pre-layout and post-layout functional and structural checking, ensuring correctness of the final silicon. Encounter Digital Implementation System and Conformal-LP are integral parts of the CPF-enabled Cadence Low-Power Solution.

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Hyundai Heavy Industries' Shipbuilding Division Selects Siemens PLM Software Technology To Implement Innovative Digital Shipyard

11 June 2009

Siemens PLM Software announced that Hyundai Heavy Industries' shipbuilding division (HHI), the leading shipbuilding company in Korea, selected Teamcenter® and Tecnomatix® software, Siemens PLM Software's digital lifecycle management solution and digital manufacturing solution, respectively, to enhance PLM innovation to help reduce cost and improve time to market.

HHI will use Teamcenter as its product data management backbone to automate its entire design process linking CAD drawings and technical data with bill of materials (BOM) to help eliminate errors resulting from isolated design changes. Tecnomatix will enable HHI to innovate its manufacturing process by building a digital shipyard to simulate its production environment to resolve errors and enhance efficiency.

HHI, which selected Siemens PLM Software following an extensive evaluation process, was looking for an efficient PLM system that would help optimize its collaboration and digital manufacturing environment. HHI cited Siemens PLM Software technology's performance and capacity as key decision factors. The company said it selected Siemens PLM Software because it received the highest marks in testing and because Siemens PLM Software was willing to supply a specialized shipbuilding template.

"The selection of Siemens PLM Software by a leader in the shipbuilding industry following a detailed evaluation process is proof positive that our industry specific solutions are right on target," said Kwon Kyung Ryul, vice president and managing director of Korea operations, Siemens PLM Software. "Siemens PLM Software places great emphasis on contributing to customers' vision through PLM and helping them turn more ideas into successful products."

Siemens PLM Software currently provides PLM solutions to several HHI business divisions including construction equipment, engine and machinery, and electro and electric.

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Megayachts Designed Using ANSYS Software Deliver Optimal Combination of Elegance and Performance

8 June 2009

ANSYS, Inc. announced that the yacht builder Delta Marine uses simulation software from ANSYS to create custom megayachts that are engineered from bottom to top for beauty, speed and strength. Buyers of these craft are interested in a luxurious interior and high cruising speed, so naval architects at Delta deliver a state-of-the-art craft without sacrificing performance. The company uses software from ANSYS throughout the design process to solve complex load distribution challenges, affording interior designers maximum flexibility in meeting customers' individual requests.

While open floor plans, exotic (and sometimes heavy-weight) wood trim panels, polished stainless steel columns and built-in furniture pieces may create luxurious surroundings, Delta's engineers know how critical it is to optimize the yacht's structural elements to deliver the required strength while avoiding any extra weight that would reduce speed. As a result, the company's naval architects turn to graphite composites, layered engineered materials that are stiffer and stronger than metals per unit of weight.

"Composites enable more flexible designs because their physical properties can be tailored to a very high degree. But at the same time, composites can be more complex to model than solid materials such as iron or steel," said Chad Caron, P.E., naval architect for Delta Marine. The depth of technology in software from ANSYS provides complete composite solutions, which otherwise would be quite challenging, since each composite layer can have different material properties. Delta uses ANSYS® technology to evaluate global and local stresses on a layer-by-layer basis. Most other structural analysis packages merely average the loads over the stack.

"ANSYS software tells us exactly where the load is going, down to the individual composite layer, so we are able to tailor the design to provide strength and stiffness exactly where it is needed," Caron said. "These capabilities free the designers to put walls and partitions wherever they want while at the same time keeping the weight to a minimum level. As a result, the design delivers the optimal combination of luxury and performance."

In the past, yacht interior design was constrained by structural considerations. For example, pillars needed to be aligned for structural integrity. "These days, a pillar is as likely as not to land in the middle of a beam. When pillars are not aligned, it becomes much more difficult to determine how loads will distribute among the various structural elements. Traditional design methods, such as handbook formulas and rules of thumb, are not adequate to achieve an optimized structural assessment. The load path becomes convoluted with many 90-degree angle turns that require taking the exact geometry and load locations into account. This means that analysis typically needs to be performed on a global basis, which in turn requires very powerful software and hardware," Caron added.

Delta engineers also perform simulation for vibration using ANSYS software, and the results provide information that allows naval architects to adjust the design only in the areas needed to increase strength or reduce vibration. In this way, simulation assists in keeping the structure as light as possible to deliver speed.

"Innovative designs often require innovative engineering solutions. Using Simulation Driven Product Development™ from ANSYS during the design phase allows companies like Delta to test and adjust the design of these large craft before they are built. This also makes it possible for them to create yachts with award-winning interiors based on aesthetics, not just structural considerations," said Dipankar Choudhury, vice president, product strategy and planning at ANSYS, Inc.

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Pixel Velocity Turns to Arena to Reduce Risk and Gain Efficiencies in BOM Management

11 June 2009

Arena Solutions announced some of the benefits that Pixel Velocity has seen since choosing Arena to support its long-term growth. Pixel Velocity adopted Arena collaborative bill of materials (BOM) and change management software to move beyond the practice of managing product development with email and spreadsheets, and as a result, has been able to develop its wide-area surveillance for advance threat detection and emergency response systems more efficiently and cost-effectively.

With Arena, Pixel Velocity manages all of its product information and history -- including BOMs, suppliers, costs, quotes, specs, drawings, files, compliance records and much more -- in a single, centralized, version-controlled repository. By putting up-to-date information at the fingertips of all who need it, regardless of geographic location, Arena has helped Pixel Velocity make better, faster decisions, develop products and more quickly bring its products to market. Able to track product information more quickly and reliably than when it used Excel, Pixel Velocity releases designs to manufacturing nearly 20 percent faster now that the company is using Arena.

"I'm responsible for releasing information to our suppliers and managing our change process. With Arena, we communicate design information more easily, make bid packages more accurately and make changes more quickly," said Matt McAmmond, director of manufacturing at Pixel Velocity. "Arena has helped us improve our processes and make fewer mistakes. I give it credit for helping us make production parts right from the get-go."

When using spreadsheets, Pixel Velocity had to be especially diligent to make sure each bill of materials (BOM) released to manufacturing was the right revision.

Pixel Velocity's intellectual property -- engineering documents, BOMs, manufacturing data and supplier information -- was among the company's most valuable assets, but with no good way to keep it in order, the company risked having it become one of its biggest liabilities. Pixel Velocity decided that a dedicated system for collaborative BOM and change management was better so it chose on-demand Arena because it could be deployed in days, with no IT overhead required, and begin delivering value right away.

To learn more about Pixel Velocity and its success with Arena, click here:
http://www.arenasolutions.com/pixelvelocity

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Procter & Gamble Selects MSC.Software's SimManager and SimXpert to Improve Engineering Productivity and Product Quality

10 June 2009

MSC.Software announced that the Procter and Gamble Company (P&G),is using MSC.Software's SimXpert and SimManager to drive design and process improvement for complex consumer product design. P&G's objective is to minimize the time required to perform advanced simulations and improve the accuracy and reliability of virtual prototypes and manufacturing process simulations in the pre-design phase of product development.

P&G selected MSC.Software as the ideal provider to enable them to meet these goals based on the abilities of SimManager to manage virtual build & tests, and SimXpert to capture and share automated best-practices allows manufacturers to run more simulations, with more reliability than ever before. P&G expects to realize major productivity improvements, product quality improvements, and more sustainable packaging designs.

"We have been studying the performance behavior of products throughout their entire lifecycle," explains Tom Lange, Director of Modeling and Simulation, P&G Corporate R&D. "We have always taken a best-in-class approach with our software providers, as we continue to identify new and innovative ways to improve the performance of product design, packaging and manufacturing through advanced simulation technologies. We are pursuing this with our partners with the promise of expanding the footprint of simulation from the expert only user communities out to the casual and practitioner communities, and the full utilization of the high performance compute resources. MSC.Software's SimManager and SimXpert solutions offer P&G the framework to accomplish each of these goals."

Future plans include leveraging the best practice templates created by P&G experts in the detailed design phase of new product development by extending their use to key suppliers and engineering partners. This forward thinking approach highlights the value of simulation and the thought leadership of P&G in extending the use of simulation tools, technology, and practices for maximum value and ROI.

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Sanjel Corp. Slashes Development Time with SolidWorks 3D CAD and Simulation Software

8 June 2009

Establishing oil wells in the Middle East requires a large investment in time, equipment, and money. Petroleum-producing companies that hire service companies to get their wells going set a high performance standard, demanding zero error and consistent, high levels of success.

When one oil driller needed special equipment – a robust, redundant cementing skid – it turned to Sanjel Corporation, a specialized energy service company headquartered in Calgary, Alberta, Canada. Sanjel designed and manufactured a cementing skid utilizing Sanjel's new SCM (Sanjel Cyclonic Mixer) cement mixing technology. Adapting an aggressive design stance and SolidWorks® 3D CAD software, Sanjel produced a working unit in six short months.

"Our designers and the fabrication team collaborated in real time around SolidWorks 3D models," said Kris Sato, senior mechanical designer at Sanjel Corporation. "This helped us deliver quickly on an important product that could easily have taken two years to build. SolidWorks software gave everyone involved a clear picture of what we were working on and working toward. SolidWorks kept us moving fast."

What exactly does the SCM Skid do?

The SCM skid provides cementing services for oil wells. This includes: *performing primary cementing tasks*, such as cementing the steel casing in the well; *remedial cementing*, like cement squeezes where a target zone in the oil well's column is slated for production; or executing *well kills* to keep the pressure of the formation fluids from entering the well bore.

These jobs are sensitive and critical. An equipment failure can mean a delay in petroleum production or severe damage to the oil well, costing time and money.

Sanjel's SCM skid is a self-contained mobile unit that can be transported on a large winch truck from site to site over unpaved desert roads or on the back of a low-boy trailer on paved highway. In developing the custom cementing unit, Sanjel used SolidWorks Simulation software to ensure it is rugged enough to withstand being loaded up onto the back of a winch truck, being lifted onto a cargo ship by crane, sustaining impacts from vehicles and machinery, and enduring conditions commonly encountered in the oilfield.

Sanjel used SolidWorks Flow Simulation software to help ensure the cement slurry flows smoothly through the unit's piping, which consists of T's, elbows, valves, and other fittings. Any "dead zones" would allow settling of the slurry, creating a plug in the piping and affecting the operation of the unit.

Design engineers used SolidWorks eDrawings® email-enabled design communication software to help various people, from welders to executives, to see, understand, and evaluate the design of the cementing skid. The sheet metal package in SolidWorks allowed designers to provide welders with quick and accurate pipe templates for various copes found at piping joints within minutes. It would have taken them about an hour to generate each one by hand.

“We’d edit a design in real time, refresh the assembly, display the new piping run, and the guys would put it together,” said Sato. “We quickly arrived at the most logical, functional and fabrication-friendly piping run, and we did it fast. Methods like these, and the power of 3D design, let us do this in six months versus two years.”

SolidWorks also helped Sanjel collaborate with suppliers. "The SCM skid utilizes OEM components such as its engines,” he continued. “Having OEM vendors that also use SolidWorks allowed us to drop in their engine/transmission/radiator assembly into our skid layout. This saved us time and provided a more accurate layout that ensured that we could confidently design around OEM components without worrying about fit."

Sanjel relies on authorized SolidWorks reseller Automated Design Systems for ongoing software training, implementation, and support.

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SEAKR Engineering Improves Project Management Power and Government Reporting Capabilities with IFS

8 June 2009

IFS announced that SEAKR Engineering, which develops solid state memory systems and other products for embedded computing in the aerospace and defense industry, is implementing IFS Applications to help it better serve its growing roster of major OEM customers.

SEAKR’s products include solid state memory systems similar to the flash memory used in iPods and other consumer devices – but made rugged enough to capture mission-critical data in the demanding environment of outer space. The company’s products have been used in planetary probes, satellites, orbiting laboratories and space shuttles. Since SEAKR works on government programs in partnership with major aerospace and defense OEMs, government-mandated reporting methods like earned value management (EVM) are important. And since SEAKR develops its technologies for each specific application, but still has some standard parts, it needs an enterprise environment optimized for mixed manufacturing modes, including engineer-to-order, make-to-order, make-to-stock and kitting of complex electronic assemblies.

"SEAKR is committed to doing what it takes to exceed the expectations of our OEM customers, and to prepare for further growth," SEAKR Vice President Eric Anderson said. "Each project that we undertake is dynamic, demanding, and requires excellent ongoing communication between engineering and manufacturing functions. The underlying product design for each project changes frequently as the project evolves. With IFS Applications, the activities of our various departments will be driven directly and seamlessly within the Work Breakdown Structure (WBS) of the project. This will make us more efficient, allow us to serve our customers better and help us to continue our trajectory of growth."

"IFS delivers software solutions to some of the same major aerospace and defense OEMs that SEAKR serves with space avionics electronics," IFS North America President and CEO Cindy Jaudon said. "IFS Applications is not only a leading enterprise software product in the aerospace and defense industry, but is the only product in the industry flexible enough to meet the needs of enterprise-level companies as well as great growth-oriented companies like SEAKR and scale effortlessly with them as they expand. In order to profitably grow, these companies need to be able to run the same sophisticated processes as the industry giants, and we can help them do that."

Aerospace and defense is one of IFS' targeted market segments. IFS Applications includes advanced standard functionality that meets the demanding requirements of defense manufacturers. IFS' fully integrated project tracking and product data management (PDM) capabilities, when combined with other IFS Applications components, make it easier to operate while managing the design, manufacturing, and ongoing spare parts logistics and maintenance support of complex products throughout the product lifecycle. IFS customers within the aerospace and defense industry include the US, British, and Norwegian defense organizations as well as the Eurofighter consortium. Commercial MRO shops and operators include Finnair, Bristow Helicopters, Aero-Dienst GmbH, Hawker Pacific, and Jet Turbine Services. In addition, IFS provides solutions to original equipment manufacturers (OEMs) such as General Dynamics, Lockheed Martin, BAE SYSTEMS, Saab, and GE Transportation.

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Spatial 3D Development Partnership Drives Innovation

9 June 2009

Spatial Corp. provides technology for IMSI®/Design's recent Version 16 release of their flagship product TurboCAD® Professional. IMSI/Design relies on Spatial 3D software components to deliver quality precision modeling tools. The newest TurboCAD release utilizes advances in Spatial's 3D ACIS® Modeler and 3D InterOp components to deliver model manipulation via direct editing, and drafting productivity tools.

Delivering quality, differentiating features while managing development costs and time-to-market is a requirement for technology-leading manufacturing applications. End-users are driving application providers to extend modeling interactions to include more direct, local control over model modifications while ensuring operating success on both native and imported models. Spatial has taken a leading role in delivering advances in 3D model manipulation (direct editing, free-form design) and raising the standard for quality and performance of import and modification of non-native models. Spatial's 3D software components provide the best choice for developing flexible new features.

"Throughout our ten-year partnership, Spatial has consistently delivered the capabilities we need," notes Bob Mayer, IMSI/Design's Chief Operating Officer. "Spatial's understanding of our market enables them to deliver technology advances that make it possible for us to provide productivity enhancement

tools like Quick Pull direct editing and the Drafting Palette, improving the draft-to-detailing process."

TurboCAD Professional continues to expand the use of Spatial 3D software components. ACIS, the modeling foundation of this manufacturing product, provides operators including Booleans, direct editing, model modifiers, advanced surfacing and rendering tools such as PHL V5. Incorporating 3D CAD translation into the solution provides for robust data transfer and integration into the manufacturing process.

"Spatial continues to advance our software components to meet the evolving needs of our development partners and their end-users. By working closely with our partners we are able identify new technology capabilities that offer real value to their customers," says Ray Bagley, Spatial's Director of Product Planning and Management. "These advances are of general applicability to a wide variety of 3D applications for design, manufacturing and analysis. TurboCAD Professional's innovative, rapid adoption of our latest advances for direct editing capabilities proves the value of a Spatial partnership."

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Synopsys IC Compiler with Zroute Technology Achieves Successful Tapeout for Infineon Automotive Microcontroller

9 June 2009

Synopsys, Inc. announced that IC Compiler with Zroute technology drove silicon success for automotive microcontrollers of Infineon Technologies AG, a world leading automotive semiconductor provider. IC Compiler's Zroute provided a near 100 percent redundant via rate, enabling leading-edge device reliability and allowing Infineon to successfully tape out the lead product of its high-performance automotive 32-bit microcontroller platform in an advanced embedded Flash technology. In addition, by deploying a hierarchical design implementation flow together with intelligent Multi Corner Multi Mode (MCMM) optimization across different scenarios, IC Compiler achieved outstanding quality of results, meeting the high performance, area and power targets, specifically of the Infineon TriCore™ 32-bit microcontrollers.

"Being on the leading edge of automotive applications, Infineon is striving to supply intelligent chips that increase the energy efficiency and safety of vehicles while offering optimal quality and reliability," said Hartmut Hiller, senior director, Design Methodology and Implementation at Infineon Technologies. "As single vias are one of the major factors impacting reliability, we are always looking for design implementation tools that deliver the highest redundant via rate possible."

Zroute's architecture takes advantage of best-in-class routing technologies to meet the demands of companies like Infineon that are developing complex chips with high reliability targets to fulfill the ever increasing quality requirements of automotive tier1 and original equipment manufacturers (OEMs) all over the world. Utilizing concurrent design-for-manufacturability (DFM) optimization techniques, including soft rules and via redundancy, Zroute makes an efficient trade-off between manufacturability and the traditional design goals of timing, area, power and signal integrity. In addition, Zroute's native multicore support takes advantage of the latest microprocessor architectures to deliver near-linear scalability of runtimes as the number of cores increase.

"The selection of IC Compiler by Infineon and the recent complex automotive device tapeouts with Zroute are examples of Synopsys' IC Compiler technology driving customer success across the board," said Antun Domic, senior vice president and general manager of Synopsys' Implementation Group. "Synopsys values the relationship with Infineon and is committed to working closely with Infineon to

evolve our product and methodologies based on feedback and requirements from the design teams of their leading-edge automotive applications."

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TSMC Selects Synopsys Galaxy Implementation Platform for Integrated Sign-off Flow

9 June 2009

Synopsys, Inc. announced that TSMC selected Synopsys' Galaxy™ Implementation Platform for their new Integrated Sign-Off Flow. The RTL-to-GDSII design flow deploys the advanced optimization technologies of Synopsys' Design Compiler® synthesis and IC Compiler physical implementation solutions, and the PrimeTime® sign-off and Star-RCXT™ extraction solutions - the industry yardsticks for IC design sign-off. The new flow is now available for 65-nanometer (nm) designs with planned extensions into other process technology nodes.

"Integrated Sign-Off flow leverages technology-leading EDA tools to provide our customers a faster, proven path to TSMC silicon," said ST Juang, senior director of Design Infrastructure Marketing at TSMC. "We based Integrated Sign-Off Flow on the Synopsys IC implementation toolset that we use ourselves for our advanced designs, and now make it available for our customers."

Design companies face the critical challenge of allocating expensive internal resources to validate libraries, EDA tools and design flows for a specific process node. Recognizing the importance and need for production-quality design flows, TSMC and Synopsys are addressing the needs of these mutual customers while achieving high quality of results and fast cycle time. This flow seamlessly integrates proven Synopsys tools to provide mutual customers with an automated solution for implementing their chips in TSMC technologies.

"We are pleased that TSMC uses the Galaxy implementation and analysis tools for their own designs and now for the Integrated Sign-Off Flow the company recently introduced," said Bijan Kiani, vice president of Product Marketing at Synopsys. "With the Galaxy Implementation Platform fully encapsulated in TSMC's Integrated Sign-Off Flow, we are helping mutual customers deploy Synopsys' proven optimization and sign-off technologies, resulting in lower overall design cost, lower power, improved manufacturing and faster chip completion."

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Toro Rosso: STAR-CCM+ Gives You (More Aerodynamic) Wings

8 June 2009

CD-adapco announced that, after extensive evaluation, Italian Formula One Team Scuderia Toro Rosso has chosen STAR-CCM+ as their simulation tool for the aerodynamic design of their racing cars.

Since their Formula One debut in 2006, Scuderia Toro Rosso have proved themselves one of the brightest new teams in Formula One, scoring a maiden victory in the 2008 Italian GP, on the way to securing sixth place overall in the 2008 Constructor’s Championship. One of the principal aims of the team is to discover and nurture new driving talent through their Young Driver Program, the most successful graduate of which is German driver Sebastian Vettel who became the youngest driver ever to win a Grand Prix in his two successful years with the team.

Until the 2009 season, Toro Rosso cars were designed by Red Bull Technology, however a move to

more independence from their sister team facilitated the need for greater on-site CFD capability at the team's Faenza base. After benchmarking a number of different CFD software products, Scuderia Toro Rosso adopted the STAR-CCM+ solution. Ing. Nicolò Petrucci, head of aerodynamics for Scuderia Toro Rosso explains:

"Formula 1 has always been the pinnacle of automotive technological development, throughout the year we are constantly working to squeeze more performance out the car and to do this we need the best engineers and the best tools. Having reviewed the available options, it was obvious that STAR-CCM+ represented the best solution on the market."

"We chose STAR-CCM+, not only because of CD-adapco's pedigree in the automotive sector, but also due to the innovative and advanced nature of the tool. STAR-CCM+'s automated meshing technology really is second to none and the speed at which we could mesh and analyze new designs was a revelation. The software is extremely easy to use with an intuitive user interface, quite a change from when I first saw CFD in F1 in 1989!"

CD-adapco is the leading supplier of Computational Fluid Dynamics software to Formula One. For the 2009 season, almost every car on the Formula One grid is designed using either STAR-CCM+ for aerodynamics and thermal management, or STAR-CD for engine simulation. CD-adapco's director for the automotive industry, Dr. Richard Johns explains:

"Scuderia Toro Rosso have demonstrated the fact that STAR-CCM+ is the aerodynamic code of choice for the Formula One grid. In an industry where speed is king in every sense, STAR-CCM+ uniquely allows teams to significantly reduce analysis turnaround time, through the automatic preparation and meshing of car geometries, without any sacrifice in accuracy. The unique STAR-CCM+ power session license, allows our users access to an unlimited number of processors for modest cost"

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UK Wind Energy Firm quietrevolution Deploys Dassault Systèmes PLM Solutions

8 June 2009

Dassault Systèmes (DS) announced that UK-based wind energy company quiet**revolution** has deployed Dassault Systèmes PLM solutions to enhance design and manufacturing of its wind energy generators.

Having calculated a mathematically correct shape for its aerodynamically-optimized vertical axis rotor blades, quiet**revolution** uses Dassault Systèmes' CATIA to design, engineer and manufacture its wind energy turbines. CATIA helps quiet**revolution** to capitalize on the growing demand for wind energy systems by providing an efficient design, development and production technology platform that allows the company to make the most of its resources.

quiet**revolution** Design Manager Richard Kingsley said, "Product development is at the heart of our work. In the short time that we have been using Dassault Systèmes' CATIA virtual design solution, it has significantly improved our ability to efficiently complete the design-to-manufacture processes of advanced structures." Mr. Kingsley, who has experienced PLM at Lotus Cars, Proton, Ascari and Aston Martin, added, "Dassault Systèmes PLM allows us to digitally design, sign off, investigate tooling feasibility, build products, and communicate 3D designs. CATIA is the industry standard among our supply chain and it allows us to exchange native files with partner companies leading to more efficient production processes."

Mike Crow, director, Dassault Systèmes said, "We are glad that quiet**revolution** is utilizing CATIA

leading-edge virtual design solutions to be at the forefront of the wind energy industry. Using best practices developed in conjunction with leading manufacturers from other industries, wind turbine manufacturers can avoid costly trial and error in the real world and significantly reduce development cycle time while manufacturing stronger products with higher energy outputs by integrating design, testing, and manufacturability analysis in a single environment."

Darren Cairns of Intrinsys, the Dassault Systèmes value added reseller that implemented and supports the solution said, "quietr**evolution** is an example of a cutting-edge company using advanced 3D PLM technology to lead the world in this sector of the wind energy industry. We are proud to make our CATIA expertise available to help quiet**revolution** develop new energy solutions by providing advanced production software and the services that optimize its rewards."

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Variosystems Purchases Valor's Automated DFM Verification Software

May 2009

Valor Computerized Systems, Inc. announced Variosystems Inc.'s purchase of their Trilogy 5000 design-for-manufacturing (DFM) analysis software.

Variosystems, headquartered in Southlake, Texas, purchased the Trilogy 5000 DFM from Dee Claybrook, President of Southwest Systems, Valor's representative in Texas. Valor's DFM (Design for Manufacturing) software brings designers and the manufacturing supply chain together. It rationalizes the requirements of the design engineer and manufacturers. Valor DFM is comprised of more than 700 design checks, covering all stages of the design process.

"Variosystems chose the Valor DFM tool because it is the standard for DFM. The Valor Parts Library (VPL), with its more than 35 million parts, is a key feature that will allow us to be productive immediately. It also provides an independent 3-D shape to validate the PCB design. Valor provides an excellent visual report that can be shared with customers to ensure clear communication as to the problem encountered," said Alfred Langguth, Director of Operations & Development, Variosystems, Inc.

"Valor is pleased to welcome Variosystems as our newest customer. Valor's manufacturing software solutions are increasingly adding value to Tier 3 EMS companies with high end solutions at market driven prices. Valor's software continues to delivers significant competitive advantages to EMS companies both large and small," said Dan Weitzman, President of the Americas.

A unique benefit of the Trilogy solution is the Valor Parts Library (VPL), containing over 35 million commercial electronic component part numbers and their dimensioned package models containing accurate graphical contour, pin contact areas and positions, and dimensional tolerances. The VPL also supports the full virtual "prototyping" of products. This provides for fast off-line simulations to validate physical design characteristics against assembly and test constraints even before a first article or pilot run. With the "as-built" dimensionally accurate package data, Valor users can validate critical manufacturing processes in advance, such as solder-joint formation, test-point accessibility, pick-and-place constraints, rework accessibility, and much more.

The Valor software also features a "sharelist" that allows precise feedback to the design engineer. The sharelist captures selected DFM analysis results and packages them in an open document format for effective engineering collaboration. Combining graphical, text, and numerical data records, the sharelist

also includes user comments and suggestions. Output formats include HTML, XML and formatted ASCII.

Variosystems is among the largest privately owned contract electronic manufacturing companies worldwide. It offers complete turnkey solutions from engineering to systems integration and order fulfillment. With more than 500 employees and state-of-the-art facilities around the world, Variosystems offers customized supply chain solutions, regardless of the size of customer projects.

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Product News

Agilent Technologies Announces Availability of Powerful New TriQuint Process Design Kit That Streamlines MMIC Design Process

8 June 2009

Agilent Technologies Inc. announced the availability of a powerful foundry-certified process design kit (PDK) to support TriQuint Semiconductor's popular TQPED GaSs E/D pHEMT process. Providing the most complete MMIC design flow available using Agilent's Advanced Design System (ADS) platform, the new TQPED PDK completely renovates layout functions, adds many design automation and routing capabilities, and provides a MMIC toolbar personality to help streamline the MMIC design process. The PDK is available now from TriQuint.

One of the PDK's new capabilities is a TriQuint mailDRC function that can be launched automatically with the design embedded in an e-mail message. This capability allows users to obtain DRC results from TriQuint, through their Microsoft® Outlook client, directly from the ADS environment without having to bother with translation steps. In addition, the PDK includes substrate definitions for Agilent's integrated 3-D planar EM simulator, Momentum, to help decrease design cycle time.

"We are excited to provide this upgraded TQPED PDK to use with Agilent's ADS, a trusted MMIC design platform," said Glen Riley, vice president and general manager of TriQuint's Commercial Foundry business unit. "This PDK will make it easier than ever before to design low-noise amplifiers, power amplifiers and other integrated MMIC's using the industry-leading TQPED E/D pHEMT process technology."

"Given the popularity of the TriQuint TQPED process technology with our installed customer base, our continued collaboration with TriQuint is critical to providing future upgraded PDKs for TriQuint processes," said Jim McGillivary, vice president and general manager of Agilent EEsof EDA. "Such upgrades will ensure that ADS users of TriQuint kits have a complete streamlined flow that supports the multiple EM technologies integrated within ADS, like the Momentum tool. Users will also be able to extract X-parameter* models of their TriQuint designs either directly from ADS or through Agilent instrumentation, providing an accurate and complete unified behavioral modeling capability and further simplifying the design process."

ADS offers complete design integration to designers of products such as cellular phones, wireless networks, radar and satellite communications systems, and high-speed digital serial links. ADS is an industry leader in high-frequency design, supporting system and RF design engineers developing all types of RF designs, from simple to the most complex, from RF/microwave modules to integrated MMICs for communications and aerospace/defense applications. Additional information is available at

www.agilent.com/find/eesof-ads.

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Alias 2010 Adds to Autodesk's Growing Portfolio of Mac Design Tools

6 June 2009

Since shipping on April 7, Autodesk Alias Design 2010 and Autodesk SketchBook Pro 2010—part of the Autodesk solution for Digital Prototyping—have drawn accolades from designers and creative professionals within the Mac community. The 2010 releases mark the first time that Alias Design has offered native support for the Mac OS X operating system.

"Designers from all over the world have given us enthusiastic feedback on the Mac version of Alias Design and SketchBook Pro," said Samir Hanna, vice president, Digital Factory and Industrial Design, at Autodesk. "We look forward to providing our growing community of Mac users with increased ability to use Autodesk Digital Prototyping software to improve time to market and increase competitive advantage."

"With Alias Design now available for Mac OS X, the best designer software now runs on the best designed hardware," said Joshua Maruska of Teague Design, a pioneer in industrial design.

"SketchBook Pro completely replicates the feel of paper for me and also fits in perfectly with my Mac environment," said Andrew Meehan of Viacelli, creator of iconic technical illustrations. "I used to scan sketches, clean them up in Photoshop, then save them as jpegs and send them off. Now I just use SketchBook Pro as my integrated ideation center."

Alias Design provides consumer product designers with control over the entire design process—from ideation to the final surfaces that are passed to engineering. Designers can develop and communicate product design concepts using sketches, illustrations, photorealistic renderings and animations. The association between Alias and Autodesk Inventor allows users to bring ideas to reality, going beyond 3D to effectively design, visualize and simulate with Digital Prototyping.

Alias Design joins the increasing number of Autodesk 2D and 3D software tools available for Mac OS X, including SketchBook Pro, Autodesk Maya, Autodesk Mudbox, Autodesk Toxik, Autodesk ImageModeler and Autodesk Stitcher. SketchBook Pro equips users with the tools they need to move easily from pen and paper to a digital environment with painting and drawing software that provides best-in-class sketching tools for professional designers and artists from all industries.

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Apache's Power and Noise Integrity Solutions Certified to Support TSMC's Unified Interconnect Modeling Format

10 June 2009

Apache Design Solutions announced that the Company's RedHawk has been certified to support TSMC's iRCX 65nm and 40nm technologies. In addition, RedHawk is included in the TSMC Integrated Sign-off Flow, a pre-packaged and pre-qualified design flow for 65nm process technology.

RedHawk's integrated parasitic extraction, library characterization, and dynamic simulation perform full-chip power, noise, and reliability analyses. The iRCX format unifies the delivery of process data and

ensures its integrity across qualified resistance/capacitance (RC) extraction, power / electromigration (EM) analysis, and electromagnetic (EMI) tools. With the unified iRCX format, TSMC's customers can reduce tool evaluation efforts and improve design accuracy for first time silicon success.

RedHawk was selected as the power integrity (IR-drop) and EM analysis solution for the Integrated Sign-off Flow, a fully-packaged turnkey design flow that tightly integrates pre-qualified technology files, library, IP, and EDA tools, along with production-proven automated script for quick setup and sign-off. This enables TSMC foundry customers to utilize RedHawk within its extensively tested and qualified flow.

"The iRCX Qualification Program enables designers to effectively select pre-qualified EDA tools that match their design needs and ease the adoption of TSMC advanced process technologies," said Tom Quan, deputy director, Design Service Marketing at TSMC. "Our collaboration with EDA vendors such as Apache allows our mutual customers to reach faster time-to-market while reducing design risks."

"Apache and TSMC have had a long standing collaboration to bring the best-in-class power and noise integrity solutions to the market, starting with Reference Flow 5.0," said Dian Yang, senior vice president of Apache. "iRCX certification of RedHawk and its inclusion in Integrated Sign-off Flow further strengthens our cooperation and enables us to deliver a predictable and accurate sign-off solution for our customers."

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Cadence QRC First Full Chip Extractor to be Qualified for TSMC's Interoperable (iRCX) Format for 65 and 40 Nanometer Design

9 June 2009

Cadence Design Systems, Inc. announced that the Cadence QRC extraction signoff technology has adopted a new interoperable data format, iRCX, developed by Taiwan Semiconductor Manufacturing Company (TSMC). This iRCX file includes comprehensive interconnect modeling data, enabling Cadence customers to perform accurate parasitic extraction signoff.

The availability of consistent manufacturing data to accurately model the demands of millions of transistors is essential to avoid catastrophic failures caused by an electrical short or an open circuit. The Cadence signoff analysis flow directly processes the iRCX database for parasitic extraction and electromigration (EM) verification rules that are used with QRC Extraction.

"iRCX plays the key role in enabling interconnect modeling related EDA applications, including parasitic extraction of Cadence QRC itself and electromigration analysis based on QRC's extraction results," said Tom Quan, deputy director of design service marketing at TSMC. "The new unified data format is part of TSMC Open Innovation Platform that provides designers the ability to select qualified EDA tools to match their design needs and ensure design accuracy for first time silicon success."

"By delivering foundry data directly to the scalable Cadence QRC Extraction software, the new TSMC iRCX process file allows our customers to quickly achieve consistent silicon-accurate parasitic signoff and EM analysis for their designs in a rapid cycle time," said Dr. Rachid Salik, vice president of research and development at Cadence Design Systems, Inc. "We continue to strengthen our relationship with TSMC and provide value to our mutual customers."

In addition to iRCX support, Cadence QRC reduces extraction turnaround time with its parallel processing technology. Designers benefit from improved productivity, consistent data, and silicon-

accurate flows necessary to take designs to production.

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Cadence Unveils Integrated Chip Planning and Implementation Solution to Improve Predictability and Reduce Risk of IC Designs

8 June 2009

Cadence Design Systems, Inc. unveiled a breakthrough solution that provides design and implementation engineers with superior visibility and predictability of chip performance, area, power consumption, cost, and time to market across the full range of design activities, including system-level design and IP selection through final implementation and signoff. This unique and automated approach to semiconductor design has been achieved through the integration of Cadence® InCyte Chip Estimator and the Cadence Encounter® Digital Implementation (EDI) System technologies. The combination of these technologies increases the predictability of key metrics from design specification through final implementation while reducing overall IC project risk.

“As development costs of complex SoCs continue to skyrocket, manufacturers in all sectors are looking for increased visibility into their design processes,” said Richard Wawrzyniak, senior ASIC/SoC analyst at Semico Research Corporation. “By integrating capabilities from these two products, Cadence addresses a growing industry need by offering a solution that provides a unique and timely window into the development of a SoC.”

Decisions made during the architectural planning stages of the design cycle largely determine the chip’s resulting size, power consumption, performance, and cost. During these early stages design teams can realize the biggest benefits by considering and quantifying a variety of architectural and IP options prior to final design, implementation and signoff. Traditionally, however, semiconductor designers have been forced to use a manual or disconnected approach to make estimations and architectural choices without the benefit of flexibility, automation, accurate analysis, or tight links to implementation tools. This new Cadence solution eliminates guesswork and provides a new data-driven and holistic approach to the optimization of IP selection and integration through architecture, design, implementation and signoff.

Using the new Cadence solution, designers can estimate die size, power and cost, including real-time IP and manufacturing process what-if analysis to ease IP selection and determine design architecture and feasibility. As a milestone in Cadence’s open, multi-vendor approach to IP, the solution leverages the vast ecosystem of IP at the ChipEstimate.com portal where over 200 IP suppliers and foundries contribute data to enable this accurate what-if analysis capability. Once system-level trade-offs and architecture are complete, designers can dynamically progress to the final implementation phase, leveraging estimates as a seed and driving to faster convergence. Cadence’s EDI System completes the implementation and signoff of the design while monitoring and tracking aspects of block and full-chip progress, and also providing in-situ updates to actual die-size, power consumption, performance and cost with full transparency to all stakeholders. As optimizations in EDI System improve yield, size or power, users can immediately quantify those benefits in terms of the fully packaged chip cost.

“This new solution offers a unique new advantage to semiconductor design teams where all parties involved from system-level architects to chip implementation engineers can now make more informed and precise tradeoffs, including technical and economic metrics,” said Charlie Huang, senior vice president and chief strategy officer at Cadence. “It breaks down the barriers between both domains for a more transparent and predictive semiconductor development process. This cost-aware design philosophy

is a new paradigm for design teams and addresses the critical market need of cost and risk reduction in IC designs."

The new design solution will be demonstrated at the Design Automation Conference in San Francisco this July and be available later this year.

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CGTech Announces Enhanced PRO/E-to-VERICUT Interface

9 June 2009

CGTech, the developer of VERICUT® software, announced an enhanced PRO/E-to-VERICUT user interface at the PTC-User conference in Orlando, Florida June 7-10.

"The enhanced Pro/E-to-VERICUT Interface gives Pro/E users an effective way to access advanced features in VERICUT from within the CAD/CAM environment," said CGTech Product Marketing Manager Bill Hasenjaeger. "This new interface offers users of VERICUT's G-Code and Machine Simulation capabilities any easy way to configure simulations for complex machines and machining processes."

The interface launches VERICUT from within Pro/Engineer's NC menus and can be run interactively or in batch mode. Tool path motions for the selected operation or NC sequence; tool descriptions; and reference, workpiece and fixture models from the current manufacturing session are automatically transferred to VERICUT. The VERICUT session runs as an external process, enabling you to work in Pro/Engineer while VERICUT verifies the NC program. The new enhanced interface will also add support for G-code processing, machine simulation, and multiple setups.

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Cimatron Announces Release of CimatronE 9.0

11 June 2009

Cimatron Limited announced that it has officially released version 9.0 of CimatronE.

According to customers' reports, CimatronE 9.0, complete with brand new features and capabilities, is the most productive version of the software to date, cutting down significantly on design, programming and machining times.

"CimatronE 9.0 has vastly improved current functions, and added many new functions which help get projects through design and fabrication faster and more efficiently." said Jose Barreto, Die Design Engineer at Weiss-Aug, USA.

"CimatronE 9.0 not only increases our accuracy and speed, it also makes us more confident than ever that the finished product will be right to the numbers as well as giving us a great finish." stated Tom Neeb, CAD/CAM Department Manager at Apollo Tool Co., USA.

There are productivity enhancements in tool design, NC for tooling and 5-Axis solutions, covering the whole spectrum from quoting to delivery. CimatronE's most productive attribute remains it's integrated CAD/CAM; design and NC programming take place in the same environment eliminating the need for data translation, preventing errors and saving time wasted transferring files from one application to another.

CimatronE 9.0 includes major enhancements to mold and die designers, including new capabilities for transfer die makers, and more automation for tool design. Automatic Features are in line with CimatronE's winning formula of Flexible Automation, prioritizing the user's ability to control and override all automatic functions. The CimatronE Electrode solution now includes a new CMM application for defining measuring points and probe paths.

Programming and Machining times have been significantly shortened with new NC for tooling capabilities. These capabilities have been developed not only to speed things up but also to ensure safe machining with no gouges and collisions, and support polish-free surface quality. New NC capabilities include significant improvements to the drilling application, with added safety measures and increased efficiency.

Additionally, new machining strategies are available for HSM and 5-Axis Milling, providing more benefits to the medical and other industries performing high precision jobs. A new impeller cutting application speeds up production for aerospace users. Cimatron 9.0 includes a new, more powerful and more accurate machine simulator with improved interaction and functionality.

"This is the fastest, most advanced version of CimatronE we have ever released," said Danny Haran, Cimatron's CEO. "At a point in time when toolmakers and manufacturers are thirsting for ways to cut costs and speed up all their processes, we are providing a serious upgrade to our software which will dramatically increase our customers' productivity."

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CONTACT Software Expands PDM/PLM Portfolio by Ad Hoc Workflows

3 June 2009

CONTACT Software GmbH further expands its CIM DATABASE PDM/PLM platform portfolio within the process support segment by its new Ad Hoc Workflow module. It bridges the gap between hierarchically planned, system-based workflows and spontaneously initialised procedures that so far were solved via email or other means. Amongst others, the new component features easy-to-use handling for occasional users, direct access to parts and documents within the PDM/PLM data-hub, an integrated task management, encompassing accounting and archiving services and an online overview of work-in-progress.

In contrast to object lifecycle requirements, where the object status – such as the interaction between manufacturing, testing, release and de-activation of a part is depicted - a workflow orchestrates interdependent task. Due to its project nature, unforeseeable intermediate results, and a high degree of parallelism, product design however, demands further reaching requirements for an effective and efficient process support. Unplanned changes and modifications are common currency in the course of a project; pre-planned procedures are not appropriate in such instances. Here, developers need more flexibility.

CONTACT’s new component now links the virtue of validated, system-supported workflows with the advantage of utmost flexibility, supplemented by integral model services. It allows users and work groups to determine replicable procedures according to their specific demands and to save them in templates – way beyond centralized, standard workflows, designed by key-users or admin staff. A major requirement for was usability. Even the occasional user should be able to initiate a workflow as fast and easy as email. In consequence, the look-and-feel is aligned to email dialogues with address lists, attachments and (optional) message texts. The address list is depicted per default as a set of parallel

tasks and may – upon demand – be rearranged into parallel and sequential steps via a graphically interactive drag-and-drop.

Ad Hoc Workflow is integrated with the CIM DATABASE modules Managed Processes, Task Management and Object Lifecycle. E.g., it is possible to automatically release parts and documents upon successful termination of an Ad Hoc Workflow. Ad Hoc Workflows are available with the upcoming version 2.9.8 for all CIM DATABASE server platforms.

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ESI Group and École Polytechnique de Montréal Collaborate to Assist Further Development of PAM-RTM

8 June 2009

ESI Group announced the release of several innovations in the field of numerical simulation of Liquid Composite Molding (LCM) and manufacturing process analysis, thanks to its partnership with École Polytechnique de Montréal. A long-term agreement was signed with École Polytechnique de Montréal in 2007 aimed at developing, validating and industrializing PAM-RTM, ESI's simulation-based design composite solution for Resin Transfer Molding (RTM) and resin infusion processes.

The following innovations, developed by the Chair on Composites of High Performance (CCHP, http://cchp.meca.polymtl.ca) at École Polytechnique de Montréal, are progressively being integrated into the existing PAM-RTM software:

- Optimization of the void distribution in an RTM composite part through injection flow rate (VoidOpt module);
- Rapid RTM flow simulation (OneShot module);
- Conditional opening of injection ports and vents during resin injection (Trigger Manager module);
- Incorporation of simultaneous filling and curing simulations including the overfilling phase and the evacuation of excess resin at the end of the filling cycle;
- Automatic definition and optimization for the location of multiple injection ports in a RTM mold based on genetic algorithms (GenPorts module);
- Articulated injection-compression (Articulated Compression RTM or ACRTM process).

While PAM-RTM version 2008 already includes the void optimization module, the upcoming version 2009 will feature the quick One-Shot simulation module that can be used upfront to accelerate the process development and find the optimal positions of injection ports. Features to speed up the work of process engineers and allow conditional mold filling simulations for multiple injection ports, namely the interaction of filling and curing and the Trigger Manager, will also be included in version 2009.

The partnership between ESI Group and École Polytechnique de Montréal has brought about the acceleration and amplification of PAM-RTM research and development.

"Fifteen years ago, while developing RTMFLOT, the original version of PAM-RTM, Pr. Trochu and his team introduced a technological disruption by bringing numerical simulation to R&D developers in the now popular field of Liquid Composite Molding (LCM). The integration of those recent software

improvements, from the CCHP into the industrial environment of PAM-RTM, empowers ESI's composite solution for process engineers to reduce development time and costs, thus making composite solutions more affordable," declares Dr. Patrick de Luca, ESI Group's Composites Solution Manager. "Moreover, beyond enabling the process engineers to take decisions and deliver, the improved manufacturing simulation will lead to improved performance simulations because of a better physical description of the final part in terms of micro/macro voids description."

In addition to providing material characterization services for LCM to the composite industry, École Polytechnique de Montréal has developed a series of software tools for permeability measurements, resin kinetics modeling, composite quality control, real-time process control, in-mold passive monitoring, and mold expert start-up assistance that can be made available on request.

Pr. François Trochu, Chairholder of the CCHP, shares his commitment to providing support to PAM-RTM users: "We have a strong track record working with major aerospace and automotive companies in the LCM field. Our characterization tools provide users of PAM-RTM with real data for accurate process simulation. Our expert and process control software modules were devised to assist users in composite production and quality control. Our new industrial scale testing laboratory allows users to manufacture real composite parts to validate their numerical LCM solutions and our new patent pending flexible injection technology provides a low cost and 35 times faster alternative to RTM to produce high performance composites of autoclave quality."

For more information on ESI's Composites Solution:

http://www.esi-group.com/products/composites-plastics

For further information on the Chair on Composites of High Performance (CCHP):

http://cchp.meca.polymtl.ca

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ESI Announces the Release of ProCAST and QuikCAST- Version 2009

12 June 2009

ESI Group announced the release of its suite of simulation solutions dedicated to the foundry industry ProCAST 2009 and QuikCAST 2009.

Towards an integrated environment

Version 2009 of ESI's foundry portfolio is a first step towards complete integration into a single environment: ProCAST 2009 and QuikCAST 2009 results are now shown in a common viewer, Visual-Cast.

Visual-Cast is a complete, productive and innovative post processing environment for foundry applications. It represents the next generation of state-of-the-art plotting and animation control solutions. The new viewer Visual-Cast boosts the productivity of foundry engineers by performing automated tasks and generating customized reports within a multiple window environment. It allows for an easy and fast interpretation of graphical results using foundry criteria and animation control.

The benefits for the user of this new common environment are an all-in-one framework speeding up data exchange and resulting in better productivity and rendering.

ProCAST 2009

ProCAST is an advanced and complete tool which is the result of more than 20 years of collaboration with major industrial partners and academic institutions all over the world. The ProCAST solution offers an extensive suite of modules and foundry tools to meet the most challenging industrial requirements. The software, based on powerful Finite Element technology, also enables the prediction of deformations and residual stresses and can address more specific processes like semi-solid, core-blowing, centrifugal, lost foam and continuous casting.

ProCAST 2009 hosts a variety of new features and improvements. In addition to building the adequate bridges between casting and the major structural analysis software, version 2009 is focused on microstructural prediction:

• The formation of microstructures associated with solid state phase transformations during cooling or during heat treatment can now be simulated using models based upon Time-Temperature-Transformation or Continuous Cooling-Transformation diagrams.

• For a stress calculation, ProCAST allows now to define mechanical properties which are not only temperature dependant, but also microstructure and/or defects dependant.

ProCAST 2009 is also entirely available with a scripting language. This method is very convenient for automatic repetitive set-up, and Visual-Environment modules such as Visual-Process Executive for process customization and automation or Visual-OPT for optimization.

QuikCAST 2009

QuikCAST is an efficient solution for complete process evaluation. The tool focuses on the basics of any casting process: filling, solidification and porosity prediction including core blowing and semi-solid modeling. QuikCAST validated technology is based on Finite Difference solvers with efficient self-correction features which yields in realistic results with high mesh independence. QuikCAST has proven to be an indispensable tool in foundries to validate decisions during prototyping, to improve yields, and to reduce manufacturing costs.

QuikCAST 2009 has undergone numerous improvements in product functionalities and also contains new features which reduce turnaround time. In addition to the new post-processing capabilities, other main improvements were achieved: acceleration of automatic grid generation, new graphical tools to monitor calculations, an improved porosity model, and optimized solver performance based on recent hardware evolution.

“In the current economic environment, product excellence, innovation and shorter time-to-market are the mottos of any successful foundry,” said Marco Aloe, Casting Product Manager. “With the 2009 releases, we achieved the first step in providing a complete and best-in-class solution in a common environment to meet the wide casting market requirements. In addition, we have made improvements in numerical modeling such as predicting defects at a microstructure level and providing integrated value chains to predict realistic testing variation effects on product performance,” he added.

For further information, please visit: http://www.esi-group.com/casting

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Graphisoft EcoDesigner Starts to Ship Today

5 June 2009

Graphisoft, a global leader in Virtual Building™ solutions, announced that Graphisoft EcoDesigner™, a

building energy evaluation tool for ArchiCAD 12 starts to ship today.

Graphisoft EcoDesigner is an integrated energy evaluation tool for architects. EcoDesigner enables architects to control the energy consumption of their buildings, and sets new standards in sustainable design, making ArchiCAD a leading software solution for contemporary architectural demands. With EcoDesigner, architects will have access to much needed energy information concerning their project in the early design phase, as opposed to relying on outside professionals to analyze the buildings when the design is well advanced and decisions are irreversible.

“Graphisoft EcoDesigner has generated great interest among architects at the 2009 AIA convention in San Francisco and continuously thereafter,” said Akos Pfemeter, Director of Graphisoft Global Marketing. “Designers welcome this integrated ‘one-click’ energy evaluation solution that helps them make informed design decisions even at early design phases.”

The English version (for INT, US, AUS, NZE, SWE, DEN and NOR versions of ArchiCAD) and the German version (for GER, CHE and AUT versions of ArchiCAD) ship immediately; further language versions will ship in the coming weeks. For more detailed information about the Graphisoft EcoDesigner product, please visit its product website.

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Improve Design Reviews by Embedding Laser Images in AVEVA Review and SmartPlant Review

8 June 2009

Quantapoint -- provider of laser scanning technology and services that helps companies achieve Zero-Defect Projects™ -- announced that photo-realistic Laser Images™ may be embedded directly in AVEVA Review and SmartPlant Review using QuantaCAD 9.0. QuantaCAD enables 3D laser scan data to be accessed directly as photo-realistic Laser Images™ and high-definition Quantapoint Laser Models™ (not fuzzy "point clouds") within design software such as Autodesk AutoCAD, AVEVA PDMS, Bentley AutoPlant, Bentley Microstation V8XM, Intergraph PDS, Intergraph SmartPlant and more.

Using QuantaCAD, Laser Images may be embedded directly in review package view window, not a separate window or "bubble view." This enables proposed designs to be viewed more intuitively, quickly and easily than using difficult-to-visualize "point clouds," hard-to-understand 2D drawings or idealized 3D CAD models. Major benefits include:

-- **Improved Understanding**: Operability and maintainability of proposed design is more easily understood by cross-departmental teams before construction.

-- **Faster Design Reviews**: A picture of the existing facility with the proposed design is worth a thousand words, which significantly shortens design reviews.

-- **Minimize Remodeling**: Laser Images provide a more complete facility view, including details like small-bore piping and cable trays, minimizing the need to remodel.

-- **Access Laser Models**: Laser Models integrate data from all Laser Images, providing detailed, high-definition solid "models" of facility when 3D view is desired.

-- **Eliminate Clashes**: Visually identify clashes with proposed designs in Laser Images or automatically clash designs against Laser Models.

By using QuantaCAD to put reality on the desktop and in design software, clients have typically been able to reduce remodeling time by 85% (by using Laser Models instead of CAD remodeling or as a basis to remodel), decrease design time by 60% (by accessing more complete, clear Laser Models and Laser Images for design) and cut rework from design clashes by 85% (by correcting clashes between Laser Models and new CAD design). If you are interested in finding out more about embedding Laser Images in AVEVA Review and/or SmartPlant Review using QuantaCAD 9.0 or would like a demonstration, visit www.quantapoint.com/qp/contact or e-mail info@quantapoint.com.

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Intergraph® and OTI to Offer Total Power Electrical Engineering Solution

11 June 2009

Intergraph® and Operation Technology, Inc. (OTI) are now offering a total power engineering solution for the design, analysis and automation of electrical power systems combined with functional and physical aspects of construction, operation and maintenance for the entire plant life cycle.

Using Intergraph's SmartPlant® Enterprise's electrical solution and OTI's ETAP power system analysis and design platform, the companies' total power solution enables engineering, procurement and construction (EPC) firms and owner operators to increase design engineering quality and reliability for oil and gas, petrochemical, mining, shipbuilding, offshore, and other industrial plants. This solution is the result of an alliance formed between the two companies in May 2008.

SmartPlant Electrical addresses the electrical power distribution network needs of the entire life cycle of the plant, from concept to detailed design through operations and maintenance, including start-up, continuous operation, emergencies and shutdowns. ETAP is a comprehensive analysis platform for the design, simulation, operation, control, optimization and automation of generation, transmission, distribution and industrial power systems.

Through two-way integration, data are harmonized across the two platforms to eliminate data redundancy while increasing efficiency and accuracy. The enhanced integration architecture allows for automatic synchronization of data and allows customers to combine information sources for a comprehensive view of system design and analysis.

"Our evolutionary approach to provide open and modular data integration architecture provides a tremendous value to our customers," said Shervin Shokooh, chief operating officer of OTI. "With the unmatched speed, precision and reliability of ETAP Enterprise, combined with the SmartPlant Enterprise's complete plant life cycle solution, our customers can better manage complex interdependencies across the full engineering design, analysis, operation, maintenance and planning phases of the system."

Patrick Holcomb, executive vice president of Intergraph Process, Power & Marine, said, "By

complementing SmartPlant Enterprise's robust electrical, design and data management capabilities, EPCs and owner operators now can gain added flexibility, higher quality and greater reliability in developing their electrical designs. This new joint solution demonstrates our commitment to openness by enabling open integration with other systems, and will enable us to continue to further increase productivity and accelerate project schedules for our customers."

About Operation Technology, Inc.

Operation Technology, Inc. is the designer and developer of ETAP, the most comprehensive analysis platform for electrical power systems worldwide. With more than 50,000 licenses in over 100 countries, ETAP is used in all stages of the power process, from power generation, to transmission and distribution, to utilization. ETAP is used at 7 of the 10 largest U.S. petroleum refining companies, 8 of the 10 largest U.S. engineering construction firms, 18 of the 20 Top Design Firms, 57 of the 64 U.S. nuclear generation plants and all of the 10 largest U.S. utilities companies. For more information, visit http://www.etap.com.

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Just Released Ideate Explorer For Revit 2010 Now Available With Free Trial

8 June 2009

Ideate Inc., a leading provider of training, support, custom services, hardware, proprietary software and Autodesk software for the building, construction, infrastructure, GIS and multimedia industries, announced the release of Ideate Explorer for Revit 2010, a powerful Ideate-developed tool that gives Revit users the ability to search, filter and tie up the inter-relationships between more than 10,000 building elements in a Revit building information model (BIM).

Ideate Explorer empowers users to explore the Revit BIM model and audit Revit projects to maintain office standards. Users can search, quantify and view individual building elements by category, family, type, level and room. Users can also examine and change the current selection, inspect the current view or project, build complex selections from scratch and zoom to individual building elements.

Ideate Explorer employs an intuitive interface familiar to anyone who has searched the web or explored their hard drive. Text searches and hierarchical views enable users to find building elements hidden deep within the Revit model. Search results can be copied to Microsoft® Excel® and Word® to generate reports and create presentation materials.

New with Ideate Explorer for Revit 2010 is compatibility with Revit 2010 that includes the ribbon-style user interface.

Ideate Explorer 2010 is compatible with all versions of Autodesk Revit 2010 including 32-bit and 64-bit versions of Revit Architecture 2010, Revit Structure 2010, and Revit® MEP 2010. As a gesture of support for the AEC community in these challenging economic times, a free 30-day trial offer is available through http://www.ideateexplorer.com/trial.php and the product is available at the reduced price of $75.00. Current Ideate Subscription or Premium Support customers are eligible to receive a licensed copy of Ideate Explorer 2010 at no additional charge.

For more complete details, visit http://www.ideateexplorer.com

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Knovel Introduces Knovel Math for PTC® Mathcad®

8 June 2009

Knovel an online resource that helps engineers find reliable technical information faster, announced the immediate availability of Knovel Math. For Mathcad users, Knovel Math provides fully documented and validated Mathcad worksheets of engineering calculations from trusted reference works, reducing the time it takes to find, solve and document equations.

Available as a web-based service, Knovel Math delivers engineering reference content directly into the Mathcad work environment. Users then enter their own custom values into the worksheet to calculate the solution to the problem faced, without needing to invest the hours normally required to generate the equations themselves.

Using Knovel Math, engineers benefit from powerful search tools and full-text reference content from reliable engineering information sources. This allows for quick access to calculations and provides the background information to help engineers select the right equations with confidence.

Knovel Math supplies engineers with validated Mathcad worksheets, eliminating inefficiencies from re-creation and quality assuring such calculations. Knovel Math is compatible with Mathcad 14 and designed to complement future Mathcad releases.

Other key features include:

- Storage of worksheets and findings for audit trail reference;
- Expanded cases and examples to show full working ability; and,
- Support for U.S. customary and metric units to facilitate global scalability.

“With Knovel Math, Mathcad users get access to validated Mathcad worksheets of engineering calculations from trusted reference sources, which means that users can save time and reduce risk as they develop the calculations they need in their work.” said Michael Campbell, senior vice president, product management, PTC.

“The introduction of Knovel Math offers engineers the capability to create and catalog engineering calculations directly from trusted engineering reference handbooks,” said Chris Forbes, Knovel president and CEO. “This is another example of how Knovel enhances the value of reliable reference information and enables engineers to integrate that information into their workflow – thus improving the speed and quality of their work.”

Visit Knovel at Booth 525 in the exhibit hall at the PTC/User World Event 2009, Rosen Shingle Creek Resort Orlando, Florida June 7-10, 2009.

About Knovel

Knovel is an online resource that helps engineers find reliable technical information faster. Knovel’s reliable content, optimized search and interactive tools, help engineers solve problems faster by providing answers at the point of need, in turn helping organizations increase the productivity of their engineering staff. Knovel’s thousands of customers worldwide include 75 of the Fortune 500 companies and more than 300 leading universities. Founded in 2000, Knovel is a private company headquartered in New York City.

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Lattice Technology Offers Free Trial Of Automated Design Review Software Tools

8 June 2009

Lattice Technology® announced that it is offering free trials of its XVL Studio Pro software.

XVL Studio Pro is the company's product for turning 3D design data into 3D manufacturing data. This application is the main XVL authoring tool for performing mathematically correct interference and clearance checks on 3D assembly data, manipulating parts lists, creating process designs, delivering 3D work and assembly instructions and illustrations direct from 3D design data.

Lattice Technology is making its automated Design Review tools available for designers and engineers to try out the software for design review activities. Sample data and tutorials also make it easy to discover how automated Design Review can change the way design-to-manufacture processes progress.

"It is a well known concept that errors found after design has completed cost 10 times more if located during production engineering, and 100 times more if discovered during manufacturing," said Dr Hiroshi Toriya, CEO of Lattice Technology and author of the new book, '*Improving Lean Manufacturing Through 3D Data'* now available from Lattice Technology. "XVL Studio Pro allows almost all the design errors to be found far earlier, so they can be quickly resolved. This reduces cost, time and frustration across the entire enterprise."

"Our customers indicate that automated Design Review using XVL Studio Pro delivers a leap forward in productivity, not just small steps," said Bill Barnes, GM. Lattice Technology. "Customer metrics show that automated Design Review identifies more than double the issues caused by interference and clearance problems, compared to visual review of CAD data, and that they have been able to reduce Design Review time by at least two-thirds. This kind of change is key to better, faster release of products of all kinds."

XVL Studio Pro is available after a quick registration, and both sample and tutorial data is available to allow users to learn how automated Design Review works. New white papers and presentations describing the process are also available free of charge.

Find out more at: http://www.lattice3d.com/solutions/design_review_offer.html

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Lectra's New CLS Auto Leather Cutter Provides a Unique and Comprehensive Answer to Challenges Facing Automotive Manufacturers

10 June 2009

Lectra announced the launch of the new CLS Auto leather cutter, designed to support automotive manufacturers in the optimization of their industrial processes.

The automotive market is among those most severely affected by the current economic crisis. It is currently going through a period of profound change: it is becoming more and more important for companies to deploy flexible production models adapted to shorter runs, and these require solutions specific to each material—textile, leather and airbag fabric. For leather (automobile seats and interiors), CLS Auto provides the perfect way to overcome new challenges related to productivity, competitiveness and flexibility by offering a cutting process that is unique on the market. Able to reduce production costs through just-in-time operation, that process generates significant material savings and accelerates the time-to-market of new models while maintaining flawless quality.

A unique non-stop production process

CLS Auto operates non-stop on a conveyor, managing every stage of the production process: loading of pre-marked hides, recognition of hide flaws by scanner, automatic contour detection, calculation of the actual hide surface, automatic nesting of pattern pieces taking flawed zones into account, cutting, and sorting of pieces for offloading.

CLS Auto stands out from the competition thanks to its non-stop production process that eliminates waiting time between the different hide processing stages. The time needed for manual intervention such as loading hides and offloading cut pieces is kept under total control, guaranteeing optimal productivity.

Maximum leather savings achieved through a combination of three integrated tools

HideScan recognition software controls a very high resolution scanner which automatically identifies hide flaws and contours. AutoNest software then automatically nests pattern pieces, ensuring material savings of 5% to 10% compared to die-cutting systems. Finally, Offload (Lectra's offloading assistance software), which guides operators offloading combinations of several cut orders, generates additional material savings of 2% to 5%.

CLS Auto: a combination of cut quality and ease of use

In addition to its optimized production process, the CLS Auto's level of cutting quality has also been carefully thought out in order to achieve the best combination of productivity, cutting speed and finished product quality. Through the automation of certain steps (scanner identification of flaws on pre-marked hides, automatic nesting and cutting), CLS Auto is designed to be simple and easy to use—qualities highly valued by operators, who are thus able to concentrate on loading hides and offloading pieces. Finally, workstations have been made more user-friendly, operator comfort and safety have been enhanced, and the physical effort and movement required of users are kept to a minimum.

With CLS Auto, automotive manufacturers are now able to make annual savings that run into hundreds of thousands of euros. Savings can be generated through reduced purchasing and tool costs, but also through substantially lower working capital requirements and operating costs due to the deployment of just-in-time production models. In addition, reductions in electricity consumption and the elimination of the need for plastic film to hold hides in place also create savings.

The value of a leather cutting system like the CLS Auto, with its low operating costs and ability to generate such large material savings is obvious. Zenda, a German company that specializes in cutting high-quality leather for the automotive market, has certainly felt the benefits of the solution. "We chose Lectra because the company offers an integrated solution for the whole process, which is really flexible and simple to use," said Ulrich Sandmeyer, Product Engineering Manager for Zenda Waldfischbach. "Since we installed the CLS Auto automatic leather cutting solution, our productivity has improved by around 5 to 8%. In addition, Lectra experts trained our staff to use the solution effectively in less than two weeks." Zenda is one of Lectra's first customers to integrate CLS Auto into its production environment, replacing two traditional presses.

"CLS Auto is the perfect solution in the current macroeconomic climate, where it is more important than ever for companies to implement value-added technologies and solutions that enable them to boost their competitiveness and sustain their sales strategy," said Daniel Harari, Lectra CEO.

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LEDAS Announces Beta Release of Driving Dimensions Plugin for Rhino

9 June 2009

LEDAS Ltd. announced the beta release of its new plugin Driving Dimensions 0.1 for Rhino 3D. With this plugin, Rhino users get a tool for bottom-up assembly design and kinematics simulation with assembly constraints compatible with the capabilities of mainstream MCAD software packages.

With Driving Dimensions 0.1, Rhino users can position their 3D parts with respect to each other by specifying assembly constraints (fixation, concentricity, coincidence, parallelism, perpendicularity, or tangency) and driving dimensions (distance and angle) between their faces and edges. Driving Dimensions plugin automatically satisfies all constraints and dimensions making a consistent assembly from existing parts. An assembled mechanism can then be animated by varying a parameter of one of its driving dimensions. A constraint manager tool allows easy navigation over all assembly constraints and driving dimensions imposed on geometric elements of a designed model.

"We are happy to share our many-years industrial experience in development of variational modeling tools with Rhino users," said David Levin, the founder and CEO of LEDAS Ltd. "Our Driving Dimensions plugin for Google SketchUp has been extremely successful - more than 9,000 users downloaded it in 7 months. We hope for even greater reaction from Rhino users."

"Being a powerful 3D free-form modeling software package, Rhinoceros 3D by McNeel and Associates still lacks parametric modeling features," explained Dmitry Ushakov, Director of Product Management, LEDAS Ltd. "Driving Dimensions 0.1 for Rhino is only the first step to our global objective that is to equip Rhino users with a powerful technology for direct geometry editing while preserving design intent expressed as implicit and explicit constraints."

"We helped LEDAS to develop their first parametric plugin for Rhino," added Bob McNeel, the founder and the President of Robert McNeel & Associates. "There is a big interest in dimension driven blocks/parts/components in Rhino."

A free beta is available for download at http://www.DrivingDimensions.com. Driving Dimensions 0.1 for Rhinoceros is compatible with Rhino 4.0 and above and can be run on 32-bit Windows XP and Vista. A detailed on-line help, text and video tutorials, and a set of examples are provided for the users of Driving Dimensions plugin for Rhino 3D.

About Driving Dimensions

Driving Dimensions are end-user applications developed by LEDAS as plugins for popular 2D and 3D modeling systems to provide advanced parameterization capabilities to their users. Driving Dimensions are based on the Variational Direct Modeling technology, which uses direct (history-free) editing model elements, preserving its design intent, expressed by explicit and implicit driving dimensions (linear, angular, radial) and geometric constraints. Simultaneous satisfaction of geometric and dimensional constraints is achieved with LGS variational geometric solver, which is being developed by LEDAS since 2001 and is available for licensing to all CAD developers. More information about Driving Dimensions portfolio of applications can be found at http://www.DrivingDimensions.com.

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Magma's QuickCap NX Certified to Support TSMC iRCX Format for 40-nm Processes

10 June 2009

Magma® Design Automation Inc. announced that QuickCap® NX has been certified to support the parasitic extraction and modeling accuracy requirements of the TSMC iRCX format for integrated circuits (ICs) targeting 65-nanometer (nm) and 40-nm processes. With the consistent data provided by the iRCX format, designers can use Magma QuickCap NX to extract accurate parasitic-capacitance values based on the truest 3D representation of the physical circuit. Accurate capacitance values are critical for calculating many properties of chip performance, including capacitive crosstalk, RC delay time and power consumption. With QuickCap NX and the iRCX format, designers can more accurately predict IC performance prior to manufacturing, allowing them to either make modifications or proceed with confidence in achieving silicon success.

The TSMC iRCX is an interoperable interconnect modeling data format that ensures the accuracy of resistance/capacitance (RC) extractors, electromigration (EM) tools, power integrity analysis tools and electromagnetic simulators. iRCX is the first of several interoperable EDA interface formats co-developed between TSMC and its design tool partners as part of the TSMC Open Innovation Platform™ (OIP).

"At the 40-nm and 65-nm nodes, the ability to generate accurate interconnect models at a high frequency can create a bottleneck in the design flow," said Tom Quan, deputy director, Design Service Marketing at TSMC. "By working together to qualify QuickCap NX for TSMC iRCX format, TSMC and Magma ensure designers have the most accurate models, breaking design flow bottlenecks and enabling first-pass design success."

"TSMC has been using QuickCap NX as the standard deviation comparison target for RC extraction tools on special pattern structures and real design samples," said Premal Buch, general manager of Magma's Design Implementation Business Unit. "The TSMC qualification of QuickCap NX for the iRCX format provides our mutual customers with further confidence that Magma's 3D field solver is the industry gold standard for parasitic extraction."

QuickCap NX: The Gold Standard in Parasitic Extraction

QuickCap NX is used by major semiconductor companies as the reference standard for parasitic extraction. It is a highly accurate 3D extractor that precisely models advanced process effects such as optimal proximity correction (OPC), chemical-mechanical polishing (CMP) and trapezoidal wires. QuickCap NX is proven to closely correlate to exact analytical solutions and silicon measurements, delivering capacitance values that are within 1 percent of silicon measurements.

It provides dial-in accuracy and error-bounds reporting on each net, giving the user complete control and trust in the accuracy of results. Leading foundries have validated QuickCap NX's ability to more closely match silicon measurements. By taking process effects into account, the average difference between QuickCap NX capacitance values and actual silicon measurements has been reduced from 9.79 percent to just 0.11 percent.

QuickCap NX in the Magma Flow

QuickCap NX can be used for post-layout analysis in the Magma flow. QuickCap technology is also incorporated into the Talus® physical design software system to support highly accurate timing and noise analysis during chip implementation. It is used to compute the highly accurate capacitance rules used within Talus and the Quartz™ RC sign-off extraction tool.

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Objet Geometries Releases Software Enhancement for PTC Pro/ENGINEER®

8 June 2009

Objet Geometries Ltd., a leader in 3D printing, announced new add-in software for users of PTC's Pro/ENGINEER® 3D computer-aided design (CAD) printing on Objet's Connex500™ system that significantly streamlines the design process and allows greater control of model material preferences.

Available free of charge at the Objet Web site, the new CADMatrix™ add-in enables designers and engineers to assign Objet model materials to multi-part, multi-material designs within PTC's Pro/ENGINEER® software, thus allowing for increased control of 3D model validation.

The CADMatrix™ software for Pro/ENGINEER® is designed specifically for direct and service bureau users of Objet's groundbreaking Connex500™, the first system to allow simultaneous printing of several materials with different mechanical and physical properties. Based on Objet's PolyJet Matrix™ technology, the Connex500 affords new time and price efficiencies in product development and manufacturing.

"As a member of PTC's PartnerAdvantage™ Program, we are proud to bring this great new capability to the Pro/ENGINEER® design community," said Amit Shvartz, VP Marketing at Objet. "The Connex500™ was the first 3D system to access the world of multi-material printing, an opportunity never before available. Now the introduction of CADMatrix™ takes this opportunity to a whole new level, allowing leading designers using Pro/ENGINEER® to assign materials for the Connex directly in the design software platform."

Enhancing Capabilities for Multi-Material Designs

Using an intuitive three-step wizard, the new CADMatrix™ add-in guides users in assigning different materials to different parts of the design. Once the assignment process is completed, the add-in produces a ready-to-print Objet Digital Format (ObjDF) file, which can be sent by e-mail or exported for printing on the Connex500™. As a result, designers and engineers can reduce design cycles and the need for reprints, speeding up the 3D printing process and ensuring greater model integrity as definitions are immediately implemented inside the design.

Andy Barlow, PTC's Senior Director of Business Development, stated, "We welcome Objet Geometries to PTC's PartnerAdvantage Program. We expect their release of the CADMatrix™ add-in will provide Pro/ENGINEER users a powerful means to add materials to multi part 3D models and in turn more rapidly validate the part once printed."

CADMatrix™ for Pro/ENGINEER® is available from the Objet Geometries download center at

http://www.objet.com/DownloadCenter.

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OptiTex Avatar Receives Overall Upgrade

9 June 2009

OptiTex's essential female avatar, EVA has progressed into a more realistic version of herself. The improvements in characteristics provide a significant advantage for designers in the fashion market by solving particular fit issues.

"EVA is a strong example of our dedication to OptiTex customers." Says Ran Machtinger, CEO of

OptiTex. “We strive on a daily basis to create more detailed avatars to reflect unique fits that exist outside of the virtual world.”

Designers at OptiTex have progressed their EVA avatar by creating additional poses; body measurements and shoulder pad fit options as well as improving the texture of her hair and facial characteristics. Additionally, a specific morph of the EVA avatar accommodates the lingerie industries by offering advanced morph settings allowing the most accurate and customized set of measurements available for 3D models.

These sophisticated advancements are yet another addition to OptiTex’s user friendly features ensuring that clients in the underwear and lingerie industries such as Tulips and Tefron can trust OptiTex to constantly provide 3D virtual models to help them solve fit issues.

For images included in this press release please visit
http://www.optitex.com/en/news_and_event/press_releases/2009/Eva_more_of_woman

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PTC Closes the Loop Between Product Requirements and Design with Windchill RequirementsLink

8 June 2009

PTC launched Windchill® RequirementsLink™, the newest addition to its Windchill content and process management family of solutions, and a key component of the PTC Product Development System. By establishing an integral relationship between customer needs, market requirements and the underlying technical requirements, Windchill RequirementsLink helps ensure that customer and market requirements have been satisfied by designs and properly verified during development. This ultimately helps customers deliver winning products with faster time-to-market, improved quality and reduced costs.

Requirements capture and management is a critical product development process that focuses upon translating customer and market needs into prioritized requirements, targets and constraints while establishing bi-directional traceability between requirements, analysis documentation, product designs, BOMs, and verification data. Many customers find it challenging to properly define and select requirements, ensure requirements are visible throughout the development process, and understand the relationships between requirements and product data. It is critical to understand both how design changes impact requirements and how requirement changes impact designs, schedule and costs.

Windchill RequirementsLink offers new capabilities that help optimize the requirements capture and management process. Highlights include:

- Utilize the power of Windchill to manage requirements as part of the overall product development process
- Import requirements from Microsoft® Word™ or Excel® directly into Windchill
- Keep requirements specifications and traceability matrices synchronized and up-to-date
- Track and control changes to individual requirements and collections of requirements
- Define and track relationships between individual requirements within and across

specifications, and to any design data - such as parts, CAD documents, technical documentation, and documents - managed in Windchill

- Provide traceability from requirements through the logical definition of a product, to the physical components implementing the design
- Define and link verification requirements to functional and performance requirements at every level of the design

"It is essential to understand how each customer requirement affects every component within the product structure as this guides our design approach as well as ensures that all requirements can be validated," said Eric Krieg, Mechanical Design Discipline Lead at Pratt & Whitney Rocketdyne. "This knowledge is also critical in understanding how a particular requirement change affects the overall cost and scope of the project. A requirements management solution that is integral to PLM can have a significant positive impact on the amount of time and effort associated with managing how requirements relate to the product structure as well as assessing the impact of a particular requirement change."

"As a software development company, PTC clearly understands the challenges customers face in managing complex requirements and the need to include requirements as an integral part of the product development lifecycle," said Brian Shepherd, executive vice president, product development, PTC. "Windchill RequirementsLink demonstrates PTC's ongoing commitment to investment in new capabilities that enable our customers to strengthen key development processes that significantly contribute to the success of their business initiatives."

Windchill RequirementsLink Availability

Windchill RequirementsLink is scheduled to be available during Q4 FY2009* and requires Windchill PDMLink® For more information on Windchill RequirementsLink, please visit the Windchill RequirementsLink product pages on www.ptc.com.

*The timing of any product release, including any features or functionality, is subject to change at PTC's discretion.

Tune in to www.ptc.com/events/ptcuser09 for real-time event coverage through Tweets and Blogs from PTC staff and event attendees. We'll be tagging all event Tweets with #ptcuser09. Follow PTC on Twitter @Did_You_Know.

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PTC Expands Technology Leadership with Enhanced Product Development System Capabilities

8 June 2009

PTC announced new and enhanced capabilities for many of its product lines, including its Windchill®, Arbortext®, ProductView™, and Insight® software solutions, all critical components of the PTC® Product Development System (PDS). The PTC PDS provides a complete, scalable product development platform that leverages PTC's combination of strengths to help companies achieve their corporate goals through product development process optimization. These new enhancements are being delivered during June-July 2009 so that customers can take immediate advantage of the improvements, increasing the value delivered by the PDS and extending PTC's technology leadership.

Windchill®

PTC continues to enhance Windchill® to give customers greater content and process management capabilities with the following new features:

Integral solution for Requirements Management - PTC introduces Windchill RequirementsLink,(*PTC Closes The Loop Between Product Requirements And Design With Windchill RequirementsLink*™ separately announced press release dated June 8, 2009) an optional module which will help ensure customer and market needs have been satisfied by managing, tracking, and cross-referencing product requirements as part of the overall product development process

Expanded Pro/ENGINEER® compatibility with support for Pro/ENGINEER Wildfire® 5.0 (*PTC Addresses Key Barriers to Productivity with Pro/ENGINEER® Wildfire® 5.0* separately announced press release dated June 8, 2009)

PDS Interoperability – Mathcad®, Arbortext IsoDraw®, CoCreate® Drafting and CADDS® 5 content can be captured, controlled and shared within a single enterprise environment, and even within a single product structure

Windchill Webparts for SharePoint – This new module will allow Windchill information such as tasks and assignments to be presented to users in a familiar Microsoft SharePoint® interface

Windchill Gateway for I-deas® TDM - I-deas TDM design data can be captured within Windchill as part of the overall product configuration

Enhanced integration with CATIA® V5 – The Windchill Workgroup Manager for CATIA V5 will now include support for CGR cache mode and enhanced CATIA V5 document link support

Arbortext®

Arbortext IsoDraw®7.1 will now be fully integral with Windchill PDMLink® to provide the industry's only solution to track and manage the entire associative relationship between original CAD designs, related 2D and 3D illustrations and the associated product information used for the operation, service and maintenance of equipment. This integration ensures that illustrations are updated and introduced in-line with product updates in a managed way.

In addition, the latest release of Arbortext will include usability and interoperability improvements that will enhance end-to-end product information delivery. This includes:

Expanded authoring reach with Arbortext Editor™ with an ActiveX version for Web-based deployment, new offline authoring capabilities, and the ability to launch Arbortext Editor from the Windchill PDMLink Software Downloads page

Automated, rapid publishing of interactive content using Arbortext Digital Media Publisher and Arbortext Styler™

Broader 3D illustration capabilities with native support for additional CAD formats including CATIA, JT, Unigraphics® and SolidWorks® with Arbortext IsoDraw using the ProductView Adapters

ProductView™

PTC's free, downloadable release of visual collaboration software, ProductView Express, is now built on the same high-performance architecture as ProductView MCAD Professional. ProductView Express 9.1 not only provides import and viewing of individual Pro/ENGINEER® and other CAD-based ProductView files without requiring authoring software, it also delivers unparalleled visualization capabilities for both large and small assemblies. With ProductView Express, users can spin, pan, and

zoom parts and assemblies, as well as review markups and other product manufacturing information to enable 3D collaboration across the entire supply chain.

InSight®

InSight Environmental Compliance, a module of PTC's product analytics software, will be integrated with Windchill PDMLink 9.1 to provide a solution that tracks and manages compliance requirements that are relevant to a product configuration. As companies are now faced with a growing set of standards and environmental compliance regulations, this new integration allows engineers to verify that their product is compliant with evolving regulations such as REACH, RoHS, and WEEE.

Expanding Technology Leadership Throughout Product Development

Product development innovation requires the support of technology solutions that are powerful, scalable and rich in capabilities. Since its inception, the PTC PDS has continually evolved to anticipate and support the ever changing landscape of customer requirements. It provides a unified platform of independently great products that work well together to support the upstream, downstream and core product development activities of today's manufacturers.

"PTC continues to execute its unique PDS strategy with the delivery of new capabilities that address the product development challenges facing our customers," said Brian Shepherd, executive vice president, product development, PTC. "These PDS enhancements allow customers to enjoy incremental benefits that help them achieve their product development objectives."

Availability

The new capabilities are planned to be available during June and July 2009 except for Windchill RequirementsLink which will be available during Calendar Q4 FY2009. *

***The timing of any product release, including any features or functionality, is subject to change at PTC's discretion.**

To learn more about these and other PTC products, visit the products pages on http://www.ptc.com/.

Tune in to www.ptc.com/events/ptcuser09 for real-time event coverage through Tweets and Blogs from PTC staff and event attendees. We'll be tagging all event Tweets with #ptcuser09. Follow PTC on Twitter @Did_You_Know.

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PTC Targets Key Barriers to Productivity with Pro/ENGINEER® Wildfire® 5.0

8 June 2009

PTC announced the launch of Pro/ENGINEER Wildfire 5.0, the next major release of its integrated 3D CAD/CAM/CAE software and a key component of the PTC® Product Development System. Pro/ENGINEER, the world's first parametric CAD solution, continues to extend its market position with the delivery of new capabilities to help customers eliminate traditional design barriers to achieve faster, more efficient and more innovative product development. Pro/ENGINEER Wildfire 5.0 is scheduled to be available during calendar Q4 FY2009.

In today's complex environment, product development teams often face a number of barriers that can impact productivity. These include the difficulty of making design changes, the length of time to productivity, dealing with heterogeneous CAD data, working with a multitude of disconnected point

solutions, and identifying resources and leveraging collective knowledge when needed. Pro/ENGINEER Wildfire 5.0 will offer powerful new capabilities and over 330 enhancements that improve productivity, enrich the user experience and provide the freedom to design without barriers.

Highlights include:

- Make design changes faster and easier!
  Real-time, dynamic editing and disruption-free design will help users overcome the traditional barriers to design modification.
- Accelerate time to productivity by up to 10X.
- User Experience enhancements such as graphical browsing, intuitive UI enhancements, streamlined tasks and faster performance improve design efficiency and reduce time-to-market from concept through production. Create simplified sub-assemblies, place forms and create molded parts up to 80% faster. You can also analyze weldments up to 10x faster and create facing toolpaths 5X faster.
- Provides unsurpassed realism in less time. The Pro/ENGINEER Advanced Rendering Extension will now include high performance rendering technology from mental images. This new integration provides ease of use through quality material presets and real-world illumination models.

“Mental images is committed to providing industry-leading, high performance rendering software,” said Rolf Herken, CEO and CTO of mental images. “We are pleased to announce our new strategic partnership with PTC for uniting Pro/ENGINEER and mental ray, to deliver state of the art visualization capabilities to product development teams worldwide.”

Design in a multi-CAD environment faster!
Pro/ENGINEER Wildfire 5.0 sets the standard for CAD interoperability. With increased native support for other CAD systems and non-geometric data exchange designers can address the time-consuming and error-prone challenges of working with CAD data from multiple systems.

Leverage new, seamlessly integrated Pro/ENGINEER applications.

Pro/ENGINEER continues to redefine how we work in today’s highly coupled, multi-disciplinary design environment. New with Pro/ENGINEER Wildfire 5.0, Pro/ENGINEER Spark Analysis Extension is the only commercially available product that helps analyze and optimize the electromechanical clearance and creepage properties of designs.

Continued technology leadership and enhancements to industry leading modules such as digital rights management, ECAD-MCAD collaboration, and the newly introduced digital human modeling solution will enable users to save significant time and costs associated with wasteful physical prototyping, production rework and field failures.

The integration of all of these capabilities into Pro/ENGINEER will help to reduce errors, time and costs from using too many disparate/disconnected tools.

Increase collaboration efficiency with breakthrough social product development capabilities.
Pro/ENGINEER Wildfire 5.0, the first CAD solution enabled for social product development, will help users remove the communication barriers preventing them from finding the right people and resources at the right time. The seamless integration between Pro/ENGINEER and Windchill ProductPoint®, which is built on Microsoft® SharePoint® social computing technologies, will help users find and reuse their

design community's collective knowledge and improve process productivity.

"Pro/ENGINEER Wildfire 5.0 offers a broad range of enhancements that will help engineers at Exmark Manufacturing continue to develop long lasting, cutting edge, commercial turf equipment," said Brian York, Engineering Process Improvement Specialist, Exmark Manufacturing, a division of The Toro Company. "Enhancements such as dynamic feature editing, disruption free design, weldment design, assembly enhancements and other user experience enhancements will continue to allow us to design industry leading, highly innovative products such as our Next Lazer Z®."

"Particularly during challenging economic times, customers demand and expect technology leaders like PTC to provide solutions that will help them to address barriers to productivity that can inhibit them from efficiently creating great products," said Brian Shepherd, executive vice president, product development, PTC. "Pro/ENGINEER Wildfire 5.0 demonstrates PTC's ongoing emphasis on quality and commitment to deliver capabilities that enable our customers to develop winning products and bring them to market faster and at lower costs."

Pro/ENGINEER Wildfire 5.0 Upgrades and Product Availability

Pro/ENGINEER Wildfire 5.0 is scheduled to be available during calendar Q4 FY2009.*

*The timing of any product release, including any features or functionality, is subject to change at PTC's discretion.

For more information on Pro/ENGINEER Wildfire 5.0, please visit the Pro/ENGINEER product pages on www.ptc.com

Tune in to www.ptc.com/events/ptcuser09 for real-time event coverage through Tweets and Blogs from PTC staff and event attendees. We'll be tagging all event Tweets with #ptcuser09. Follow PTC on Twitter @Did_You_Know.

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Siemens PLM Software Announces Availability of NX for Mac OS X

11 June 2009

Siemens PLM Software announced general availability of its NX™ software application with native support for Mac OS X on 64-bit Intel-based Macs. The full computer-aided design and manufacturing (CAD/CAM) functionality of NX, Siemens PLM Software's flagship digital product development application, now includes the Mac in its list of supported operating environments.

"We are delighted to add the Mac to the comprehensive list of operating environments supported by our NX CAD/CAM applications," said Joan Hirsch, vice president of Product Design Solutions, Siemens PLM Software. "Today's announcement further expands the flexibility of NX and provides customers with the freedom to choose from one of industry's broadest range of supported operating systems."

"NX has been our exclusive CAD/CAM software for several years because of its unmatched ability to handle all of our product design and manufacturing needs," said Marcel Eggimann of Eggimann Design. "At the same time, we have always preferred the Mac as the system of choice for the work we do. Now we can have the best of both worlds as these two great technologies come together. We have been using NX on Mac OS X for three months now and we are very impressed with its performance and reliability."

The Mac OS X version of NX includes all of the software's CAD and CAM functionality, as well as

support for Siemens PLM Software's Teamcenter® platform through rich client capabilities embedded in NX and the thin client based on Apple's Safari web browser. As a result, NX for Mac OS X can leverage all the capabilities of Teamcenter including its ability to support a multi-platform CAD strategy.

"It's pretty clear that more and more people are demanding that their primary software tools are available on their operating system of choice," said Al Dean, Editor in Chief, DEVELOP3D.com. "Siemens PLM Software's move with NX to Mac OS X should see them gain a foothold in a growing community."

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Social Computing Meets Product Development

8 June 2009

With the widespread adoption of Web 2.0 technologies and the evolution and acceleration of global product development initiatives, PTC believes the market is ready for a measurable shift in the way products will be developed. The cornerstone of this shift is the marriage of social computing to product development, or what PTC is calling social product development. Robin Saitz, SVP, Solutions Marketing & Communications, discusses the thinking behind Social Product Development.

"Collaboration has long been a critical component of product development, and today's operating conditions are shining a spotlight on the ability of companies to share information and knowledge with team members in a secure, IT-friendly environment," said Rob Gremley, executive vice president of PTC.

A recent commissioned study conducted by Forrester Consulting on behalf of PTC surveyed more than 7,000 users of PTC and other products used for product development. Among respondents to this study, 89% use some form of social technologies at least once per month and 70% use these technologies for work purposes, suggesting that this population is well positioned to adopt social product development practices.

"With Microsoft® Office SharePoint® Server 2007, Microsoft connects Web 2.0 and social networking technologies to address collaboration in a business environment," said Kathleen Winder, director of SharePoint Collaboration Partnerships, SharePoint Server Group, Microsoft. "PTC is bringing additional value to product development through its Windchill ProductPoint solution by extending the Microsoft Office SharePoint Server platform to work with complex CAD and structured product data. PTC has combined the business logic layer of Windchill ProductPoint with the social computing capabilities of the SharePoint application framework, to introduce the benefits of social computing in social product development."

The PTC® technology stack used to support social product development consists of three technology layers as part of one, seamless, secure and easy-to-use platform.

Microsoft Office SharePoint Server 2007 (SharePoint) for document collaboration, and social computing.

PTC Windchill® ProductPoint® for sharing, and reusing structured content such as CAD models.

A layer of authoring applications that can include PTC Pro/ENGINEER® for creating digital product representations; PTC ProductView™ for visualization, markup, and digital mockup of lightweight

product viewables; PTC Mathcad® for documenting proprietary engineering calculations; and Microsoft Office® for authoring documents, spreadsheets, presentations, and other content.

Manufacturers that adopt social product development using PTC technology will benefit from having an integral solution stack that is designed and tested to work together to complement existing product development implementations of PTC technologies. These same companies should also experience a lower total cost of ownership because the PTC social product development platform leverages services and capabilities that are part of the Microsoft SharePoint Server application platform.

“Social product development is the next step in the evolution of how people work together,” said Gremley. “The idea that social product development was ever considered to be a new and revolutionary model will seem inconceivable to the next generation of engineers who have grown up with social networking as a normal vehicle for information sharing. Organizations that are able to harness the power of social computing in their product development strategy will quickly outpace their competitors with greater operational efficiency and ultimately better products.”

Tune in to www.ptc.com/events/ptcuser09 for real-time event coverage through Tweets and Blogs from PTC staff and event attendees. We’ll be tagging all event Tweets with #ptcuser09. Follow PTC on Twitter @Did_You_Know.

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SofTech Announces the ProductCenter PLM Discovery Program

9 June 2009

SofTech, Inc. announced its ProductCenter™ PLM Discovery Program as a means for companies to achieve the benefits of a PLM solution without the customary uncertainty of whether or not they have invested in the right technology or long term partner.

The program is designed so that in just one week, not months or years, a live PLM solution will be functional using the company’s product data in their own environment. ProductCenter will be tailored to meet the company’s specific requirements and include PLM functionality such as: vaulting and viewing product data; global collaboration; directly managing multi-CAD files from applications such as SolidWorks®, Autodesk® Inventor®, AutoCAD® Mechanical and Electrical, CADRA®, or Microsoft® Office; automating the engineering change process as well as managing the Bill of Materials while achieving the primary objective of managing the complete product definition as the ProductCenter Bill of Information.

“Today’s economic climate is challenging manufacturers to work more efficiently and to promote productivity improvements throughout the organization. Many companies are facing the challenge head on by implementing a PLM solution to manage product data and processes,” states Jean Croteau, SofTech’s President. “Understanding that companies today are in no position to risk valuable dollars on technology investments that may not lend them the expected returns, SofTech is pleased to offer our ProductCenter PLM Discovery Program to companies in search of a PLM solution without the normal risk that is associated with such a decision. Through ProductCenter, companies are able to improve the management of the product Bill of Information, facilitate internal and external collaboration throughout the global enterprise, support standards such as ISO, RoHS or FDA, implement new product development processes and integrate PLM with other critical enterprise applications, such as ERP, MRP, SCM, and CRM systems.”

Croteau goes on to say, “We are confident that this program will not only deliver a practical PLM solution that can manage a company’s entire product lifecycle and improve their business practice efficiencies, but also demonstrate the business partnership that our ProductCenter customers have grown accustomed to. This low-risk ProductCenter PLM Discovery Program allows companies to accelerate the selection process and to prove the justification for a PLM solution.”

For additional information on the ProductCenter PLM Discovery Program, please contact SofTech at (978) 513-2722 or visit the SofTech web site at http://www.softech.com/evaluate-plm/discover_plm.php for more details.

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SyncroFIT™ 2009 Reduces Time to Manage Airframe Fasteners By Up to 80% While Significantly Decreasing Errors

9 June 2009

VISTAGY, Inc announced the release of SyncroFIT™ 2009, which improves the efficiency and accuracy of assembly development by enabling commercial 3D CAD users to fully define and manage joints and interfaces between parts within complex assemblies. The solution enables engineers to specify fasteners and holes, rapidly load catalog parts and validate adherence to design rules when creating large aerostructures. SyncroFIT can be used individually or as part of the VISTAGY AeroSuite™, a comprehensive solution that enables aircraft manufacturers to effectively manage the product development process and deliver optimized parts and assemblies in less time at lower cost.

Defining joints and interfaces presents common and costly bottlenecks in the airframe assembly design process and is a leading source of manufacturing errors. For example, managing the nearly two million fasteners in an aircraft has traditionally been a manual process plagued by inaccurate fastener definitions and difficulty making design changes. Approximately 40 percent of design changes are due to errors in the authoring of the initial assembly interfaces. At up to $20,000 per engineering change order, using SyncroFIT to avoid these errors translates into several million dollars in savings. The commercial CAD system alone doesn’t give engineers the specialized functionality they need. But SyncroFIT works within the CAD system to enhance the accuracy and efficiency of the design process and provide an early warning of potential issues in the manufacturing process so OEMS and suppliers can meet demanding delivery schedules.

Engineers need effective tools for visualizing the airframe assembly at the appropriate level of detail for the task at hand to work efficiently and obtain the necessary insight into the development process. VISTAGY has consequently created functionality that enables the user to toggle between different visualization states. During the assembly design and fastener layout phase, simple point and vector representations of fasteners are sufficient to communicate key information quickly. At other times, clearance solids—such as cylindrical fastener representations or tool envelopes—are necessary to assess manufacturability by visualizing potential interferences that could occur during assembly. But if the task is to perform complete clash/interference detection, maintenance or installation studies, or if it is a required supplier deliverable to the OEM, it is necessary to load fasteners into the model so all the hardware can be seen, including nuts, washers and nut plates. To do this, engineers need to visualize the assembly populated with solid model representations of the fastening hardware and have the ability to easily delete or select different fasteners and associated hardware to meet design specifications.

SyncroFIT automatically loads fasteners and hardware from the parts catalog into the 3D model with the

push of a button, taking only minutes to do what can take days using a manual process. Customers have experienced up to an 80 percent reduction in time to define fasteners using this functionality alone.

In addition to the unique visualization capability, SyncroFIT provides a number of fastener related design checks, including edge distance and pitch, countersink depth, angularity and length-to-diameter ratio. Verifying that design rules are met throughout the iterative development process ensures that commonly occurring errors are caught prior to design release. These rules enable enhanced communication between design and analysis to expedite the design review process.

The lack of a standardized process for defining conditions of supply is another factor that has historically caused a high level of rework. SyncroFIT remedies this problem by providing a clear definition of the deliverable state of the component to make the assembly process easier and to ensure clear communication between supply chain partners. The software simplifies the process of conveying changes to suppliers, ensures the product is manufactured properly and saves valuable time.

"Our in-depth experience in the aerospace industry enables us to develop software that supports the engineering challenges at different points in the development process," said Bob Flory, vice president of product development at VISTAGY. "SyncroFIT 2009 allows design information to be captured and leveraged more completely throughout the entire development process, making it more efficient and less error-prone. As a result, airframe developers are far better able to deliver parts and assemblies in a timely and cost-effective manner."

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The Ambassador Delegate for Windchill® Launched by Stoneworks Software Corporation

10 June 2009

Stoneworks Software Corporation, a Platinum tier Software Partner in the PTC PartnerAdvantage™ Program, has worked with PTC and IBM to launch a new product offering, the Ambassador Delegate for Windchill®. The Ambassador Delegate for Windchill®, formerly known as RMLink, is validated as Ready for IBM Rational and integrates IBM Rational DOORS® data throughout the PTC Windchill® PLM solution. Windchill users can now navigate and trace DOORS® requirement data within Windchill PDMLink.® Built upon a SOA platform, the Ambassador Delegate for Windchill® offers an OOTB solution that is easily deployed. With its sleek design, the Ambassador Delegate for Windchill allows users full traceability to DOORS® data. Windchill users may even link DOORS® data to hardware and software objects.

The Ambassador® Delegate for Windchill allows business analysts, project managers and development teams to view Requirements and their attributes within seconds. Stoneworks Software Corporation has built a tool that brings the best of both worlds together. Forget about product mishaps and missing requirements. Imagine your PLM Team using Windchill® while having the power of DOORS® at their finger tips. Ambassador® Delegate for Windchill gives your PLM team an arsenal of tools and information to get the job done correctly the first time around.

PTC and IBM have been working together to educate customers on the business benefit of managing product requirements throughout the product development lifecycle, and how Stoneworks can help customers realize those benefits. PTC has recently signed a Co-Sell/Referral Plan with Stoneworks Software Corporation and has begun efforts to offer the solution internationally. "We are pleased that PTC and IBM view our products as tools that are important to their customers, and we are delighted to have been included in the PTC Partner Advantage™ Program at a Platinum level" stated Joe Gardenghi,

Chief Operations Officer of Stoneworks Software Corporation."

Andy Barlow, PTC's Senior Director of Business Development, stated, "With the addition of Stoneworks Software Corporation to the PTC PartnerAdvantage Program, Windchill PDMLink® users have a new and powerful solution with the Ambassador Delegate for Windchill®." He continued, "The PartnerAdvantage program is comprised of software providers selected for their expertise. Through our review process, Stoneworks Software Corporation demonstrated its expertise in enhanced requirements management integration. The company is a great addition to the program." "Defining, managing, and tracking requirements across the product lifecycle is critical to successful new product delivery, and the integration of Rational DOORS and PTC Windchill by Stoneworks provides clear value to customers," said Ken King, IBM Rational VP, System Business.

The Ambassador Delegate for Windchill®, also known as the Delegate for Windchill® is loaded with features that are essential to the success of product development teams. The capabilities and cost benefits that the Ambassador Delegate for Windchill® provides are the tools needed to keep integrated product development teams on track, focused, and aligned. Delegate for Windchill® is distributed via CD and is installed with minimal effort providing turnkey integration. The Delegate for Windchill® package-based installer allows Systems Administrators to easily deploy Delegate for Windchill® Server and components. The Delegate for Windchill® installation package is offered in shrink wrap and click wrap packages. Regardless of the preferred installation method, the Delegate for Windchill® Setup Wizard easily guides one through the install.

Stoneworks, with its product Delegate for Windchill®, was one of the first DOORS partners validated as Ready for IBM Rational following IBM's acquisition of Telelogic. Stoneworks is demonstrating industry leadership in bringing software product line tools and integrations to the forefront of the mainstream product development community. As a validated PTC and IBM Rational partner, Stoneworks will continue to expand its collaboration and technology co-development efforts with the IBM Rational Software Platform for Systems and PTC Windchill®.

To learn more about Delegate for Windchill® and the Stoneworks Software Corporation please reference the Stoneworks website provided here. Stoneworks Software

More information on IBM Rational DOORS can be found at IBM Products

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