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CIMdata News

IBM—A Leading Provider of Product Lifecycle Management Solutions (CIMdata Commentary)

13 April 2009

As part of CIMdata's annual PLM market research and analysis, we evaluate the major PLM solution providers and review the progress of their PLM programs and activities. One company that many users don't fully appreciate as a leading PLM provider is IBM. For several years, IBM has been growing its PLM capability and practices and today offers one of the widest ranges of sales, services, and support for PLM. With its global presence, PLM Centers of Excellence and large trained PLM services staff, IBM has established itself as one of the leaders in the PLM industry and CIMdata wanted to review its overall program and put it in context within the PLM industry.

IBM has had a strong commitment to PLM and has been providing products and services in support of

CIMdata PLM Industry Summary

PLM for more than 30 years. Until the late 1990s, IBM was the primary marketing and sales channel for Dassault Systèmes products—primarily CATIA. However, over the last decade, IBM has established a broader focus on PLM and has dramatically expanded their PLM programs. Today IBM is one of the leading suppliers of PLM solutions to industry with respect to both overall revenues and services.

Although its relationship with Dassault has undergone some changes in the last few years, most visibly with management of the PLM channel partners being transferred from IBM to Dassault, IBM continues with direct sales and support of Dassault products. These direct sales are focused on a select set of major companies around the world. Recent announcements by IBM and Dassault Systèmes and their support of BMW's Efficient Dynamics initiative illustrate this relationship. The announcements reported that BMW has decided to establish a single digital software environment for the mechanical design of all BMW engines across its fuel and diesel-powered cars, motorcycles, and its newest line of eco-friendly, hybrid cars. IBM and Dassault report that they are working with BMW to harmonize and consolidate all mechanical design initiatives into a single digital infrastructure, which is intended to support the full product lifecycle and collaboration with its supply chain.

In addition to products developed by Dassault, IBM also sells its own products and has developed relationships to furnish services associated with PLM offerings provided by a number of other suppliers. Currently, IBM is the world's largest PLM services provider and also provides the IT infrastructure for many PLM implementations. Illustrating the breadth of their offerings, IBM PLM programs and solutions include:

- Sales and support of Dassault Systèmes software including CATIA, ENOVIA, DELMIA, SIMULIA, and 3DVIA.
- IBM Industry Solutions sales through PLM partnerships and alliances with MSC Software, PROSTEP, PTC, and Siemens PLM.
- Sales, support, and integration services to build a PLM infrastructure leveraging IBM's middleware offerings with WebSphere (SOA), Information Management (DB2), Tivoli, Rational and Lotus Domino and Sametime.
- Sales and support of acquired software assets that expand and enhance IBM's PLM solution portfolio including Telelogic, Cognos, Trilogy, ILOG, MRO, and others.
- PLM IT technology and infrastructure using WebSphere, DB2, Domino, Tivoli, Cognos, and others such as a SOA-based PLM Content Pack.
- IBM Global Business Services (GBS) consulting support of the leading PLM technology providers and their products, e.g., Dassault, PTC, SAP, and Siemens PLM.
- IBM Global Technology Services (GTS) offerings such as hosting of on-demand PLM environments and technical and operational support.
- IBM Industry Solutions Centers and IBM's PLM Centers of Excellence engagements.

As part of its PLM programs, IBM has established ten global PLM Centers of Excellence (<http://www-03.ibm.com/press/us/en/pressrelease/24769.wss>) to provide customers and prospects the ability to conduct PLM proof of concepts, pilot PLM solutions, and to develop PLM business strategies using industry benchmarking studies to identify a company's current PLM performance levels against competitors or partners. These Centers are also used by IBM to help develop and validate their own PLM industry solution offerings.

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In support of its PLM initiatives, IBM reports that they have nearly 3,000 PLM experts and practitioners across its sales, software, services, research, and development divisions. IBM also reports that they have greatly expanded and focused training of PLM sales and services personnel so that they are no longer primarily focused on “point applications,” but are trained in consultative selling and implementations to be better prepared to deliver more comprehensive business solutions to their PLM customers.

CIMdata estimates that IBM PLM revenues (net of royalties) exceeded \$1.6 billion in 2008. Note that we do not include IBM’s GTS operations activities within our market estimates and those activities and revenues expand IBM’s PLM footprint even further. Their multi-faceted products and services position IBM as one of the top five revenue generators within the PLM industry. We expect IBM to continue to grow its PLM presence in the coming years. Part of that growth may result from acquisitions as IBM buys companies to expand its range of offerings. However, IBM also continues to expand its internal PLM resources and has demonstrated a commitment to use its industry domain expertise to develop and implement business focused PLM solutions.

About CIMdata

CIMdata, a leading independent worldwide firm, provides strategic consulting to maximize an enterprise’s ability to design and deliver innovative products and services through the application of Product Lifecycle Management (PLM) solutions. Since its founding more than 25 years ago, CIMdata has delivered world-class knowledge, expertise, and best-practice methods on PLM solutions. These solutions incorporate both business processes and a wide-ranging set of PLM enabling technologies. CIMdata also offers research, subscription-based services, publications, and educational services. Visit <http://www.CIMdata.com> for more information.

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PTC Expands Mathcad Management (CIMdata Highlight)

16 April 2009

PTC announced that Mathcad 14.0 content can now be managed with Windchill 9.1. This continues and expands PTC’s embedding of Mathcad across its product suite. This new capability will enable users to search for Mathcad content that spans multiple worksheets using Mathcad file attributes and common mathematical and Greek characters. PTC also stated that once a Mathcad reference is established within Pro/ENGINEER (or even from within another Mathcad file), Windchill systematically maintains this relationship. Thus, regardless of where users check-out a top-level design or worksheet, they can be guaranteed to also check-out any dependent Mathcad files. Additionally, a preview function will allow any authorized person to see a static preview of every Mathcad worksheet revision that’s checked into Windchill, e.g., a reviewer or partner in the supply chain.

This integration and management of Mathcad worksheets adds good value to the PTC portfolio of products by expanding a company’s ability to capture and share the intellectual knowledge and best practices of its engineers.

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Company News

Arena Solutions Adds New Premier Level to Its Trusted Advisor Program

15 April 2009

Arena Solutions announced it has introduced a new premier status level to its Trusted Advisor Program (TAP), improving the way it rewards its most productive partners, with incentives set according to their level of engagement with the company. TAP Premier participants earn higher referral fees, have access to additional opportunities and enjoy the increased credibility that comes from having greater Arena expertise.

TAP is a network of trusted partners -- manufacturing software resellers, consultants, systems integrators and independent software vendors -- who offer complementary consulting services and software products that solve manufacturers' most pressing problems and help them get products to market faster and at a lower cost. With more than 40 members, TAP has generated substantial referral and direct revenues for participating partners since its inception in 2004, and with the addition of the premier level, promises to deliver even more. All TAP partners are given the tools to develop their expertise in the Arena collaborative bill of materials (BOM) and change management software solution. They can then leverage that expertise to enhance the value they provide and more fully serve their clients.

TAP Premier goes a level beyond, providing highly productive Arena TAP participants with all of the standard program benefits plus opportunities to participate in co-marketing activities, earn service revenues, receive higher referral fees and gain additional annuity income. With TAP Premier, consultancies that serve small and mid-size manufacturers become even more valuable business partners to their clients by building their knowledge of the best applications and services for their customers' specific needs.

Inaugural members of TAP Premier include the Moyo Group, Metafore, Expandable Software and Tranzition.

"Understanding the software solutions that fit a company's needs is a critical service many boutique consultancies provide, especially when their clients are resource-constrained small and mid-size manufacturers," said Jan Steglich, partner programs manager at Arena Solutions. "By making it easy for these consultancies to build expertise in Arena, TAP helps them provide their customers with a proven solution that's demonstrated time and again it can help manufacturers grow and succeed. Not only does this enhance their credibility with clients, but it also results in pipeline growth and incremental revenues for these consultancies. Now with TAP Premier, the most productive among them can enjoy greater compensation and take advantage of additional opportunities, like the chance to become certified in providing Arena implementation and integration services. With TAP membership growing at a healthy pace, we look forward to having many new partners start enjoying the benefits of TAP and TAP Premier this year."

For more information on Arena Solutions partner programs, please visit:

<http://www.arenasolutions.com/partners>.

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Annual Contest of KOMPAS-3D Professionals Continues

13 April 2009

ASCON Group continues to accept projects for its 7th annual Modelling Contest for users of professional version of KOMPAS-3D. Among contenders for valuable prizes are former participants as well as beginners.

One of the former participants in the contest is JSC "Domnaremont" (Russia). Last year the company won in the category "The best professional projects made in KOMPAS-3D from 1000 to 4999 parts", winning first prize with "Pneumotractor" (<http://ascon.net/blank.php?id=1601>). This time they are presenting the project "Crane" intended for carrying loads up to 12,5 ton.

One of the companies, for which participation in KOMPAS-3D Modelling Contest is its first experience, is Permotech Inc. from USA. They are presenting the project of "Casting trough" in the category of "The best professional projects made in KOMPAS-3D up to 200 parts". The real product serves for pouring molten aluminum into the molds installed on the casting table while keeping a steady level of the molten aluminum.

ASCON encourages your submission of new products made with KOMPAS-3D until the close of the contest May 1st 2009.

For more information about the contest please visit http://ascon.net/modellingcontest_2008.php or contact them direct at contact@ascon.net



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Autodesk Brings Historic Designs to Life in New Discovery Channel Series DOING DAVINCI

13 April 2009

The team of 21st century builders, engineers and historians tasked with recreating Leonardo daVinci's inventions for the new Discovery Channel series DOING DAVINCI are using [Autodesk Inventor](#) 3D design and engineering software to virtually test the inventor's designs.

With the first of 10 high-definition episodes premiering on Discovery Channel on April 13, DOING DAVINCI puts a modern twist on daVinci classics by taking viewers through the build process to determine whether daVinci's designs really work. Using materials available only in daVinci's time, the program team works to reconstruct his inventions--everything from a futuristic armored tank to a towering three-story siege ladder--to determine the viability of each design and whether some ideas are better left in the history books.

"Autodesk Inventor is an awesome program. It is the most intuitive program out there, and it allows us to easily design and perform what-if studies to figure out the best option for daVinci's designs," said Valek Sykes, designer, sculptor, special effects expert and one of the team's builders. "Inventor software gives us the most realistic simulation, so we know that when we design and test it in the computer, that's it, it's going to work in the real world. I can't say enough good things about Inventor. I absolutely love creating with it."

The DOING DAVINCI team chose Autodesk Inventor software to digitally design, visualize and simulate their projects before they are built, reducing the need for physical prototypes. Inventor software is the foundation of the Autodesk Digital Prototyping solution. With [Digital Prototyping](#) engineers can create a complete digital representation of their end product. To view video footage featuring Inventor

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software in action on the show, visit <http://dsc.discovery.com/videos/doing-davinci-improving-leonardos-design.html>.

Airing on Mondays on the Discovery Channel at 10pm ET/PT, the program team consists of four experts that work each week to create the never-before constructed inventions. Flash Hopkins is a popular large-scale industrial artist. Valek Sykes is a special effects expert and mechanical designer who has worked on motion picture features including G.I. Joe, I Am Legend, A.I. and Minority Report. Bill Duggan is a carpenter and is the host of HGTV's Curb Appeal. The fourth role of the builder is shared by Jurgen Heimann and Bovinett. Heimann has worked in several areas of filmmaking, including animation, special effects, performance and writing, and is a designer, builder and puppeteer. Bovinett is a mechanical engineer and entrepreneur who specializes in design.

The team also works closely with Dr. Jonathan Pevsner, a published expert on Leonardo daVinci. He advises the team throughout the build process, providing them with insight into history and daVinci's intent.

On the April 13 premiere episode, the team takes a shot at constructing one of daVinci's most futuristic designs--the armored tank, a design that could rival even modern-day inventions. Additional designs featured in the series include a machine gun, a self-propelled cart and a catapult. For more information about the program, visit <http://www.discovery.com>.

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Autodesk Extends Reach to Worldwide Partners and Resellers with Partner Portal

13 April 2009

As part of an ongoing initiative to keep partners and resellers updated on product developments and marketing efforts, [Autodesk, Inc.](#) has announced a new Partner Portal. The online destination is designed to help improve partners' effectiveness in selling Autodesk's 2D and 3D design and engineering software.

"Our goal is to provide our partners and resellers with tools that enable them to drive sales and growth, even in a challenging economy," said Ken Bado, executive vice president of sales and services, Autodesk. "The Autodesk Partner Portal creates an entirely new and much richer interactive experience."

The Autodesk Partner Portal provides these features and functionality, including:

- Sales and Marketing Tools Finder to search and access sales and marketing toolkits
- Serve as gateway to most Autodesk partner-facing corporate websites such as the Worldwide Autodesk Learning Central, and the Partner Center opportunity management, ordering, and support systems
- Personalization features to help partners control and customize user access, preferences, and personal information, as well as find desired Autodesk content according to product, industry, or other specified criteria
- An Events Publisher tool to create and customize events and publish them directly to Autodesk.com

"The new Partner Portal is arriving at the perfect time to support the Autodesk 2010 product launch, and we couldn't be happier," said Gregory Arkin, vice president, CADD Centers of Florida. "With the new

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layout, features and tools, we can now find the information we need quickly and easily, so we can spend our time selling instead of searching. We're glad that Autodesk is investing in the tools and technologies needed to improve productivity and efficiency for our sales team."

The Autodesk Partner Portal will replace One Team Web (OTW) as the online destination for partner information worldwide. Partners who have access to OTW can log into the Partner Portal immediately using their OTW username and password. There is no charge to partners to use the new Partner Portal, and partners can find a brief overview demo and brochure on the current OTW site.

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Autodesk Helps Inspire Student Designers at FIRST Robotics Competition

13 April 2009

Students from around the world will be competing at the 2009 FIRST™ Championship this weekend, aided by more than \$17 million in design software and resources provided by Autodesk, Inc. The FIRST Robotics Competition challenges high-school students to collaborate and build a robot in six weeks to perform a specific task, using a standard kit and common set of rules.

This is the 18th consecutive year that Autodesk has supported the competition, which will be held at the Georgia Dome in Atlanta, April 16-18. Since 1992, Autodesk has contributed approximately \$123 million in resources to FIRST programs to inspire students to pursue architecture, engineering and digital arts careers.

"Today's students are motivated to make a difference in the world, and we know they learn better when they're engaged in meaningful tasks," said Joe Astroth, Ph.D., Autodesk vice president of Learning and Education. "This unique program inspires excitement for science and math by showing that engineers can solve significant problems, making it a very rewarding career. As FIRST participants design and build a robot, they gain insights and skills they need to prepare for the engineering opportunities of the future. Finally, by working together to address a challenge, students learn important life skills, including collaboration, creative problem solving and teamwork."

Autodesk Encourages Teams with Design Competitions

In conjunction with FIRST, [Autodesk](#) is hosting two popular design competitions. The [Autodesk Inventor](#) Design Competition recognizes the team that builds the robot with the best mechanical design using Autodesk Inventor Professional software--a foundation for [Digital Prototyping](#). The software, which is used by professional engineers, helps students to work together to visualize and analyze real-world performance before physically constructing their robot.

The Autodesk Design Visualization Competition awards the team that creates the best 3D animation using [Autodesk 3ds Max](#) and [Autodesk Combustion](#) software for modeling, animation and rendering. The animation must fit this year's theme using [biomimicry](#) to solve a design challenge. Biomimicry is a design discipline that seeks sustainable solutions by emulating nature's time-tested patterns and strategies to address human problems. Winners of these competitions will receive the Autodesk Inventor Award and the Autodesk Visualization Award. To view all of the entries, visit the [Autodesk Design Competition](#) page on the Autodesk FIRSTbase website.

More than 42,000 students on 1,686 teams from the United States and 10 other countries are participating in this year's FIRST competition. FIRST programs are operated by more than 85,000 volunteers worldwide, many of them professional engineers and scientists who mentor the next

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generation of innovators. For more information, visit the Autodesk FIRSTbase website, <http://www.autodesk.com/firstbase>.

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Autodesk Offers AutoCAD 2010 Software to Student Engineering and Design Community Members

15 April 2009

For the first time, [Autodesk](#) is making [AutoCAD](#) 2010 software, its flagship product for 2D and 3D design and documentation, available for free* to members of its global [Student Engineering and Design Community](#). The Student Community is an online resource that offers numerous benefits to students and educators, including free design software, self-paced training, innovative curricula, global social networking, job listings and more.

"We created the Student Community three years ago to help architecture, engineering and digital entertainment students gain the educational resources and technical expertise they need to be successful in their future careers," said Joe Astroth, Ph.D., Autodesk vice president of Learning and Education. "The demand for AutoCAD skills spans many industries. By expanding our offerings to include AutoCAD 2010, students now have easy access to software and resources to help them build those vital skills needed in today's competitive marketplace."

AutoCAD 2010 includes new capabilities introducing free-form design tools, parametric drawing, and enhanced PDF and 3D printing capabilities to help users tackle challenging design problems.

The addition of AutoCAD 2010 to the Student Community allows students to take full advantage of these new design tools, while adding to the portfolio of products they can use to develop skills in key industry concepts such as [Digital Prototyping](#), [building information modeling \(BIM\)](#) and [sustainable design](#). With the addition of AutoCAD 2010, the Student Community now offers more than two dozen free software products. Since its launch in 2006, the Community has expanded to more than 570,000 members representing more than 19,000 schools in 139 countries.

Autodesk Education Initiatives

Autodesk supports students and educators by providing design software programs and other resources designed to inspire the next generation of professionals. By supporting educators to advance design education and science, technology, engineering and math (STEM) skills, Autodesk is helping prepare students for future academic and career success. Autodesk supports schools and institutions of higher learning worldwide through substantial discounts, subscriptions, grant programs, training, curricula development and community resources. For more information about Autodesk education programs and solutions, visit autodesk.com/education.

**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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Delcam's FeatureCAM cuts prosthetic programming times by 75%

April 17, 2009

Moving up to the five-axis machining module of [Delcam](#)'s FeatureCAM feature-based CAM system has

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cut programming times by up to 75% at Fillauer Companies, Inc. Founded in Chattanooga, Tennessee, in 1914 by George Fillauer Sr., Fillauer has subsequently transformed into an international group of companies that manufacture, distribute and custom-fabricate a wide range of orthotic and prosthetic products.

The incentive to change came after a new product planned by the company needed to be programmed for four-axis machining. However, the shape of the family of carbon-fibre parts meant that programming time was going to be unacceptably long so Stephen Moffitt, R&D programmer at Fillauer, looked for a better way. “We have some fairly complicated three-dimensional parts for which we had to incorporate four-axis simultaneous machining,” Mr. Moffitt said. “Our FeatureCAM 3D was capable of doing the job but Matt Beisel, from FeatureCAM in Salt Lake City, talked to me about the five-axis option. The more I heard about it, the more it sounded like a solution for us.”

“Immediately, I saw that it could save me about 75% in my programming time,” Mr. Moffitt claimed. “I could have programmed the parts to be machined with fourth-axis indexing style of machining, by piecing together machine moves to accomplish a complete part. I could machine a little bit here, rotate the fixture, machine a little bit there, and so on. In contrast, with five-axis simultaneous, the tool comes down and doesn’t leave the part until it is complete.” This saves Fillauer programming time and machining time.

“One of the key features for us is the five-axis trimming command,” Mr. Moffitt added. “I can select a group of surfaces and the tool will follow the edges of those surfaces very accurately. The machining results are excellent and this feature saves a lot of programming time.”

“Using FeatureCAM’s five-axis capabilities allows us to hold the part so that it can be machined in one continuous path, saving us quite a bit of time and providing much better results. On a three-axis machine, it would take eight or nine setups for some of these parts which we can now do in one operation,” Mr. Moffitt pointed out. Another important capability of FeatureCAM is the provision of simulations on-screen so any problems can be avoided before the program is loaded into the machine.

Mr. Moffitt had used other CAM software but said that he found FeatureCAM to be more user-friendly and more affordable. “It is very easy to learn,” he commented, “and I feel you get better value with FeatureCAM.”

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Intergraph® Renews Partnership with Rolta

14 April 2009

[Intergraph® Corp.](#) has renewed its partnership agreement with Rolta India Limited to market and support Intergraph software in India.

Intergraph will continue its 23-year long relationship with Rolta, enabling this Indian multinational organization to exclusively offer and support Intergraph’s enterprise engineering and product lifecycle management (PLM) software for the process, power, marine and offshore industries.

In addition, [Rolta](#) will also represent Intergraph’s geospatially enabled software in India to the public safety, security, government, transportation, utilities and communications industries. One in 12 people in the world are protected by Intergraph public safety and security solutions.

“Rolta is pleased continue its long-term and successful partnership with Intergraph,” said K.K. Singh,

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Rolta chairman and managing director. “The combined resources of Rolta and Intergraph in the global engineering and geospatial marketplaces are a perfect match to provide superior customer satisfaction and lead the industry within India.”

Intergraph’s presence in India also includes Intergraph Consulting Private Ltd. in Hyderabad, a wholly owned Intergraph subsidiary providing internal software development capabilities.

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Lectra Names Simon Poulton Vice President of Sales, Strategic Fashion and PLM for North America

13 April 2009

Lectra has named Simon Poulton Vice President of Strategic Fashion and PLM Sales for Lectra North America. Based in New York City, Poulton reports to Roy Shurling, President of Lectra North America, and is responsible for strengthening and extending Lectra's foothold in the fashion and retail sectors, and increasing revenue through Lectra's PLM offering.

Poulton has more than 30 years' experience in the apparel and technology industries, including a number of years spent with Lectra. This post marks his return to the company. He has held sales and leadership roles working with various companies in the apparel industry, including Wal-Mart, Gap, Liz Claiborne, JC Penney, The Limited, Levi Strauss, and many others.

Simon will manage a team of professionals and, with the help of a strong global network, will focus on large apparel accounts in the U.S. His aim is to achieve solid and sustainable growth and to reinforce the company's brand image in fashion and to further strengthen Lectra's position as the leader in the sector in the US. Simon will also help expand Lectra's Fashion Product Lifecycle Management (PLM) activity.

[Lectra](#) Fashion PLM is a comprehensive, high-performance solution for the fashion sector. Lectra Fashion PLM can also be used in conjunction with Lectra's software: Kaledo® for design, Modaris® and PGS for pattern-making, Modaris 3D Fit for virtual 3D prototyping, and Diamino® and MGS for marker-making.

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Zweave Offers PLM Stimulus Package

15 April 2009

[Zweave, Inc.](#) announced the release of its on-demand PLM stimulus package: “The Zdesign Advantage Package”.

“Having the right strategies and capabilities will not only help ensure survival during difficult market conditions, but will actually help companies emerge as market leaders” says Laura McCann-Ramsey, CEO of Zweave. “The Zdesign Advantage Program is designed to enable any size company to act on winning strategies in order to gain a competitive edge.”

“The Advantage Program offers the core functionality required of any PLM solution” says Mark Mandrano, Zweave’s V.P Client Services and Sales. “The Zdesign Advantage package includes 10 Zdesign Studios for 10 users and tools and reports for Color, Material, Sample Tech Pack, BOM, Fit, Line Plan and Trend Management. With software and services bundled in to a fixed price implementation that includes training and configuration clients can see results and ROI in a matter of

weeks” says Mandrano.

“Without the ability to invest in the benefits PLM offers, the industry will continue to struggle. What matters to our clients matters to us” says McCann-Ramsey. “With on Demand PLM we can make PLM accessible to the industry at a fraction of the cost and help everyone stay in the game, remain competitive and demonstrate their strengths as product development and manufacturing organizations.”

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ZWSOFT Announces Winners of ZWCAD CAD Design Contest

14 April 2009

ZWCAD Software Co., Ltd. has just announced the winners of its ZWCAD CAD Design Contest.

“I’d like to congratulate ZWSOFT on the CAD design contest for its excellent product: ZWCAD 2009. It provides an ideal vehicle for designers to create more innovative designs,” said T. M. Musa Zakaria, one of the entrants and a CAD instructor from Indonesia. “Using ZWCAD we can easily construct real 3D models – something very important in my job.” All of the contest winners, including the Top 12 Excellent Designers and Top 4 Excellent Designers can be found at <http://www.zwcad.org/cadcontest>.

“The response to the ZWCAD CAD Design Contest has been fantastic, with entries from over 20 countries, but the unifying theme has been passion,” said Owen Zi, Director of ZWSOFT Overseas Department. “This contest provided a unique way for our users to become a part of the ZWCAD community. We thank everyone who participated for helping us launch the design campaign with such a big bang.”

The list of finalists, and the innovative designs they have created, will be listed in the drawing gallery of ZWCAD website and the winning entries will be incorporated into ZWSOFT’s 2009 marketing activities. The contest, and today’s announcement of the winners, is the finale to the initial launch of the ZWCAD 2009 promotion campaign. The comprehensive campaign includes ZWCAD 2009 Worldwide Events, which will continue throughout 2009, as well as other promotion activities organized by over 150 ZWCAD authorized partners worldwide.

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Events News

Announcing the ProSTEP iViP Symposium 2009: Mechatronic Development – an Interdisciplinary Challenge

April 2009

The ProSTEP iViP Symposium 2009 is being held **May 12 and 13, 2009** at the [bcc Berliner Congress Center](#) in Berlin (Germany).

In more than 45 lectures, 3 workshops and 5 high-ranking keynote-addresses it offers topics on Project Management, Mechatronic, Visualization and Traceability.

Keynotes include the Heinz Nixdorf Institute addressing the topic „From Mechatronics to Self-Optimizing Systems –Domain-Spanning Principle Solution as Basis for Communication and Cooperation“, while IBM will describe their view on the automobile industry 2020 and the challenges

for the project development process.

There will also be keynote addresses from Siemens, BMW and the Technical University of Kaiserslautern.

Up-to-date information as well as the abstracts of the lectures is available at <http://www.prostep.org/en/events/symposium-2009.html>.

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Apache Design Solutions to Host Noise Integrity Workshop at the Design Automation and Test, Europe (DATE) Conference

15 April 2009

Apache Design Solutions has announced that it will host a noise integrity workshop at the Design Automation and Test, Europe (DATE) conference in Nice, France, on Wednesday, April 22. The workshop will focus on how to manage noise integrity challenges, mitigate design failure risks and reduce overall system costs. Discussions will deal with issues such as power and thermal integrity, voltage drop induced functional and timing malfunctions, and excessive chip-level EMI. The attendees will learn how Apache's Noise Integrity solutions provide early-stage design optimization, accurate sign-off, and post-silicon debug for today's complex designs.

WHO: Apache Design Solutions

WHAT: Noise Integrity Workshop

WHEN: Wednesday, April 22, 2009 2:00 PM - 4:00 PM

WHERE: Design Automation and Test, Europe (DATE) Conference, Nice Acropolis Congress/Exhibition Center, Room: Galieni 4

The company will also hold a drawing at the end of the workshop for an Apple iPod touch.

Registration for the workshop can be done at: <http://www.apache-da.com/apache-da/Home/NewsandEvents/Seminars.html>

DATE'09 will take place in Nice, France, from April 20 – 24, 2009, at the Nice Acropolis congress/exhibition center. The DATE conference is one of the world's premier conferences dedicated to electronic and embedded systems design. Its sponsors include the European Design and Automation Association, the EDA Consortium, and the IEEE Computer Society.

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COADE Discovery Tour Scheduled in Santa Cruz, Bolivia for April 28th Featuring CADWorx Plant Design Suite

13 April 2009

COADE announced that a COADE Discovery Tour event featuring the CADWorx Plant Design Suite will be held on April 28, 2009, in Santa Cruz, Bolivia, organized in conjunction with [Coacom](#), COADE's dealer in the region. This educational session will feature the latest capabilities of the company's CADWorx Plant Design Suite and include introductions to CADWorx P&ID, CADWorx fieldPipe and CADWorx fieldPipe for CloudWorx.

CIMdata PLM Industry Summary

Last year's COADE Discovery Tour events held worldwide attracted record numbers of plant designers and engineers. "The excellent attendance we saw at these events confirmed the growing popularity of CADWorx Plant Design Suite as the future of plant design in the global market," explained Paulo Moncores, the business development chief for Latin America, Portugal and Spain at COADE. "We're continuing with these in 2009 because we know that plant designers and engineers want to see these plant design tools in person and learn how they will help them improve productivity, eliminate errors and waste, and produce quality deliverables in substantially less time."

Upcoming COADE Discovery Tour events featuring CADWorx Plant Design Suite are scheduled for April 30th in Trinidad and Tobago; May 12th in Buenos Aires; and May 14th in Bahia Blanca, Argentina. Details and registration are available at COADE's website, <http://www.coade.com>.

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Delcam GmbH to Show Latest PartMaker at Turning Days, Germany

16 April 2009

Delcam Germany will demonstrate the latest PartMaker software for the programming of turn-mill machines and Swiss-type lathes at the Turning Days event to be held from 23rd to 25th April. Turning Days is located in Villingen-Schwenningen, in the middle of the turned-parts manufacturing cluster in the Schwarzwald-Baar region and close to Switzerland, the home, of course, of the Swiss-type machine.

The appearance at Turning Days is another step in the drive to repeat in Germany the success that PartMaker has achieved in North America. Many of the leading builders of multi-axis lathes and Swiss-type lathes are based in Germany and Switzerland, while the Schwarzwald-Baar region includes a large number of end-users for the machines.

Visitors to Turning Days this year will see major changes to PartMaker since the launch of the program in Germany at the 2007 event. This reflects the increased investment made in the development of the system following its acquisition by Delcam. Indeed, PartMaker Division President, Hanan Fishman, hailed the release as the largest leap in PartMaker technology in one year since the initial launch of the program in 1994. The key enhancements include a new, more efficient user interface, direct programming onto solid models and automatic creation of set-up sheets.

Sleeker User Interface

The latest release features a sleek, new-look user interface featuring, among other improvements, easy-to-use, user-configurable toolbars. Existing icons have been redesigned to make them even easier to understand. The new tool bars, populated by attractive and easy to understand icons, make the software faster and more productive for both new and existing users.

Seamless Solids Programming

The new version gives users the ability to carry out programming directly on a solid model. Critical manufacturing data is retrieved automatically from a solid model using the software's new "Extract Parameters from Solids" feature, thus saving time and reducing the chance for error by eliminating redundant data entry. The most commonly used solids-manipulation functions are displayed via an easy-to-follow Solids Toolbar.

Automatic Set-up Sheet Creation

Very professional set-up sheets can now be generated automatically to improve shop-floor

documentation. The format of the set-up sheets generated by PartMaker is fully customizable by the user. This new feature can greatly speed up machine set-up time by eliminating the tedious and time-consuming process of creating set-up sheets manually and by providing machine operators and set-up personnel very clear instructions about how to set-up a new job. Set-up sheets are created in HTML format and so can be viewed on any computer with a standard internet browser.

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Delcam to Show Latest Signmaking Software at Sign and Digital

16 April 2009

Delcam will demonstrate the latest versions of its ArtCAM family of software for signmaking at the Sign & Digital exhibition to be held at the NEC, Birmingham, from 28th to 30th April. The range comprises the entry-level version, ArtCAM Express for users new to computer-aided machining, ArtCAM Insignia for production-scale manufacture, and ArtCAM Pro for more complex design and manufacturing. The software can be used for all types of three-dimensional signmaking, including routing of wooden or foam signs, engraving of metal plaques and name-plates, and the production of master patterns for vacuum forming of plastic signs.

The major changes on the design side have been the introduction of new options for sculpting and embossing. The sculpting tools in ArtCAM duplicate in the virtual world the ability to sculpt physical materials but with the added advantage that material can be added as well as taken away. In the new release, they have been made much easier to use and so have become accessible to a much larger number of users

The sculpting functionality has also been enhanced with the addition of a “clone” tool. This allows patterns and textures from one part of a model to be duplicated in another region. It makes it easier to apply a highly-textured or decorative finish to the sign, rather than sandblasting or hand carving.

The new embossing tool allows low-level reliefs that are typically needed for signs to be created from deeper models. The user can move the model into any position to give the desired perspective and then reduce it to the desired height. Even though the height can be reduced significantly, the design will still preserve all the detail and the illusion of depth from the original.

On the machining side, the main emphasis has been on improved strategies for harder materials to enable more efficient and faster engraving of metal signs. In particular, area clearance has been made more robust to allow higher feed rates to be used and rest machining has been made more efficient by improving the ordering of toolpaths.

The machining simulations have been made much more realistic as part of a general improvement in the ability to visualise designs in a variety of materials. This gives users a much better guide to the finished quality of the sign and allows them to check, for example, that the most appropriate size of cutting tool has been used.

Another enhancement across the complete ArtCAM range is the ability to export designs in the 3D pdf format used by the Adobe Acrobat reader. This allows designers to send files to potential customers or retailers in a lightweight form that can be viewed in freely-available software. Other general improvements include auto-recovery of data, for example if there is a power failure to the computer, and the ability to hide options that are rarely used so simplifying the user interface.

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ESPRIT 2009 by DP Technology at the Erie Tool Show, Erie, Penn., April 21-22

14 April 2009

ESPRIT® 2009 will be on display in Erie, Penn., April 21-22, when the latest version of the company's software will be exhibited at the Erie Tool Show, a machinery and tools exposition that focuses on advanced manufacturing.

Guests will be face-to-face with suppliers and representatives from various machining sectors who specialize in making sure that users make the most of their products throughout the manufacturing process.

Among representatives helping visitors streamline their machining processes are those at the ESPRIT exhibit, where personal demonstrations of features available within the newest generation of ESPRIT will take place, and where visitors will be able to speak directly with knowledgeable ESPRIT representatives.

On display will be ESPRIT 2009, which includes a new patent-pending free-form 5-axis composite cycle.

Twenty-two new 5-axis machining strategies have been added to the existing 5-axis functionalities, an upgrade that translates to even greater machining flexibility and improved cycle times. The new patent-pending FreeForm 5-axis composite machining cycle allows users to independently define machining patterns and tool orientation strategies to be used for creating simultaneous 5-axis toolpaths, and includes 20 different machining strategies (cycles) in one — resulting in a wide range of easily manageable possibilities.

For these upgrades and more, be sure to stop by the ESPRIT booth at the Erie Tool Show and see how the newest version of the software can simplify your life.

[ESPRIT](#) is a high-performance computer-aided manufacturing (CAM) system for a full range of machine tool applications. ESPRIT delivers powerful full-spectrum programming for 2–5 axis milling, 2–22 axis turning, 2–5 axis wire EDM, multitasking mill-turn machining and B-axis machine tools, and high-speed 3- and 5-axis machining.

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ESPRIT 2009, by DP Technology, at the Precision Machining Technology Show (PMTS) 2009, Columbus, Ohio, April 28-30

April 16, 2009

DP Technology's ESPRIT® 2009 computer-aided manufacturing (CAM) software will be exhibited April 28-30 at the Precision Machining Technology show (PMTS) 2009, an international event that brings manufacturers, suppliers and end users in the production machining industry together under one roof.

With a focus on the production of precision-machined parts and services, PMTS, slated to take place at the Greater Columbus Convention Center, is a one-stop shop for exposure to the best manufacturers and suppliers in the industry, as well as a vehicle for on-site technical training.

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PMTS participants interested in learning more about the advantages of ESPRIT 2009 are encouraged to visit DP Technology at booth No. 230, where there will be one-on-one demonstrations and presentations of new features, as well as personal attention from DP staff.

Due to its advanced knowledge base machining capabilities, ESPRIT saves time and money by importing solid models, recognizing features on those models and automatically drawing options from a database of machining practices for the machining of those specific features — and for a full range of machine types. The ESPRIT KnowledgeBase user interfaces have been centralized to make it easier to manage all of the data in the database. The single, consistent user interface allows users to access all the data from one central location, such as the processes, materials and cutting tools, and context-sensitive commands are available with a right-click of the mouse.

Using the CAD feature tree inside the ESPRIT CAM system makes the programming process faster because the CNC programmer has a more accurate description of the work piece to be machined.

About ESPRIT

ESPRIT is a high-performance computer-aided manufacturing (CAM) system for a full range of machine tool applications. ESPRIT delivers powerful full-spectrum programming for 2–5 axis milling, 2–22 axis turning, 2–5 axis wire EDM, multitasking mill-turn machining and B-axis machine tools, and high-speed 3- and 5-axis machining.

About DP Technology Corp.

DP Technology maintains its worldwide headquarters in Camarillo, Calif., and product development teams in California; Berlin, Germany, and Florence, Italy. Sales and support operations are located in Europe, Asia, and North and South America. For additional information about DP Technology and ESPRIT, call +1-805-388-6000, send an e-mail to esprit@dptechnology.com, or visit the company Web site at www.dptechnology.com

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ESPRIT 2009, by DP Technology, to be Exhibited at the Lean Manufacturing Expo, Buena Park, Calif., April 22-23

15 April 2009

ESPRIT® 2009 will be exhibited at the Lean Manufacturing Expo in Buena Park, Calif., April 22-23.

Lean manufacturing, a strategy aimed at achieving the shortest possible cycle times by reducing unnecessary tasks, incorporating automation and eliminating waste, leads to higher quality and lower production costs.

Among educational seminars offered at the Lean Manufacturing Expo will be an overview on the principle of lean manufacturing, in addition to those on EDM and Swiss-style machining.

Visitors to the [ESPRIT](#) exhibit will receive firsthand knowledge from ESPRIT representatives, who will be available for questions about time-saving features of the software and will be conducting one-on-one demonstrations of ESPRIT.

Due to its advanced knowledge base machining capabilities, ESPRIT enhances automation capabilities and saves time and money by importing solid models, recognizing features on those models and automatically choosing options from a database of machining practices for the machining of those

specific features — and for a full range of machine types. The ESPRIT KnowledgeBase user interfaces have been centralized to make it easier to manage all of the data in the database. The single, consistent user interface allows users to access all the data from one central location, such as the processes, materials and cutting tools, and context-sensitive commands are available with a right-click of the mouse.

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Gibbs-Mazak Collaboration Extends to Exhibits

14 April 2009

Gibbs and Associates announced that its long-standing collaborative relationship with Mazak Corporation in support of the entire line of Mazak machine tools has led to its recent participation at various Mazak Corporation events. In the last 60 days, Gibbs and its resellers supported the machine tool builder at four major customer events in Mazak Technology Centers in the U.S.A. and Canada and also the TECMA machine tool technology show in Mexico.

"This collaborative relationship has been beneficial to both companies," says Robb Weinstein, Gibbs' Senior VP, Sales and Strategic Planning, "but the largest beneficiaries have been our joint customers. We will continue to support Mazak and their machines to ensure that users of our technologies gain the greatest advantage from both."

For many years, Gibbs and Associates has immediately supported Mazak machine tools as they are released, providing Mazak customers the CNC programming capabilities they need to make the machines quickly productive. Mazak regularly supplies Gibbs the specifications and guidance that enables GibbsCAM to produce and verify the most accurate CNC programs. Gibbs can also create models of machines and components, and incorporate them into GibbsCAM's dynamic machine simulation for an additional level of program prove-out. Verification and simulation reduce on-machine testing and increase safety at the machine.

Gibbs application engineers work closely with Mazak process application engineers at Mazak Technology Centers, worldwide, to validate and perfect GibbsCAM post processors for the configurations and capabilities of Mazak CNC machines. This effort has led GibbsCAM to offer the widest range of post processors for Mazak machines available from any CAM vendor.

GibbsCAM post processors cover Mazak's broad line of vertical and horizontal machining centers, and the simplest to most complex multi-axis, multi-task machines (MTM) with triple turrets and dual spindles, which include the Integrex series, Integrex e series, Multiplex series, Quick Turn series, Super Quadrex, Hyper Quadrex Model 150 MSY, Super Quick Turn and Quick Turn Nexus series, and the VariAxis series. Some key GibbsCAM post processor and other functions for Mazak MTM include:

- Synchronization to optimize turret utilization and cycle times,
- Simultaneous 4- and 5-axis machining,
- Pinch or balanced turning, for simultaneous upper and lower turret work on the same spindle,
- Synchronized milling, for simultaneous milling and drilling with upper and lower turrets on the same spindle,
- Y-axis support on all turrets, and

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- Machine simulation for visual verification and collision detection and avoidance.

At TECMA, in Mexico City, (March 10-13), GibbsCAM was demonstrated continuously in the Mazak exhibit. Demonstrations included beginning-to-end programming and machining of a 3-axis part by Gibbs reseller Manufactura Especializada en CNC. Programming was done with GibbsCAM 2009's Advanced 3D High Speed Machining module, and the part was machined on the Mazak Nexus 510C-II CNC vertical machining center.

At Mazak Technical Center Open House events, Gibbs participation involved live (one-on-one) demonstrations or discussions with Mazak customers, in addition to continuous video demonstrations. At the two-day event, (February 9-10), in Houston, Texas, GibbsCAM technical support and live demonstrations were provided by local Gibbs reseller Texas Offline.

In Chicago, Illinois, Gibbs provided direct support for the three-day Open House (March 17-19), which included the keynote addresses by Brian Papke, Mazak Corporation President. Roger Ablett, Gibbs General Manager, Strategic Partner Program, delivered presentations on using GibbsCAM to improve the productivity of the Mazak Integrex MTM machines. The third day, a Career Day for students from local colleges and high schools, included presentations for those considering careers in manufacturing.

At the Open House at the Toronto Technical Center, April 1-2, Gibbs was assisted by GibbsCAM Reseller handling the Eastern Canadian market.

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Latest GibbsCAM MTM Multi-Task Machining Enhancements Featured at PMTS 2009

13 April 2009

Gibbs and Associates announced that it will demonstrate the latest version of GibbsCAM MTM (Multi-Task Machining) in booth #847, at PMTS 2009 (Precision Machining Technology Show), to be held at the Greater Columbus Convention Center, in Columbus, Ohio, from April 28–30, 2009.

“We look forward to demonstrating the numerous advancements we have made with GibbsCAM,” says Bill Gibbs, founder and president of Gibbs and Associates. “We added extensive lathe features that provide greater efficiency through tool control, and take advantage of newer high-tech cutting tools to turn harder materials and machine smoother surfaces. Perhaps most important to many customers are the results of our continued collaboration with partners and builders of advanced turning and multi-tasking machining centers.”

Among the recently released GibbsCAM MTM features is a new ProXYZ module which enables GibbsCAM MTM users to program thread whirling attachments on Swiss style machines, thereby eliminating the complexity of time consuming, manual code modification at the machine control.

Also, as a result of Gibbs collaboration with Mazak, Mori Seiki and Tornos, the GibbsCAM MTM module now includes features to support the most advanced machines from these partners.

Thread Whirling Module for GibbsCAM MTM Eliminates Difficulty – Sliding Headstock machines with thread-whirling heads provide faster, more productive machining of screws requiring high length-to-diameter ratios, high tapers from root to head, tight tolerances, and burr-free finish, typical of bone screws used in the medical industry. However, thread whirling requires synchronizing the tilting head with the spindle and entering custom thread parameters, easy and efficient to program with this new module, but very complex and time consuming to achieve by modifying code at the control. Because of

CIMdata PLM Industry Summary

the productivity and flexibility of thread whirling heads, these attachments are becoming popular among makers of ball screws, worm shafts and feed screws for other industries. Initial deliveries of the thread whirling module have been made to select customers using Tornos TB-DECO and Marubeni Citizen machines.

MTM Enhancements for Mazak and Mori Seiki – To take advantage of the capabilities offered by the latest machines from these manufacturers, new GibbsCAM MTM features include:

- Synchronization with MTM Synch Manager to optimize turret utilization and cycle times,
- Pinch or balanced turning, to work simultaneously with upper and lower turrets on the same spindle,
- Double or synchronized milling, for simultaneous milling and drilling with upper and lower turrets on the same spindle,
- Y-axis support on all turrets,
- Simultaneous 4- and 5-axis machining,
- Machine simulation for visual verification and collision detection and avoidance, and
- Gang style tool-holder-block support for fixed and live tools in machine simulation.

A GibbsCAM MTM feature added specifically for Mori Seiki machines is the spinning tool, which supports Mori Seiki's simultaneous spinning of part and cutting tool during material removal. In addition to post processors for Mazak machine tools and Mori Seiki machining centers, GibbsCAM post processors now support the Mori Seiki NZ, NT, NL, ZL, DL, SL, and ZT series of turning and MTM centers. Enhancements made specifically for Mazak machines are Flash Tool support and multiple tools in single tool for fast indexing.

GibbsCAM MTM Features Specifically for Tornos TB-DECO Machines – Through a special plug-in developed by Productec S.A. and Tornos S.A., in Switzerland, GibbsCAM MTM now programs all Tornos TB-DECO Swiss style machines. The plug-in enables programming within GibbsCAM MTM, as one would program any part. The GibbsCAM TB-DECO post processor then generates TTFT code, the machine-ready Tornos text file format required by all Tornos TB-DECO. These new capabilities have been certified by Tornos.

General GibbsCAM MTM Enhancements – Among the many new turning features are advanced entries and exits, entry feed rates, enhanced no-drag, clean-up pass, multi-pass plunge roughing, notch ramp roughing, offset contour and tool edge path contour, threading entry and tapping tools, and groove-tool deflection compensation. New additions to Sync Mgr and Op List, and new Op Mgr associativity, make multi-task machining easier and more efficient with the added flexibility.

For more information about GibbsCAM and GibbsCAM MTM software and post processors, or to locate your local GibbsCAM reseller, go to <http://www.GibbsCAM.com>, call 1-800-654-9399, or email info@GibbsCAM.com.

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Oil and Gas Industry to Benefit From ANSYS Successes at Offshore Technology Conference

16 April 2009

ANSYS, Inc. announced that it will showcase its oil and gas industry solutions at the 2009 Offshore

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Technology Conference (OTC). Due to uncertainties and risks in this market, engineers and designers increasingly rely on engineering simulation software in their ongoing exploration and production projects. Solutions from ANSYS assist oil and gas organizations in a broad range of applications, equipment and processes, enabling them to explore fields once considered inaccessible and to develop the technology needed to cost-effectively drill, produce, transport and refine the resources.

OTC is a leading forum for those who develop offshore resources in the fields of drilling, exploration, production and environmental protection. To address the technical and engineering challenges that abound in this industry, ANSYS will highlight the specific and unique capabilities of its portfolio targeted for the oil and gas sector. Product demonstrations and technical staff at the OTC will emphasize ANSYS software features relevant to industry applications, including drilling and well completion, offshore structure safety, oil and gas machinery, riser design, piping, flow assurance, subsea structures, marine applications, sensor and control systems, and signal integrity.

“Software from ANSYS is a valued tool for many in the oil and gas industry. The technology has been used for years to develop innovative products and improve performance and reliability in demanding offshore and subsea applications,” said Ahmad Haidari, director, industry marketing at ANSYS, Inc. “OTC attendees will have the opportunity to put the power of ANSYS to work for them, no matter the application — fluid dynamics, structural, electromagnetic, hydrodynamic or thermal analysis.”

[ANSYS](#) will be at booth 4705 at the OTC, which takes place May 4 to 7 in Houston, Texas, U.S.A.

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Oracle Kicks Off Registration for Oracle OpenWorld® San Francisco 2009

14 April 2009

Oracle OpenWorld® San Francisco 2009 registration is now open, the company announced. Oracle OpenWorld will be held October 11 - 15 at the Moscone Center in San Francisco.

The Keynote lineup is scheduled to include industry leaders and executives from HP, Dell and Oracle among others.

Designed to provide an inclusive and content sharing environment, Oracle OpenWorld will integrate collaboration elements such as Oracle Mix, Oracle's social networking environment, schedule builder, online planner and blogs.

The event will offer more than 1,800 educational sessions on Applications, Database, Industries, Management and Infrastructure and Middleware presented by Oracle product management, partners and customers.

New this year: More customer and partner sessions will be offered through a broad call for papers, allowing attendees to learn directly from their peers. The call for papers is open through April 19.

A special program for our Primavera customers will include more than 70 sessions on Primavera technology.

Attendees will have access to two Exhibition Halls with over 400 partners featuring their latest offerings, more than 300 live product demos in the Oracle DEMOgrounds and dynamic, thought-provoking, and interactive customer and partner breakthroughs showcased at Inside Innovation.

Customers and partners will have the opportunity to meet and hear from their peers with more than 100

CIMdata PLM Industry Summary

user group and SIG meetings and numerous networking functions.

Related Resources

Link to registration page: <http://www.oracle.com/openworld>

Link to call for papers: http://www35.cplan.com/cfp_oow09/CFPLLogin.jsp?wId=638P29

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The MathWorks Shares Expertise on Model-Based Design at SAE World Congress 2009

13 April 2009

Who: [The MathWorks](#) (Booth #1301), a leading developer of software for technical computing and [Model-Based Design](#), and a student team that participated in Challenge X (the predecessor to EcoCAR), a four-year long collegiate advanced vehicle technology engineering competition, established by the United States Department of Energy (DOE) and General Motors.

What: This year's SAE World Congress will feature MathWorks representatives presenting 11 technical articles that highlight the latest advances in Model-Based Design and the supporting products such as those used for verification and validation, signal processing, and physical modeling. In booth #1301, MathWorks engineers will be showcasing how Model-Based Design is applied to AUTOSAR software development, high-integrity systems, automotive safety systems, production ECU projects, as well as the new Vehicle Network Toolbox.

General Motors and representatives from The Ohio State University's Challenge X student team will also present a paper on their use of Model-Based Design and MathWorks tools to aid in their reengineering of a stock Chevy Equinox as part of the Challenge X competition.

Where/When: [SAE World Congress](#), Cobo Center, Detroit, MI, April 20-23, 2009

MathWorks experts will present the following technical papers throughout the conference:

Monday, April 20:

- **“Fixed-Point ECU Code Optimization and Verification with Model-Based Design”** by Thomas Erkkinen, 10:00 a.m. (*Session Code: AE24*).
- **“Optimal Scheduling in Graphical Modeling Environments”** by Michael Burke, 1:30 p.m. (*Session Code: AE24*).
- **“A Verification and Validation Workflow for IEC 61508 Applications”** by Guido Sandmann and Mirko Conrad, 4:00 p.m. (*Session Code: A24*).
- **“Objective Determination of Minimum Engine Mapping Requirements for Optimal SI DIVCP Engine Calibration”** by Peter J. Maloney, 4:30 p.m. (*Session Code: PFL300*).

Tuesday, April 21:

- **“Techniques for Generating and Measuring Production Code Constructs from Controller Models”** by Bill Chou and Saurabh Mahapatra, 8:30 a.m. (*Session Code: AE14*).
- **“Model-Based Design of Fixed-Point Digital Filters for Embedded Systems”** by Mark Corless and Arvind Ananthan, 9:30 a.m. (*Session Code: AE14*).
- **“Methods for Interfacing Common Utility Services in Simulink Models used for Production**

CIMdata PLM Industry Summary

Code Generation” by Jeffrey M. Thate and Robert Kagy of Caterpillar Inc., Robyn Jack, Roger Theyyunni, and Jagadish Gattu of The MathWorks, 10:30 a.m. (*Session Code: AE14*).

Wednesday, April 22:

- **“Robust Design of Control Systems with Physical System Variances”** by Tom Egel, 3:00 p.m. (*Session Code: AE15*).
- **“Real Time Simulation using Non-causal Physical Models”** by Tom Egel, 4:00 p.m. (*Session Code: PFL304*).

Thursday, April 23:

- **“Parameterization of a Battery Simulation Model Using Numerical Optimization Methods”** by Robyn Jackey of The MathWorks, Gregory Plett of the University of Colorado at Colorado Springs, and Martin Klein of Compact Power Inc., 8:30 a.m. (*Session Code: PFL104*).
- **“Adoption of Modeling Standards as a Part of Enterprise Wide Deployment”** by Michael Burke and Mirko Conrad, 9:30 a.m. (*Session Code: AE10*).

Representatives from GM and engineering students from Ohio State University participating in the Challenge X and EcoCAR programs will present their technical paper **“Application of Model-Based Design for the Control Development and Optimization of a Hybrid-Electric Vehicle”** on Monday, April 20 at 9:30 a.m. (*Session Code: PFL302*).

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Webcast: Optimizing Product Development Processes from Formula 1 to Aerostructures

April 2009

Join VISTAGY on Thursday, April 30

11:00 ET / 08:00 PT / 16:00GMT/UTC

Title: Optimizing Product Development Processes from Formula 1 to Aerostructures

Date: Thursday, April 30

Time: 11:00 EST / 08:00 PST / 16:00 GMT/UTC

Who Should Attend

- Aircraft OEMs and Suppliers • Process Improvement Managers
- Program Directors • Structural Analysts
- Design Engineers • Manufacturing Engineers

Featured Speakers

Ian Goddard

Senior CAE Engineer

ING Renault F1 Team

[Read bio](#)

Andy Hall

Technical Consultant

VISTAGY, Inc.

[Read bio](#)

Ian Goddard, Senior CAE Engineer for ING Renault F1 Team, has used VISTAGY software, consulting and implementation services to enable his team to streamline its composites design-to-manufacturing processes. Unlike the aerospace industry, ING Renault F1 Team endeavors to keep all four tires on the ground. Like the aerospace industry, ING Renault F1 Team is under intense pressure to deliver high performance composite components and assemblies on time and on budget.

Join Mr. Goddard and VISTAGY technical consultant Andy Hall for a thought-provoking presentation that illustrates the importance of how effective partnering can maximize results.

In this Webcast you will learn:

How a process assessment made early on can affect the long term success of a program

How the influence of Subject Matter Experts can increase overall efficiency in both design and manufacturing

The value of working with engineers who possess a thorough understanding of the assembly of composite airframes

How to plan for, accommodate and track engineering changes in order to remain in control of the design and deliver it on time and on budget

The importance of developing design methodologies that are specific to the type of parts being designed

The importance of devising a process that allows the re-use of data throughout the enterprise

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Financial News

ANSYS, Inc. to Release First Quarter 2009 Earnings May 7, 2009

15 April 2009

ANSYS, Inc. announced it expects to release its first quarter 2009 earnings on Thursday, May 7, 2009. The Company will hold a conference call conducted by James E. Cashman III, president and chief executive officer, and Maria T. Shields, chief financial officer, at 10:30 a.m. Eastern Time to discuss first quarter results and future outlook.

Conference Call Information:

What: ANSYS First Quarter 2009 Earnings Conference Call

When: May 7, 2009 at 10:30 a.m. Eastern Time

Where: <http://www.ansys.com/corporate/investors.asp>

The conference call dial in number is 888-661-5182 (US & CAN) or 913-981-5580 (INT'L)

Passcode: ANSYS (26797)

The call will be recorded with replay at 888-203-1112 (US & CAN) or 719-457-0820 (INT'L)

Passcode: ANSYS (26797)

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Cadence Announces First Quarter 2009 Financial Results Webcast

10 April 2009

WHO:

Cadence Design Systems, Inc. to announce first quarter 2009 financial results via webcast.

WHAT:

You are invited to attend the first quarter 2009 financial results audio webcast. Participating on the webcast will be Lip-Bu Tan, president and chief executive officer, and Kevin S. Palatnik, senior vice president and chief financial officer.

WHEN:

The webcast will begin Wednesday, Apr. 29, 2009 at 2 p.m. (Pacific)/5 p.m. (Eastern). An archive of the webcast will be available from 5 p.m. (Pacific) Apr. 29 until 5 p.m. (Pacific) May 6.

WHERE:

The webcast will be available online at: http://www.cadence.com/cadence/investor_relations.

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DS Releases Preliminary First Quarter 2009 Financial Results

16 April 2009

- EPS and margin in line with DS objectives
- Non-IFRS total revenue increased 1% as reported compared to Q108, 6% below DS objectives
- DS expands fiscal year cost reduction initiatives

Dassault Systemes ([DS](#)) released preliminary unaudited non-IFRS financial results for the first quarter ended March 31, 2009. DS will hold a conference call today to discuss preliminary results at 1:00 PM London/2:00 PM CET/8:00 AM New York as described further below.

The preliminary and unaudited non-IFRS financial information which follows is based upon initial closing information and is subject to further review. Non-IFRS revenue excludes deferred revenue write-downs; non-IFRS EPS and non-IFRS operating margin also exclude deferred revenue write-downs as well as stock-based compensation expense, amortization of acquired intangibles and other income and expense, net and non-IFRS EPS also reflects the net tax effects related to the items excluded herein.

Preliminary and Unaudited 2009 First Quarter non-IFRS Financial Information

Non-IFRS total revenue is estimated at about €310 million (1% reported growth compared to Q108) approximately 6% below DS non-IFRS total revenue objective of about €25 to €35 million.

Average exchange rates of US\$1.30 per €1.00 and JPY122 to €1.00 closely tracked to currency assumptions used by DS to develop its first quarter objectives.

Non-IFRS EPS is estimated at about €0.37, in line with DS non-IFRS EPS objective of about €0.36 to

CIMdata PLM Industry Summary

€0.42. Preliminary non-IFRS operating margin is estimated at about 19%, also in line with DS non-IFRS objective of 18% to 21%.

DS was able to drive in excess of €15 million of additional savings during the quarter compared to its former goal.

DS targets an additional €80 to €90 million of incremental savings for 2009 compared to its former goal.

Non-IFRS total revenue decreased approximately 6% in constant currencies. Non-IFRS software revenue decreased an estimated 5%, with new licenses decreasing about 40% and recurring software revenue increasing about 15%, with all figures in constant currencies.

For the 2008 first quarter, non-IFRS total revenue was €307.9 million, non-IFRS operating margin was 22.8% and non-IFRS earnings per diluted share totaled €0.41.

Bernard Charlès, Dassault Systemes President and Chief Executive Officer, commented, *“Our non-IFRS total revenue grew a modest 1% year-over-year, as the business environment, as measured by various economic data, weakened further during the first quarter in comparison to the fourth quarter of 2008. This change was evident across our market segments and brands and caused our revenue to be below our objective by 6%.*

“However, thanks to our cost containment measures, preliminary earnings and margin results for the 2009 first quarter were in line with our objectives. In view of the changes in the market and consistent with our priorities, we are targeting an additional €80 to €90 million of incremental savings for the year 2009 compared to our former goal.

“These enhanced savings will be achieved while maintaining our operating capacity in order to serve and support our customers, as well as sales and software partners while sustaining our strategic R&D initiatives.”

Today’s Conference Call Information

Dassault Systemes will host a conference call today, Thursday, April 16, 2009 at 1:00 PM London/2:00 PM CET/8:00 AM New York. The dial-in numbers for the conference call are as follows: callers within Europe as well as other international callers may dial +44 (0) 1452 569 393, and callers within the U.S. may dial: +1 866 434 1089 A replay of the conference call will be available by dialing +44 (0) 1452 550 000, access code 95442454. Additionally, the conference call will be available via the Internet by accessing <http://www.3ds.com/company/finance>.

The Company will return to its pre-release quiet period beginning Monday, April 20, 2009 and will have no further comments on its financial results until it releases its full first quarter financial results on Thursday, April 30, 2009.

Information in Constant Currencies

When the Company believes it would be helpful for understanding trends in its business, the Company provides percentage increases or decreases in its revenue (on a non-IFRS basis) to eliminate the effect of changes in currency values, particularly the U.S. dollar (US\$) and the Japanese yen (JPY), relative to the euro. When trend information is expressed herein "in constant currencies", the results of the "current" period have first been recalculated using the average exchange rates of the comparable period in the preceding year, and then compared with the results of the comparable period in the preceding year. First quarter average exchange rates: US\$1.30 per €1.00 and JPY122 to €1.00 for the 2009 first quarter, compared to US\$1.50 per €1.00 and JPY158 to €1.00 for the 2008 first quarter.

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Cautionary Statement Regarding Preliminary Non-IFRS Financial Information

The above statements contain estimates of the Company's non-IFRS 2009 first quarter financial information. The Company is continuing to review its financial and operating results, and actual results may differ materially from those contained herein based on further review, any additional accounting adjustments and other factors.

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MSC.Software to Report First Quarter Financial Results and Hold Conference Call on May 7, 2009

14 April 2009

MSC.Software Corporation announced that it will host a conference call to discuss first quarter financial results on Thursday, May 7, 2009 at 1:30 pm Pacific (4:30 pm Eastern). The earnings press release will be issued at the market close on May 7, 2009.

The first quarter conference call will include a slide presentation that can be downloaded at: <http://www.mscsoftware.com/ir/>. The conference call can be accessed by web cast at: <http://www.mscsoftware.com/ir/> or by dialing in to (800) 374-0151 for US callers, or (706) 634-4981 for international callers. To participate in the live conference call, use the following conference ID code # 95466282.

An archived version of the conference call will be available at <http://www.mscsoftware.com/ir/>. The teleconference replay will be available for 48 hours and can be accessed by dialing in to: U.S. (800) 642-1687 or Intl. (706) 645-9291 using the conference ID code # 95466282.

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PTC to Announce Fiscal Q2 Results on Tuesday, April 28th and Host Conference Call on Wednesday, April 29th at 8:30 am ET

15 April 2009

PTC announced that it will release its fiscal 2009 second quarter results on Tuesday, April 28th after the stock market closes. Senior management will host a live webcast and conference call to review the results on Wednesday, April 29th at 8:30 am Eastern Time. The earnings press release and accompanying prepared remarks document and financial and operating statistics will be accessible prior to the conference call and webcast on the investor relations section Company's web site at <http://www.ptc.com>.

What: PTC Fiscal Q2 Conference Call and Webcast

When: Wednesday, April 29, 2009 at 8:30 a.m. Eastern Time

Dial-in: 1-888-566-8560 or 1-517-623-4768

Call Leader: Richard Harrison

Passcode: PTC

Webcast: <http://www.ptc.com/for/investors.htm>

Replay: The audio replay of this event will be archived for public replay until 4:00 pm (CT) on May 4, 2009 at 1-888-568-0858 or 1-402-998-0243. To access the replay via webcast, please visit

<http://www.ptc.com/for/investors.htm>.

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Implementation Investments

American Wave Machines Inc. Uses PTC CoCreate to Design the World's First Standing Wave Surf Machine

14 April 2009

PTC® announced that American Wave Machines Inc. ([AWM](#)), an innovator in artificial wave technology, is using PTC® CoCreate® to design SurfStream®, the world's first standing wave surf machine, a technology breakthrough for the water park industry. AWM's patented SurfStream delivers real surfing and wave riding capabilities for hotels, resorts, water parks, and sports exhibitions. CoCreate is the explicit 3D CAD modeling software that provides companies with a lightweight and flexible approach to designing products.

In 2006, SurfStream burst onto the water park scene revolutionizing the wave machine. Since then, AWM has acquired contracts to design hydraulics wave machines using SurfStream technology for clients around the world. With this growth came a demand for presenting concepts and designs to prospective clients in 3D. Many projects require some degree of design customization and as a result, clients want the ability to see how a custom-built wave machine would fit into their establishment. AWM is using CoCreate's explicit 3D modeling tools to provide customers with the virtual 3D prototyping and visualizations they require while giving AWM the flexibility to scale custom SurfStream models to fit the dimensions of each hotel, resort, water park and sports exhibition.

"Almost everything we create must be built by people who use 2D prints as the reference information," said Bruce McFarland, president of AWM. "CoCreate is used to design the system in 3D solids models from our parts and from the water park designer's desired layout. One of the best things about CoCreate is in the reduction of design to manufacture time it affords. Constraint-free design is my absolute number one favorite feature. I can modify a design and reissue prints in a matter of hours." In addition, the use of CoCreate 3D explicit modeling offers AWM clients 3D visual confirmation, which provides images that can be incorporated in marketing, manuals, and design reviews.

"PTC CoCreate Modeling software delivers the flexibility for 'engineered-to-order' products that American Wave Machines produces for its customers," said Martin Neumueller, CoCreate product management director, [PTC](#). "CoCreate's explicit approach to 3D design delivers faster design cycles in the design process for companies like American Wave Machines. We look forward to continue working with them."

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Aston Martin Chooses STAR-CCM+ for Vehicle Aerodynamics and Thermal Management

15 April 2009

CD-adapco announced that Aston Martin, the British manufacturer of prestige luxury sports cars, will use STAR-CCM+, CD-adapco's CFD simulation tool, for the simulation of aerodynamics and vehicle thermal management.

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Dr Richard Johns, CD-adapco's Director for the Automotive Industry is excited to be associated with one of the world's most prestigious automotive marques: "Aston Martin has always been defined by the combination of creativity and manufacturing discipline. STAR-CCM+, through its automated simulation process, allows design engineers to rapidly explore entire design spaces, providing technical insight and generating creative enthusiasm."

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IHI Corporation Selects ANSYS Quality Assurance Services for Development of Nuclear Equipment

14 April 2009

ANSYS, Inc. announced that the nuclear power division of IHI Corporation, a major Japanese heavy equipment manufacturer, has selected ANSYS Quality Assurance (QA) services for its development of nuclear equipment. A customer of ANSYS for over 20 years, IHI chose to incorporate complete ANSYS QA services in an effort to make its overseas operations more effective.

The [ANSYS](#) quality system meets the requirements of ISO 9001:2008, the internationally accepted quality standard for software, and United States Nuclear Regulatory Commission (NRC) rules and regulations, which set forth some of the most stringent software quality standards around the globe. Beyond software quality, world-class engineering simulation technology from ANSYS enables organizations in the nuclear industry to produce safer, more reliable and high-quality equipment. IHI contributes to the stable supply of electricity by providing primary equipment for thermal and nuclear power generation systems. The company has accelerated its overseas operations, strategically investing in Toshiba's recent acquisition of BNFL USA Group, Inc. and Westinghouse Electric UK Limited. With over 150 years' experience, IHI also has a broad business domain that includes shipbuilding, aircraft jet engine and manufacturing machinery.

In North America, which is one of IHI's major export markets, all nuclear power equipment is required to meet stringent quality regulations established by the NRC along with consensus standards administered by the American Society of Mechanical Engineers (ASME), such as NQA-1. The regulations cover every aspect of the development process, from design and testing to quality assurance of the software codes that are used to validate the reliability of products. IHI now uses ANSYS QA services to satisfy quality assurance regulations for the structural analysis of nuclear equipment, such as pressure vessels. IHI also expects to enhance the reliability of the simulation code and to minimize its maintenance cost by utilizing ANSYS QA services.

"The quality of software programs that are used for the design validation or the operation of nuclear equipment is now more critical than ever before. As software enables the ability to solve more complex problems, its quality assurance requires greater human resources, including IT experts in this domain. It is highly advantageous for our company to use the QA services of ANSYS, literally the expert group of engineering simulation software programs in this industry," commented Mr. Miyaguchi of IHI Corporation.

Because of the strict regulatory requirements of the nuclear industry, IHI intends to use the combined expertise of software and QA services from ANSYS to optimize products the manufacturer develops for the nuclear equipment marketplace.

"Technology from ANSYS has a long history in the area of safety analysis, having been used in the nuclear industry as far back as the 1970s," said Jim Cashman, president and CEO at ANSYS, Inc. "We've always been deeply aware of the importance of software quality assurance. To that end, ANSYS

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was the first engineering simulation software to become ISO 9001 certified. In conjunction with IHI and other key customers in this important and evolving industry, we will continue our efforts to contribute to the development of safer and cleaner nuclear energy technologies.”

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Leading European metals and mining company signs services contract for implementing IFS Applications

April 16, 2009

Within the framework of the project, which is currently being implemented, [IFS](#) will provide additional consulting services and IFS Applications licenses with an expected total value exceeding US \$ 3 million. The initial contract was signed in 2007.

The process industry is one of IFS' seven targeted markets. IFS provides industry-specific functionality for enterprises in the metals, pulp and paper, food and beverage, and chemicals segments. IFS Applications for the process industry provides support for all critical business processes, including reliability-centered maintenance (RCM), overall equipment effectiveness (OEE), plant design, maintenance management, standardized real-time automation integration, order handling, manufacturing management, quality management, and demand planning. The application suite includes a complete asset and product lifecycle management solution.

IFS customers in the metals industry include Hutmen S.A., SSAB, WM Dzierzice S.A., Zlomrex S.A., Nucor Corp., Elkem AS, and Surahammars Bruk. Other IFS process industry customers include Holmen Paper, SCA Graphics, Pepsi, Iams, V&S Absolut Spirits, DuPont, Flint Group, Willamette Valley Co., Becker Industrial Coatings, Jotun, Sniezka S.A., and Dyrup.

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NXP Adopts Mentor Graphics' Veloce Hardware Emulator to Accelerate Time-to-Market for Their HDTV and Set-Top-Box Chip Sets

15 April 2009

[Mentor Graphics Corp.](#) announced that NXP, the independent semiconductor company founded by Philips, has adopted the Veloce® platform for the complete system-level verification of its next generation of digital Systems-on-Chip (SoC) for High-Definition TV (HDTV) and Set-Top-Box (STB).

NXP chose Veloce due to its superior debug capabilities, performance, accuracy, and extensive portfolio of iSolve™ vertical market solutions for the verification of digital standards associated with HDTV and STB.

“NXP continues to drive system-level integration to provide advanced solutions to our customer,” said Shanthi Padmanabhan, vice president and innovation and technology manager of the home business unit, NXP Semiconductors. “Pre- and post-silicon testing of our SoCs requires a massive number of verification cycles to validate functionality and avoid design flaws. The use of Veloce for hardware-assisted verification has played an important role for NXP to achieve high speed verification and testing required. This ultimately enables us to beat our tight schedules in a highly competitive market. NXP is the first to introduce a global single chip digital TV platform on 45nm, TV550, which enables high-end TV features in mainstream TVs.”

CIMdata PLM Industry Summary

The Veloce platform is a fast dual-mode Accelerator/Emulator, providing MHz performance for both transaction-based verification and traditional in-circuit emulation (ICE). With an extensive portfolio of vertical market solutions, the Veloce platform is the platform of choice for multimedia, networking, wireless, and embedded systems applications.

“We have worked closely with NXP for many years to provide the best possible emulation solution that meets NXP’s needs and addresses the verification challenges faced in HDTV and HD-STB designs,” said Eric Seloche, Mentor Emulation Division vice president and general manager. “We are delighted that NXP continues to benefit from our latest-generation, hardware-assisted verification solutions, and that they have been so successful with the latest emulation solutions in a series of digital TV and STB SoC designs. With the use of Veloce at NXP for hardware-assisted verification, we have shown the value of our technology and support to NXP.”

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Organogenesis, Inc. Selects Pilgrim Software’s ECQM Platform to Manage Key Compliance & Quality Systems

15 April 2009

[Pilgrim Software, Inc.](#), a global provider of Enterprise Compliance and Quality Management (ECQM) software solutions, announced that regenerative medicine leader [Organogenesis, Inc.](#) has selected Pilgrim Software’s ECQM platform to manage its key compliance and quality systems across the company, and to allow for data interoperability between its other existing automated corporate management systems.

Regenerative medicine is a revolutionary and rapidly developing field of medicine that applies living cells and cellular matrixes as therapies to restore the structure and function of damaged tissues and organs in order to treat multiple diseases. Organogenesis was the first company to successfully commercialize and mass produce living regenerative medicine products – reaching hundreds of thousands of patients in the U.S. and around the world.

Organogenesis plans to upgrade its internal quality and compliance operations by implementing Pilgrim’s fully integrated solution across the enterprise. The company will implement a range of SmartSolve® solutions including software components for [documentation](#), [audits](#) and [training](#).

“The field of regenerative medicine is complex, and commercialization sometimes includes the mass manufacture and distribution of living tissue ‘on demand’,” said Gary Gillheeny, Chief Operating Officer and Chief Financial Officer of Organogenesis, Inc. “We have rigorous standards, and wanted to implement a world-class quality management and compliance system. We selected Pilgrim’s ECQM platform because it is an intuitive solution that will be easy to [implement](#), it meets our total quality systems needs and will help streamline our processes. We believe that Pilgrim will be an excellent partner, and we look forward to working with them.”

“We offer our customers a world-leading solution to compliance and quality management that not only addresses core ECQM requirements, but [integrates](#) with other automated corporate software such as ERP systems, to provide companies an operationally competitive advantage and a head start in making a real footprint in the advancement of their industries,” said Prashanth Rajendran, Pilgrim’s Chief Operating Officer.

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Priva Technologies Integrates Synopsys Galaxy Custom Designer Solution Into SoC Design Flow

13 April 2009

[Synopsys, Inc.](#) announced that Priva Technologies, Inc. has adopted Synopsys' Galaxy Custom Designer™ custom implementation solution to design its next-generation security system-on-chip (SoC) integrated circuits (ICs). As a supplier of advanced authentication technologies and transaction processing solutions that integrate high-performance processing, biometric interfaces, tamper-resistant design, and wireless communication, Priva needed a modern-era analog/mixed-signal (AMS) design solution that could integrate into its SoC design flow and offer productivity enhancements.

"To increase productivity on our next-generation IC designs, we needed a modern AMS solution with the flexibility to easily integrate into our security-based SoC design flow," said Jeff Berkman, CTO for Priva Technologies. "Migrating our legacy data into Custom Designer was fast and accurate. The design team found using Custom Designer to be intuitive to use and quickly started taking advantage of the enhanced feature set."

Built from the ground up, Custom Designer was architected for productivity. Key modules include a schematic editor featuring on-canvas editing and dynamic net highlighting. The simulation environment provides a common use model allowing access to Synopsys simulators, including the HSPICE® and CustomSim™ circuit simulation solutions and the WaveView Analyzer tool. The layout editor features a real-time preview of P-cell parameter changes, and the results from Synopsys' Hercules™ DRC/LVS and Star-RCXT™ parasitic extraction tools are dynamically available within Custom Designer. In addition, Custom Designer enables complete data transparency with Synopsys' IC Compiler physical implementation solution, allowing the exchange of vital information during floorplanning, placement, routing and final chip editing to reduce time-consuming design iterations.

"We are working closely with companies like Priva to enable them to leverage Custom Designer's full range of capabilities to achieve higher performance and productivity, and to help them realize a competitive advantage," said Bijan Kiani, vice president of Product Marketing at Synopsys. "Priva's successful deployment of Custom Designer in their design flow underscores Synopsys' commitment to help designers address AMS design challenges with efficiency."

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PTC Delivers Enterprise PLM Solution to Force Protection, Inc. for Faster Product Innovation

13 April 2009

PTC announced that [Force Protection, Inc.](#), a leading American designer, developer and manufacturer of ballistic and blast-protected vehicles used to support the armed forces, has standardized on PTC Windchill® as its platform for product development content and process management. With Windchill, a core component of the PTC® Product Development System, Force Protection will have the ability to increase process transparency and collaboration with its suppliers, partners and customers to drive faster product innovation in the ballistic vehicle space.

Like many defense manufacturers, Force Protection has a paramount task: develop innovative technology to save the lives of military personnel. Additionally, the company's environment is characterized by a complex supply chain and the need to comply with numerous government regulations. The company required a PLM solution that would enable enterprise-wide collaboration, with complete traceability throughout the product development lifecycle with the aim of providing

CIMdata PLM Industry Summary

increased visibility to decision-makers.

[PTC](#) Windchill was selected as the enterprise PLM solution after an extensive technical benchmark against other large PLM solution providers. With Windchill, Force Protection will be able to better align with the United States Army and other key suppliers so they can improve cost-estimating capabilities to remain cost competitive, drive faster design cycles to deliver next-generation, innovative vehicles and accelerate time to market of its expanding line of vehicles.

“Force Protection continually evaluates technology solutions that can help advance our competitive edge by helping us bring higher quality products to market in shorter timeframes,” said Mark Edwards, executive vice president of development, Force Protection, Inc. “As a company, we are always pushing the limits of our technology solutions. The PTC Product Development System offers a comprehensive set of capabilities that meets our most critical and dynamic product development requirements.”

“Organizations that experience rapid, significant growth like Force Protection realize the critical importance of having a single, integral technology platform for product development,” said C. Richard Harrison, chairman and chief executive officer, PTC. “Force Protection standardized on PTC software because it was the best technology to help drive productivity and efficiencies in product development and will enable Force Protection to focus on creating products that save lives. We look forward to continue helping Force Protection realize the value that the PTC Product Development System can bring to their business.”

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Sequence PowerArtist Slashes Power, Significantly Increases Productivity at Ubicom

14 April 2009

[Ubicom](#)®, Inc. has announced it is using Sequence Design’s PowerArtist for reducing power in its most advanced designs while increasing the RTL designer’s productivity an order of magnitude.

“Ubicom’s solutions are power efficient while delivering high performance, and we were looking to further enhance our power reduction methodology. After evaluating available RTL power reduction tools we decided to license PowerArtist, and believe it will greatly increase our productivity by identifying the highest power saving opportunities at RTL in minutes, on blocks several hundred instances in size,” said Jon Gibbons, Ubicom Vice President of VLSI Engineering. “Since PowerArtist utilizes proven RTL power analysis technology to predict power savings – we have validated results through synthesis – it enables us to make power decisions upfront at RTL. A further benefit is Sequence’s PowerCanvas GUI, which we find is unparalleled in versatility and ease of use, giving designers an intuitive method for understanding and reducing power.”

Built upon the foundation of [Sequence](#) RTL DFP (Design For Power™) accurate power analysis technology and Open Access Database, PowerArtist reduces power by 10% to 50% or more at RTL where designers have maximum opportunities for power reduction. With comprehensive techniques focusing on trimming power in three key areas – Clock, Memory, and Datapath – the power savings are over and above those achieved during synthesis. Enhancing the RTL designer’s productivity by 10X, the next-generation engines examine the RTL code, prioritize highest power saving opportunities, and generate power-optimized RTL automatically or guide the user through manual edits within a powerful graphical environment, called PowerCanvas™.

“Companies like Ubicom are prime examples of why PowerArtist is succeeding in the low-power design

CIMdata PLM Industry Summary

market worldwide, showing repeatable, quantifiable, and easily achievable power reductions,” said Sequence President and CEO Vic Kulkarni. “Sequence RTL power solutions provide our customers with the lead in competing for power.”

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Synopsys PrimeTime Advanced On-chip Variation Analysis Enables Renesas to Accelerate Timing Closure at 65-nm and Below

14 April 2009

[Synopsys, Inc.](#) announced that Renesas Technology Corp. has deployed Synopsys' PrimeTime® advanced on-chip variation (OCV) capability to help accelerate timing closure for 65-nanometer (nm) and below system-on-chip (SoC) designs. PrimeTime advanced OCV analysis is an efficient, easy-to-adopt solution that employs adaptive derating to accurately account for random and systematic process variations across an integrated circuit (IC). This evolutionary approach brings the margin reduction benefits of variation-aware modeling to a broader range of customers and process technologies by eliminating the need to change libraries or significantly modify design flows. PrimeTime advanced OCV has been correlated to silicon at leading semiconductor companies including Renesas, qualified and recommended by the STARC Japanese semiconductor consortium, and is part of the stage-based on-chip variation solution in the TSMC Reference Flow 9.0.

"During a recent 45-nanometer tapeout, using the PrimeTime advanced OCV feature helped us achieve a 5X reduction in the number of timing violations we needed to analyze and fix, saving us a significant amount of schedule time," said Hitoshi Sugihara, department manager of the DFM & Digital EDA Technology Development Dept., Design Technology Div., Renesas Technology. "We collaborated with Synopsys early in the development of this methodology to ensure it was easy to deploy, and have confirmed its signoff accuracy versus both HSPICE Monte-Carlo (or statistical) simulation and actual silicon. The PrimeTime advanced OCV capability is now deployed as a standard part of our timing signoff flows at 65 nanometers and below."

Synopsys' PrimeTime advanced OCV technology provides more finely-tuned design margins in timing analysis by incorporating logic-depth information to determine path-specific and cell-specific margin values. Using simple derate tables to complement the global derate methodology that has been used for many years to account for on-chip variation allows PrimeTime customers to take advantage of the more finely-tuned design margins with minimal changes to existing timing signoff scripts. The PrimeTime advanced OCV capability is part of a comprehensive set of variation-aware design solutions offered by Synopsys that also includes the PrimeTime VX statistical static timing analysis (SSTA) tool. While mainstream designs can readily take advantage of the PrimeTime advanced OCV solution, the PrimeTime VX solution provides further benefits for high-performance designs targeting advanced process technology nodes.

"The industry has welcomed PrimeTime's advanced OCV capability based on ease of adoption and effectiveness in accurately modeling on-chip variations," said Ahsan Bootehsaz, vice president of Research and Development, Synopsys Implementation Group. "By closely collaborating with leading semiconductor companies such as Renesas, we continue to bring innovative features to PrimeTime to help companies address their immediate design challenges, significantly boosting their designers' productivity."

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USANA Health Sciences Goes Live on Oracle's Agile Product Lifecycle Management

6 April 2009

[USANA Health Sciences](#), a Salt Lake City, Utah-based developer and manufacturer of high-quality nutritionals, personal care and weight management products, has implemented Oracle's Agile Product Lifecycle Management (PLM) to create an automated and integrated document control routing system that helps to accelerate product development, ensure product quality and facilitate compliance with industry standards and regulations.

USANA expects to see a 60 to 70 percent improvement in the efficiency of its validation and document control process with the new system, which will support more rapid introduction of new products.

With Agile PLM, USANA looks to improve the efficiency of product development and validation by reducing paperwork, improving process flows, and automating document routing, authorization and control.

The product also strengthens USANA's validation capabilities, helping to ensure that the individual ingredients of the company's products are of the highest quality.

Although its products are not regulated by the U.S. Food and Drug Administration (FDA), USANA voluntarily meets many FDA and international standards as part of its commitment to quality. Oracle's Agile PLM provides USANA with the consistent documentation and extensive validation capabilities required to achieve compliance with U.S. and international regulations.

USANA can now streamline receipt of product development and testing, supply chain, manufacturing and compliance input and documents from multiple sources and automatically route this information to the appropriate internal parties. The company anticipates that these capabilities will facilitate communication and collaboration and translate into significant time and money savings.

USANA's Agile PLM implementation builds on the company's existing Oracle-based application infrastructure, which includes Oracle's Demantra as well as the Oracle® E-Business Suite applications for manufacturing, human resources and financial management. The company is in the process of upgrading to the Oracle E-Business Suite Release 12.

USANA implemented Agile PLM throughout the global company's locations across 13 countries.

Supporting Quote

"Oracle's Agile Product Lifecycle Management provides us with robust functionality that enables us to more efficiently ensure the quality of our products as well as our voluntary compliance to U.S. FDA and other international standards. As important, we see it as a powerful tool that will help us to drive innovation and time to market through process automation and condensed cycle times," said Gary Carter, Director, Enterprise Resource Planning, USANA Health Sciences.

Supporting Resources

[Oracle's Agile Product Lifecycle Management Solutions](#)

[Oracle Delivers New Capabilities in Oracle's Agile Product Lifecycle Management \(PLM\) Furthering its Leadership in Enterprise PLM](#)

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Product News

Akoya Announces Launch of Design Workbench Product Suite

April 17, 2009

[Akoya Inc.](#) announces the latest release of its Design Workbench Product Suite, which helps product designers in heavy equipment, automotive, aerospace and defense companies develop more cost competitive products and increase profits in new product introductions by up to 15 percent.

The Design Workbench provides significant advancements in lean product development practices by giving companies immediate insight into more cost-effective designs. It does this by determining the Competitive Band - the most efficient price range in which a manufacturer can acquire a product component in the market from an effective producer - for any combination of design variables. The result is quicker time-to-market by eliminating cross-functional bottlenecks and lower product costs by improving design cost visibility across product platforms.

In the Competitive Banding process, Akoya accumulates a manufacturers' current purchase price, production and detailed component attributes, applies advanced information science and analytics to evaluate competitive drivers, and determines the actions required to achieve a more competitive cost for the product components.

"We have seen that 80 percent of the design cycle can be spent re-working a product to meet cost parameters because they were not known when the critical design decisions were made," said Brett Holland, Akoya's president. "With Akoya's Design Workbench, designs can be evaluated for cost-effectiveness at any time, from concept through production. Additionally, the Competitive Banding information we use promotes more effective dialog between product design, supply management and manufacturing."

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Autodesk Developer Network Supports 2010 Software Portfolio for Design

14 April 2009

[Autodesk, Inc.](#), a leader in 2D and [3D design](#) and engineering software for the manufacturing, building and construction, and media and entertainment markets, announced that more than 300 members of its [Autodesk Developer Network](#) (ADN) are now shipping products and applications compatible with the Autodesk 2010 product family including [AutoCAD 2010](#), [Autodesk Revit Architecture 2010](#), [AutoCAD Civil 3D 2010](#) and [Autodesk Inventor 2010](#) software. More than 600 specialized products developed on Autodesk design software for niche markets are currently available from ADN members who are providing Autodesk customers around the world with the ability to more efficiently create innovative and sustainable designs, increasing their return on investment in Autodesk technology.

"Our development partners make it possible for engineers, architects and designers worldwide to maximize their productivity, efficiency and gain an even greater competitive advantage," said Jim Quanci, Director, Autodesk Developer Network. "By providing our ADN members with extensive business, software and support, as well as access to millions of potential customers and our sales partners around the world, we make it possible for ADN members to grow their business as they help our joint customers be more competitive."

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In developing industry-tailored applications based on Autodesk's 2D and 3D digital design technology, the Autodesk Developer Network comprises more than 3,300 third-party software developers. Just a few of the many members of the Autodesk Developer Network now supporting Autodesk's 2010 software include:

3 AM - UK

Autodesk Product Supported: AutoCAD Civil 3D 2010

www.3am-solutions.com/

3 AM develops visualization software for the civil engineering industry. Their products are used by many of the world's leading civil engineering consultants and government agencies. The company's flagship product, Dynamite VSP, is designed specifically to enable civil engineers to produce rich and compelling rendered visualizations of their projects with little prior knowledge of 3D visualization techniques.

AKG - Germany

Autodesk Product Supported: AutoCAD 2010

www.akgcivil.com/

AKG is a leader in highway design software in Europe. Their flagship product VESTRA has been used to design numerous highways and high speed train routes in Europe - including the German Autobahn.

Blue Ridge Numerics - USA

Autodesk Product Supported: Autodesk Inventor 2010

www.cfdesign.com

Blue Ridge Numerics is a leader in the development of CFD (Computational Fluid Dynamics) simulation tools with their flagship CFdesign software. CFdesign provides engineers a fully integrated and certified digital prototyping solution for solving CAD-driven fluid flow and heat transfer challenges within the Inventor environment.

CGS - Slovenia

Autodesk Product Supported: AutoCAD Civil 3D

www.cgscivil3d.com/

CGS is a provider of design productivity tools for AutoCAD Civil 3D software users in central and Eastern Europe. AutoCAD Civil 3D users greatly increase their productivity and design quality with the CGS AutoCAD Civil 3D Extensions including design standard checking, roundabout design, Code Checking, piping network design, road signage and

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more.

Eagle Point - USA

Autodesk Product Supported: AutoCAD Civil 3D

www.eaglepoint.com

Eagle Point has been providing software solutions for Civil Engineers worldwide for over 15 years. Their groundbreaking Pinnacle Series helps civil engineers learn AutoCAD Civil 3D software faster, minimizing the learning curve and helping to ensure they get the full power and benefits of AutoCAD Civil 3D software object based design approach.

GSA - Japan

Autodesk Product Supported: Autodesk Revit Architecture 2010, Autodesk Revit Structure 2010

www.gsa-network.com/

GSA is a leading developer of the Autodesk Revit application in Japan. Their sun-shadow calculation software is used by Architects to simulate building sun-shadow and sky factor to Japanese building codes with Revit software.

HydraTEC - USA

Autodesk Product Supported: AutoCAD 2010

www.hydratecinc.com

HydraTEC is a leader in fire protection design software. Their flagship product HydraCAD is used to design fire sprinkler systems for buildings of all types and sizes. HydraTEC customers include designers, contractors and fabricators of fire protection systems across North America.

Hongye - China

Autodesk Product Supported: AutoCAD 2010 and AutoCAD Civil 3D 2010

www.hongye.com.cn/

Hongye's goal is to advance the engineering and design community in China through software development and deployment. Hongye primarily focuses on developing software for municipalities to aid in road design and construction. In 2000, Hongye won China's Ministry of Science and Technology Innovation Fund.

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Innovaya - USA

Autodesk Product Supported: Autodesk Revit Architecture 2010, Autodesk Revit Structure 2010

www.innovaya.com/

Innovaya is a leader in BIM based cost estimating interfaces. Their flagship Visual Estimating product brings the power of BIM to users of Sage Timberline Estimating. Their groundbreaking Visual Simulation product interfaces Revit with the most popular project management tools - MS Project and Primavera.

RDV Systems - Israel

Autodesk Product Supported: AutoCAD Civil 3D

www.rdvsystems.com

RDV Systems brings interactive design visualization to users of AutoCAD Civil 3D software. RDV's interactive visualization tools help enable civil engineers to create better designs and helps them communicate their designs to local government and community organizations.

ShipConstructor - Canada

Autodesk Product Supported: AutoCAD 2010

www.shipconstructor.com

ShipConstructor is a leading supplier of ship design and construction software based on AutoCAD technology. Their flagship product, ShipConstructor, is used by ship designers and shipyards around the world to design and construct commercial and military ships of all shapes and sizes as well as offshore platforms.

SOFiSTiK AG - Germany

Autodesk Product Supported: AutoCAD 2010, Autodesk Revit Architecture 2010, Autodesk Revit Structure 2010

www.sofistik.de

SOFiSTiK is a leading developer of structural design and analysis software for concrete structures in central Europe. Their flagship product SOFiCAD is used by the leading consulting engineering and construction firms across Europe to design a wide variety of concrete bridges and buildings.

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SolidCAM - Israel

Autodesk Product Supported: Autodesk Inventor 2010

www.inventorcam.com

SolidCAM is the developer of InventorCAM -InventorCAM is both certified and integrated with Inventor 2010. The single-window user interface and the full associativity between the CAD model and NC tool path delivers a short learning curve and an efficient flow from the 3D design model to the machined part.

Striker Systems - USA

Autodesk Product Supported: AutoCAD 2010

www.striker-systems.com

Striker Systems specializes in sheet metal nesting and die design software. Their SS-Nest and SS-Die Design products are used by leading sheet metal fabricators across North America.

Struc-Soft -Canada

Autodesk Product Supported: Autodesk Revit Architecture 2010

www.strucsoft.ca/

Struc-Soft is a developer of tailored structural engineering software solutions. They bring structural engineering expertise to the development of structural engineering software applications giving their customers a competitive edge.

THSOFT (Tianhe Software) - China

Autodesk Product Supported: AutoCAD 2010

www.thsoft.com.cn/

Tianhe Software is dedicated to enterprise information solutions for manufacturers (CAD/CAPP/EDPS/PKM/MES). Tianhe Software's services include application development, consulting, implementation services and integrating high-tech enterprises. Product lines cover design, management, and production technology for machinery.

THSWARE - China

Autodesk Product Supported: AutoCAD 2010

www.thsware.com

THSWARE specializes in software development and related services in

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construction, environmental protection and health care industries. In 2005, the company was elected as an 'Outstanding Industrial Corporation of Software R/D' by China Ministry of Construction, and certified as 'Hi-Tech Company', 'Key Software Company', and 'Certified Information System Integration Company (1st Class)' by the Shenzhen government.

Transoft - Canada

Autodesk Product Supported: AutoCAD 2010

www.transoftsolutions.com

Transoft is a supplier of software for transportation engineers worldwide. Their flagship product, AutoTURN, is used by government transportation departments and consulting engineering firms around the world to model the movement of vehicles. Their ground breaking AeroTURN product is used to in use by consulting engineering firms to redesign airport gates at the leading international airports to handle the next generation of very large airliners.

Trelligence - USA

Autodesk Product Supported: Autodesk Revit Architecture 2010

www.trelligence.com

Trelligence creates process-oriented, architectural software for the planning and pre-design stages of building projects. Their Affinity products are designed to make all players in the building team more productive and more successful. Affinity provides a way to evaluate owner requirements and deliver estimates before design starts, as well as track progress against requirements throughout the design process.

For more information on the Autodesk Developer Network, or to find an ADN partner or product, please visit www.autodesk.com/developers.

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CollabNet Transforms Distributed Software Development With Release of TeamForge 5.2

14 April 2009

CollabNet introduced CollabNet TeamForge 5.2, the successor to CollabNet SourceForge Enterprise. The latest version of the company's core product contains significant enhancements, including new features for Subversion management, lab management and cloud provisioning capabilities, and an Agile-ready plug-in for the Hudson continuous integration engine. Millions of software developers around the world use CollabNet products to reduce costs and risks, to improve productivity, and to accelerate innovation. CollabNet TeamForge 5.2 is available as a free trial download at

<http://www.collab.net/downloadctf>.

CollabNet separately announced today a relationship with VMware that will deliver a unified development environment that enables independent software vendors (ISVs) and developers using CollabNet TeamForge and VMware Studio to create applications for deployment for public and private clouds. The press release is available at

<http://www.open.collab.net/news/press/2009/CollabNetVMwarePartnership.html>.

"Re-branding our core product under the 'TeamForge' name reflects CollabNet's unique ability to support software development by agile, collaborative, and distributed project teams," said Bill Portelli, president and chief executive officer, CollabNet. "This is the most innovative product release since we started the company 10 years ago. TeamForge will transform the way distributed organizations develop software, increasing productivity, decreasing time-to-innovation, and reducing infrastructure costs by leveraging the cloud."

Enhanced Subversion Management

CollabNet is the corporate sponsor of the open source Subversion project, which is used for **software configuration management (SCM)** by an estimated 5,000,000 developers around the world. CollabNet TeamForge 5.2's role-based access control provides distributed software development teams with increased management visibility, governance, and control of mission-critical software in Subversion repositories. CollabNet TeamForge 5.2 also provides granular, path-based permissions for even more flexible Subversion repository access control, enabling organizations to manage employees', partners', and contractors' access to particular code trunks or branches.

"CollabNet TeamForge provides the industry's best Subversion management features, which are critical to NXP's developing the most reliable automotive semiconductor products -- which are found in about 80% of the cars in the world," said Andre van de Geijn, account manager, NXP Semiconductors. "Our geographically distributed teams rely on CollabNet TeamForge for secure software versioning and for managing our application development lifecycle. The CollabNet platform has significantly lowered our development costs and improved development time and quality for our most extensively deployed products."

Lab Management and Cloud Provisioning

CollabNet TeamForge 5.2 provides development services to support software development in the cloud with its new lab management capabilities. This enables developers to define and modify profiles and software stacks and provision these profiles on both physical and virtual build-and-test servers from any public or private cloud. Users can access servers from CollabNet's OnDemand Cloud, Amazon EC2, and their own private clouds. CollabNet TeamForge 5.2 also includes Hudson's continuous integration capability, enabling Hudson users to provision and access build-and-test servers from any of these clouds.

Agile-Ready Continuous Integration with Hudson

CollabNet TeamForge 5.2 provides enhanced support for the Agile software development methodology by integrating with the Hudson continuous integration engine via a CollabNet plug-in for authentication, permissions, and automatic uploading of build results. CollabNet TeamForge also supports every other development methodology, environment, and technology, making it the most flexible and open ALM platform available. The new Hudson plug-in increases the speed and flexibility of software development, enabling developers to share build results as part of their workflow. CollabNet has

contributed the plug-in as open source to the Hudson community.

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Delcam's FeatureCAM Certified for Autodesk Inventor 2010

15 April 2009

Delcam announced that its FeatureCAM range of feature-based CAM software products has been certified by the Autodesk Inventor® Certified Application Program for Autodesk Inventor® 2010. This program certifies that FeatureCAM software applications have tested by Autodesk engineers to ensure that they meet the high standards set for quality and interoperability with the latest version of the Inventor® 3D mechanical design system.

“Our relationship with Autodesk is very strong and a huge benefit to our customers, who can open Inventor® parts seamlessly in FeatureCAM, with no loss of data or concerns about translation errors,” says Tom McCollough, Vice President of Development for FeatureCAM. “The certification program gives our customers the confidence of knowing that FeatureCAM has been rigorously tested by Autodesk and found to perform to the highest standards.”

FeatureCAM incorporates a combination of feature-based and knowledge-based functionality that makes programming faster and easier than any other CAM system. The software family offers a comprehensive range of programs for milling, turning, wire EDM and mill-turn, all with the same interface style to minimise training times.

The close integration with Inventor® 2010 gives Autodesk customers access to all the latest enhancements in FeatureCAM. These can be found across the complete range of functionality, reflecting the increased investment in product development following Delcam's acquisition of the software in 2005.

An important area for the new release is increased support for mill-turn equipment. These machines are becoming more popular because of their ability to complete parts in a single set-up on one machine instead of having to use multiple set-ups on two or more different pieces of equipment. FeatureCAM development has focused on support for the more complex machines, those featuring multiple turrets and/or multiple spindles.

The range of five-axis options within FeatureCAM has also been extended. The software now supports both positional and continuous five-axis operation, five-axis trimming and five-axis drilling. All these options allow productivity to be improved by enabling parts to be produced in one or two set-ups that would otherwise require multiple set-ups and/or special fixturing.

Another key area for development has been four-axis simultaneous milling. This provides programming for milling machines with rotary tables. Like the mill-turn and five-axis enhancements, this new functionality will allow users to tackle more sophisticated parts than could be programmed before.

Developments have also continued with the more fundamental machining operations. The main enhancement to the FeatureTURN module has been the addition of support for form tools. Other improvements include more efficient threading, better control of undercutting, and extra options for pre-drilling before boring. Similarly, 2D machining has been enhanced with improvements to thread milling, easier control of feeds and speeds, support for a wider range of engraving tools. In addition, substantial improvements have been made to the FeatureWIRE module, the highlight being faster and easier recognition of 4-axis wire features.

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Finally, three-axis milling has been made more efficient, for example when machining preforms like castings or parts that have already been rough machined. The new version minimises air cutting thanks to the ability to limit toolpaths to the stock model. Since no cutting moves are generated outside this boundary, an efficient toolpath strategy can be created more quickly and more easily.

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EVE Significantly Enhances Hardware Debugging Capabilities of Its Leading Emulation Platform

13 April 2009

[EVE](#) announced that it is expanding the hardware debugging capabilities of ZeBu (for Zero Bugs) emulation systems by adding support for SystemVerilog Assertions, flexible probes, and complete access to all combinational signals at run-time for thorough design debugging.

“These new, advanced debugging features added to existing capabilities make our fast emulation systems the new standard for hardware design debugging,” says Lauro Rizzatti, EVE-USA’s general manager and vice president of marketing. “Already the choice for hardware/software integration for its superior speed, attractive pricing and full transactional-level support, the new functionality strengthens ZeBu’s standing as the ideal hardware-assisted design verification tool.”

Embedded and bound synthesizable SystemVerilog Assertions are supported in ZeBu emulation using EVE’s recently unveiled zFAST (ZeBu FAst SynThesis) tool. Similarly to ZEMI3, SystemVerilog Assertions improve the debugging process by accelerating the location of bugs and by minimizing the size of waveform files needed to isolate the bug.

Synthesizable assertions can be compiled into the emulator with a scope at the design, module, instance and assertion level. Assertion failures, starts and ends, and successes can be reported live or via post-processing in any mode of operation for every assertion in the register transfer level (RTL) code.

In addition to static probes and dynamic probes, the newly developed flexible probes offer broad visibility into the design, while increasing performance. Added during design compilation, the maximum number for flexible probes is higher — more than 30,000 per field programmable gate array (FPGA) — than for static probes. Flexible probes don’t affect emulation performance when they are disabled. When enabled, they generate signal waveform files at the maximum speed offered by the fastest host PC hard disk without limiting the number of cycles or stopping the emulator. Because flexible probes are fully integrated into zRun and the ZeBu C++/C application programming interface (API), system-on-chip (SoC) designers can use them in any mode of operation.

Run-time signal access and dynamic probing in ZeBu have been enhanced with the addition of simulated combinational signals that enable waveform generation of any RTL signal without adding extra logic into the design. Enhanced dynamic probes are integrated into the ZeBu run-time environment to generate a single waveform file and can be accessed interchangeably by software testbenches, providing improved debug capabilities.

Pricing and Availability

SystemVerilog Assertions, flexible probes and simulated combinational signals are available now at no cost as add-on features to ZeBu.

To learn more, visit: <http://www.eve-team.com/products/zebu-debug.php>.

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HARcad Enables the Development of Wiring Harness Systems According to ISO 9001

16 April 2009

The harness development tool HARcad is a CAD application created specifically for the requirements covering harness products. After the successful launch on the German market, HARcad is now available in China.

HARcad supports the complex harness development processes from conceptual design to calculation and change process. The intuitive handling and the adjustment of the functionalities according to engineers' requirements guarantee a short training period and fulfil the demand of time and cost efficiency.

HARcad provides comprehensive functionalities to define the logical and physical content of wiring systems by means of schematics and harness drawings. In addition to the design aspects, HARcad covers the library-based part selection of all harness components and provides powerful processing routines. It is scalable from a drawing tool up to an enterprise application and offers a dedicated Design Viewer tool to support today's needs for seamless teamwork.

HARcad was developed by Intedis GmbH & Co. KG with headquarters in Wuerzburg, engineering partner and consuler supporting the leading automotive companies in all aspects of automotive electric/electronic architecture for several years. Due to the experience in the field of wiring harness development and the background of a leading wiring harness manufacturer, Intedis exactly knows the requirements harness engineers are challenged within their daily work.

To support global customers Intedis provides local services in China as well as in India.

Please visit <http://www.harcad-solutions.com> to find more information including a detailed description of the functionalities.

Intedis supports and advises vehicle manufacturers and suppliers, technical and purchasing departments in all aspects of automotive E/E architecture. The company was established in Wuerzburg in 2001 as a joint venture between the automotive suppliers Hella KGaA Hueck & Co. KG and LEONI Bordnetz-Systeme GmbH.

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Informative Graphics Enables Agile Enterprise Content Management With Multi-Format Viewing and Collaboration for IBM FileNet P8

14 April 2009

Informative Graphics Corporation ([IGC](#)) announced that its web-based Brava!® Enterprise is now integrated to IBM® FileNet® P8, enabling agile Enterprise Content Management (ECM) through multi-format viewing and collaboration for the enterprise. The newly integrated solution helps P8 users streamline document-related processes through fast, accurate viewing, convenient annotation and automated redaction features.

Brava provides a unified viewing and annotation interface for all document and image formats -- even CAD drawings -- making review processes and workflows easy. The solution includes the ability to output files to IGC's own Content Sealed Format with Visual Rights® persistent file security, allowing users to expire files when sending them out for review, bid cycles, and more. Brava integrates into existing intranet, enterprise content management, project management and portal solutions, now

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including IBM FileNet P8, while honoring user rights, leveraging metadata, and managing annotations. The comprehensive solution allows enterprises to automatically view, collaborate, redact and secure sensitive documents.

Benefits of the Brava integration with IBM FileNet P8 include:

- **Agile ECM** - enable business process efficiency
- **Parallel Reviews** - allow multiple users to view and annotate simultaneously using their own markup files
- **Consolidated Annotation** - reviewer can view all approved users comments simultaneously (based on P8 usernames)
- **Records Management and Compliance** - original document remains untouched; markups and annotations are maintained in an overlay file
- **Workflow Automation** - start or insert workflow processes based on new markup creation, approval status and more, helping speed processes

"By tightly coupling Brava! Enterprise with the IBM FileNet P8 solution, we provide exceptional business productivity to our mutual customers," said Gary Heath, CEO of Informative Graphics. "Brava plays perfectly into IBM's Active Content concept and helps IBM ECM users make better decisions faster. Our integration marries the need to view and comment on different file formats with the need for increased content security within IBM ECM deployments."

As a participant of the IBM ECM ValueNet Business Partner Program, IGC is committed to providing both product and service excellence for IBM customers. This program is comprised of ValueNet partners who combine FileNet's technology with their own industry-specific expertise to create custom solutions that meet customers' operational, regulatory and technical needs.

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Magma's New Talus Design Delivers Fastest Design Turnaround and Superior Results for Advanced Chips

13 April 2009

[Magma® Design Automation Inc.](#) announced the availability of an upgraded version of Talus® Design, Magma's full-chip synthesis product for advanced integrated circuits. The new release includes an enhanced timing optimization engine, improved memory efficiency and advanced productivity improvements such as out-of-the-box usability, advanced scripting language for more flexibility, and support for leading third-party design-for-test (DFT) products. The combination of Talus Design with Talus Vortex provides a complete RTL-to-GDSII solution for implementing the most advanced designs, enabling designers to fully optimize and accurately predict final chip performance early in the design cycle and minimize design iterations.

Sigma Design, an early adopter of Talus Design, has used the product in a number of recent successful high-performance tape-outs.

"Managing, importing and exporting the various databases and files required for each tool in traditional flows is a complex, time-consuming task and can introduce errors into the design," said Jacques Martinella, vice president of Engineering of Sigma Design. "With Magma's RTL-to-GDSII flow, all the

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design data is captured in a single binary file called a Volcano™. This simplifies data management and improves our overall productivity. The tight integration of this system and the recent enhancements to Talus Design and Talus Vortex were key to Sigma's decision to standardize on the Magma flow."

"The technical challenges of nanometer design have been compounded by economic pressures to create more complex and differentiated chips in less time and with fewer engineering resources," said Premal Buch, general manager of Magma's Design Implementation Business Unit. "By leveraging the same optimization and analysis engines available in the Talus Vortex physical design environment, Talus Design offers designers the high degree of predictability and improved productivity needed to meet tough performance and turnaround-time requirements".

Talus Design: Fast, High-Capacity RTL and DFT Synthesis

Leveraging the high capacity of Magma's unified data model, and with improved memory efficiency over earlier releases, Talus Design synthesizes multimillion-instance RTL designs without hierarchical partitioning or guard-band-related timing constraints. The capacity restrictions of traditional tools require designers to break up large designs into numerous blocks and limit the designer's ability to optimize the design. Talus Design's high capacity enables entire chips or just a few large blocks to be synthesized in a single pass and delivers superior optimization results. An incremental elaboration capability allows small changes to the design's RTL to be propagated into the implementation flow without the manual process of recompiling the entire design. Elaboration engine improvements now provide concurrent language support for VHDL, Verilog and System Verilog.

To improve testability of the design, Talus Design supports top-down and bottom-up hierarchical scan insertion throughout the synthesis and physical design flow. Talus Design has a comprehensive and configurable DFT flow check engine that allows the user to analyze and debug testability issues. With these capabilities and proven interoperability with third-party test solutions, Talus Design provides comprehensive DFT support.

Talus Design and Talus Vortex: A Single Solution for Improved Predictability and Productivity

The complete Magma Talus flow eliminates timing mismatches between synthesis and physical design because it's built on a unified data model and uses a single static timing analyzer throughout the Talus RTL-to-GDSII flow. Talus Design enables logic designers to experiment at early stages of the design process with incomplete data to improve RTL and timing constraints. These early optimizations eliminate time-consuming iterations toward the end of the design cycle and allow the logic designer to hand off the design to the implementation team with a very high degree of confidence that it will achieve design closure.

Using a single Volcano database, designers benefit from a comprehensive self-documenting repository for all design information, ensuring an error-free method of exchanging information between logical and physical design teams. Magma Tcl scripting is also available throughout the tool flow to help automate and simplify complex tasks, delivering a powerful, productive environment that enables designers to meet the technical and market challenges of today's semiconductor designs.

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New Version of Lectra's Software Suite for MFC Furniture Automated Leather Cutting System Improves Productivity for Upholstered Furniture Manufacturers

April, 16, 2009

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[Lectra](#), the world leader in integrated technology solutions dedicated to industries using soft materials—textiles, leather, industrial fabrics, and composite materials—, is pleased to announce the release of the new V2R3 version of its software for the MFC Furniture solution, designed for professionals in the upholstered furniture industry that use or cut leather.

In today's globalized and fiercely competitive marketplace, Lectra supports upholstered furniture professionals in their quest for greater productivity, flexibility, and control. The company's solutions enable its customers to maximize their production output and thereby keep up with the increasing frequency of collection renewals. Lectra also helps industry professionals optimize their industrial processes by monitoring and analyzing data generated by equipment, operators, and suppliers in order to reduce production costs.

Piloted by this new software, the MFC Furniture cutting system stands out among the competition for its ability to maximize material savings by reducing leather consumption while respecting specifications for the finished product. It guarantees flawless cut quality and shortened production times, regardless of the business environment, production methods, or type of leather to be cut.

New V2R3 software suite for MFC Furniture: technological innovations that benefit users

With the new V2R3 software, the MFC Furniture automated cutting system now integrates optimized nesting methods. This upgraded package provides improved tools for cut order management, is easier to use, and includes a particularly comprehensive and powerful range of options.

Optimized nesting methods

The new V2R3 MFC Furniture software enables users to optimize the overall efficiency of the MFC Furniture cutter through nesting software available in LaserNest, AutoNest, and now ExpertNest formats.

LaserNest is Lectra's interactive nesting method which allows the operator to place pattern pieces on the hide using laser projection. Innovations in this new version of LaserNest permit even relatively inexperienced users to achieve greater efficiency when nesting patterns. The system is now simpler and more automated, making interactive nesting "intelligent" and limiting the number of repetitive and tedious tasks required.

AutoNest is Lectra's method for automatic nesting of pattern pieces on a hide. The quality of nest achieved with this automatic method has been maximized through improvements in the accuracy of image capture and processing as well as contour and flaw recognition, regardless of the color of the hide.

ExpertNest: Lectra's unrivaled new nesting method

The new MFC Furniture V2R3 software is particularly noteworthy for the inclusion of a completely new and original nesting method: ExpertNest. A technological breakthrough without precedent on the market, ExpertNest enables companies to significantly increase their competitive advantage.

Until recently, there were only two ways of nesting pattern pieces onto hides. Professionals could perform nesting automatically with AutoNest or interactively, with LaserNest. Now they can make the most of a perfect combination of these two nesting methods. Once the first pattern pieces have been nested by an operator using LaserNest, AutoNest's automatic nesting system can take over and complete the hide.

MFC Furniture is the only solution on the market to offer this combined nesting technique which meets

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the most essential requirements of upholstered furniture manufacturers. They are now able to process all types of leather—natural, semi-aniline, printed, or corrected. What's more, companies can choose, at any time in the process, the method most suited to their production, regardless of the styles and models to be produced or the organization of their plant.

ExpertNest guarantees significant improvements in productivity. Its combined nesting technique can generate an increase in productivity of up to 15% compared to LaserNest's interactive nesting method.

New V2R3 software suite for MFC Furniture ensures better cut order management

The new MFC Furniture V2R3 software package also enables companies to manage cut orders better through the use of bar codes which guarantee total traceability of cut pieces, from the supplier through to the delivery of the finished product.

Automatic updating and archiving of cut orders, a simplified user interface, and a greater number of options for the definition of hide and piece characteristics make the management of cut orders easier and thus reduce the risk of errors.

Greater user-friendliness

New functions have been added to the V2R3 software, and existing options have been improved. The new package is more user-friendly: it is more manageable and can be configured to correspond to users' needs. It can be adapted to their working methods and programmed to take the company's physical and logistical production constraints into consideration. This flexibility ensures seamless integration into the company's business environment. To provide further support, a more practical, straightforward, and comprehensive online assistance tool is available to help develop users' skills and optimize use of the application.

A wide range of powerful functions

A more powerful and comprehensive range of options for nesting simulation and reporting has also been added to the new MFC Furniture V2R3 software. They can be used both to optimize nesting parameters based on real production data and also to select the best possible combination of variants and models for improved productivity. Thus, a better combination of results enables the software to achieve unrivaled accuracy when estimating costs and material savings. The reporting option has also been enhanced through the addition of new graphic tools for more precise analysis which, as a result, allow for greater control of production data.

In line with Lectra's customer support strategy, the new MFC Furniture V2R3 software suite is accompanied by a range of high value-added professional services delivered by Lectra's business and solutions experts.

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Proficiency Solutions Power Dassault Systèmes CATIA Migration Solution

[Proficiency, Inc.](#) announced that it has been selected by Dassault Systèmes (DS) for the DS CAD Data Migration Factory initiative. This new service, enabled by Proficiency's technology, will allow customers to maintain the product knowledge accumulated in their CAD models, including features, history tree and manufacturing data, when moving from diverse engineering and manufacturing environments to the CATIA platform.

“We're pleased to extend our relationship with Dassault Systèmes, enabling us to combine Proficiency's

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technology with the strength of CATIA," said Alex Shapira, CEO of Proficiency. "This will be very beneficial to all the customers, who are trying to avoid the overhead and complexities of an in-house CAD migration process, and looking for the most cost-effective, reliable and secure migration process for models to the CATIA environment."

The Factory has very high volume capacity to extract diverse CAD from any PDM source, convert it to CATIA and then delivered back to the customer. As a value-add service, the solution integrates CATIA and customer methods into the conversion process, resulting in data that is highly re-usable and captures customer best practices.

As compared to data re-mastering solutions, the Data Migration Factory maintains all geometry, features, sketches, manufacturing info, metadata, assembly information and associative drawings in the conversion process. Additionally, this new solution is scalable, flexible and affordable as the total cost is based upon an on-demand data size. The Factory also has lines to accommodate simpler conversion streams such as geometry-only conversion (B-Rep).

"We are focused on developing solutions that enable collaboration among OEMs and their constituents," said Evans Routsis, director, Automotive Practices, Dassault Systèmes. "This new translation capability coupled with real world methods enables the customers to migrate and re-use intellectual property more efficiently. Additionally, they can achieve significantly higher quality, turnaround time and intellectual property protection by keeping the data migration onshore."

If you'd like to learn more about Proficiency solutions, visit booth #413 at the upcoming COE 2009 Annual PLM Conference & TechniFair, April 19 – 22 at the Washington State Convention and Trade Center in Seattle, Washington.

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Synopsys Introduces Lower Power, High-Performance Architecture for AMBA 3 AXI On-Chip Interconnect

15 April 2009

Synopsys, Inc. announced that it has enhanced its DesignWare® IP for the ARM® AMBA® 3 AXI™ interconnect with the industry's first hybrid architecture implementation, enabling dedicated high-performance and shared low-performance channels to be combined within a single AMBA 3 AXI on-chip interconnect. This new architecture, available in synthesizable source RTL, allows designers to configure the bus fabric to eliminate unnecessary logic within the design, thereby reducing area, power consumption, and overall routing congestion. The hybrid architecture is ideal for system-on-chip (SoC) designs that use a native AMBA 3 AXI interconnect. It also reduces the area impact for SoC designs transitioning from an AMBA 2.0 AHB™ to an AMBA 3 AXI-based architecture.

As demands on system performance continue to increase, the effective control of bandwidth allocation for SoC peripherals becomes increasingly important. The bandwidth requirements for each master-to-slave link within a system can vary widely. Traditional off-the-shelf bus architectures consist of either a single shared bus that services all master and slave devices, or dedicated buses that service specific master and slave devices. These bus architectures do not give designers the ability to configure the interconnect to accommodate individual component requirements. The new hybrid architecture implemented in the DesignWare IP for the AMBA 3 AXI interconnect provides designers with a choice of connecting the master-to-slave link through either a shared or dedicated bus within a single AMBA 3 AXI on-chip bus interconnect. This flexibility helps designers reduce the number of dedicated buses and

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wires in the system, alleviating routing congestion, minimizing area and lowering power consumption. Furthermore, the architecture eases timing closure by allowing for greater control of the critical paths throughout the bus interconnect.

In a recent case study using the Galaxy™ Implementation Platform, Synopsys configured the DesignWare IP for AMBA 3 AXI interconnect fabric consisting of 10 master and 10 slave ports. The hybrid architecture allows the low bandwidth master-slave links of the dedicated bus to be replaced with a shared bus, while keeping the high-bandwidth master-slave links as dedicated buses. With this implementation, Synopsys was able to reduce the number of wires by 52 percent, area by 30 percent, and power consumption by 30 percent when compared with Synopsys' traditional DesignWare IP for the AMBA 3 AXI interconnect fabric without the hybrid architecture.

The hybrid architecture has been verified using Synopsys DesignWare Verification IP for the AMBA 3 AXI interconnect, which has earned the ARM AMBA 3 Assured™ logo certification. Certification lowers integration risk and gives designers confidence that their AMBA 3 AXI interconnect-based designs using the DesignWare IP will accurately adhere to the AMBA 3 AXI protocol specifications as defined by ARM. The DesignWare IP for the AMBA 3 AXI interconnect provides internal piping options, allowing designers to balance the operating frequency and latency requirements without incurring a throughput penalty.

"The AMBA 3 AXI protocol is one of the most popular on-chip interconnects for high performance SoCs, and Synopsys' new hybrid architecture will help extend the use of this interconnect into next-generation applications with improved performance and area," said John Koeter, vice president of marketing for the Solutions Group at Synopsys. "As designers migrate to the high-performance AMBA 3 AXI on-chip interconnect, they can rely on Synopsys' established history in providing high-quality, silicon-proven AMBA IP to help them efficiently deliver advanced SoCs."

Availability

The hybrid architecture in the DesignWare IP for the AMBA 3 AXI interconnect is available now to early adopters. The IP is provided in synthesizable source RTL, as part of Synopsys' broad portfolio of comprehensive, silicon-proven IP solutions for the most widely used standards-based interfaces such as PCI Express, USB, DDR, SATA and Ethernet. General availability is scheduled for Q3 2009. For more information on DesignWare IP for the AMBA 3 AXI interconnect, please visit:

<http://www.synopsys.com/amba/>.



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The MathWorks Introduces New Versions of MATLAB Parallel Computing Products

14 April 2009

[The MathWorks](#) announced new versions of its MATLAB parallel computing products. Parallel Computing Toolbox enables users to run applications in up to eight cores, empowering MATLAB users to take more advantage of multicore desktop computers without major programming efforts. MATLAB Distributed Computing Server now supports Microsoft HPC Server 2008, providing users with access to the most recent enhancements in this cluster environment software. The MathWorks also introduced enhancements to other products in the MATLAB and Simulink product families that help users take advantage of advanced hardware systems.

High-end desktop machines are shipping with an ever-expanding number of cores, making them

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extremely powerful. Parallel Computing Toolbox helps users access the capabilities of their sophisticated hardware. The latest version allows engineers and scientists to easily program parallel applications that make use of the desktop hardware available to them by increasing the number of MATLAB sessions that users can run on their desktop computers from four to eight.

Looking beyond the desktop to larger computing resources, The MathWorks support for third-party schedulers, which now includes Microsoft HPC Server 2008, allows cluster administrators to integrate MathWorks parallel computing tools into existing distributed computing environments. Once the application is programmed, users can scale to larger resources, such as clusters and grids, without having to modify the code by relying on MATLAB Distributed Computing Server.

“Users are looking to easily access the power of high performance computing resources, whether it be maximizing the multicore capabilities of their local desktops or using clusters and grids,” said Silvina Grad-Freilich, manager of parallel computing and application deployment marketing at The MathWorks. “By increasing the number of cores supported by Parallel Computing Toolbox, these users can leverage the increased hardware capabilities without requiring significant programming.”

The MathWorks also introduced several new features that take advantage of multicore desktops in other products, including MATLAB, Simulink Design Optimization, and Real-Time Workshop Embedded Coder. For more information on these new features, visit

www.mathworks.com/products/new_products/latest_features.html.

Pricing and Availability

Parallel Computing Toolbox is available for the Microsoft Windows, Solaris, Linux, and Macintosh platforms. U.S. list prices start at \$1,000. More information, including international pricing, is available at www.mathworks.com/parallel. Information about MATLAB Distributed Computing Server is available at www.mathworks.com/products/distriben/.

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3Dconnexion Launches Its Most Powerful 3D Mouse Ever: the SpacePilot PRO

16 April 2009

3Dconnexion announced the new SpacePilot™ PRO. The company’s flagship 3D mouse is designed to deliver advanced control of 3D models, easier access to the power of professional 3D applications, fewer interruptions in the design workflow, and superior comfort. Specifically, the SpacePilot PRO features a new color LCD Workflow Assistant, second-generation QuickView Navigation technology, Intelligent Function keys, and an improved design for enhanced comfort and control.

“3Dconnexion’s 3D mice have rewritten the rules on the way design engineers and professionals interact with 3D environments,” said Dieter Neujahr, president of 3Dconnexion. “Our new SpacePilot PRO builds on our market-leading industry experience, delivering the most powerful 3D mouse we’ve ever made. It enables increased performance that ultimately results in better designs, created in less time.”

The SpacePilot PRO 3D mouse provides the highest level of performance features ever available from 3Dconnexion, including:

- **LCD Workflow Assistant:** The color LCD lists function-key assignments and provides at-a-glance access to Microsoft® Outlook® e-mail, calendar and task lists, allowing professionals to access important information for a fully integrated design experience with fewer distractions. Through

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3Dconnexion's open software architecture, the workflow assistant can be further customized to meet the needs of individuals, companies and software vendors.

- **Advanced MCAD Navigation:** Five new dual-function QuickView Navigation keys improve error detection, design review, and design presentation by providing one-touch access to the following views: top and bottom, right and left, front and back, two isometric views, and 90-degree view rotation of any view either clockwise or counter-clockwise – for a total of 32 views. A short press activates a key's primary view command, while pressing and holding a key activates a secondary view command. In addition, new Navigation Setting keys offer simplified and customizable control, allowing professionals to turn pan-and-zoom, rotation and one-axis control on or off, making it easier to define navigation settings for certain work modes.
- **Intelligent Function Keys:** Five new fully customizable, dual-function keys offer immediate, one-touch access to 10 frequently used commands within any supported 3D application. The SpacePilot PRO automatically detects the active application and assigns appropriate function keys – whether default or customized. The color LCD denotes the function key assignments and application mode so engineers can easily identify commands and design states.
- **Superior Comfort:** The SpacePilot PRO has a new sculpted, soft-coated wrist rest that positions the hand in relation to the controller cap to support a balanced workflow. The micro-precision six-degrees-of-freedom sensor allows for fingertip control with minimal effort from the arm, wrist and hand, while frequently used commands are conveniently positioned at your fingertips. The intuitive and symmetrical layout of the function keys makes the device usable with either hand.

3Dconnexion provides advanced and affordable 3D mice that are supported by more than 130 of today's leading 3D applications, including Autodesk Inventor™, SolidWorks™, CATIA™, Pro/ENGINEER™, NX™ and Solid Edge™. For a complete list of applications supported by 3Dconnexion, visit <http://www.3dconnexion.com/solutions>.

Compatibility, Pricing and Availability

The SpacePilot PRO is backed by a three-year warranty, and is currently available at a suggested retail price of \$499. The SpacePilot PRO is supported by Windows XP, Windows Vista®, Sun Solaris 8 (SPARC), Sun Solaris 10 (x86), and Linux® (Redhat Enterprise Linux WS 4, SuSE 9.3 or later). Linux and Solaris support workflow assistant function key assignments only.

The entire 3Dconnexion product line, including the Professional Series with the SpacePilot™ (MSRP \$399) and SpaceExplorer™ (MSRP \$299), and the Standard Series with the SpaceNavigator (MSRP \$99) and SpaceNavigator for Notebooks (MSRP \$129), are available from professional CAD resellers and major online resellers including CDW, Insight, PC Connection, and PC Mall. For a complete list of resellers or to buy directly, visit <http://www.3Dconnexion.com>.

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think3 Presents TD-PLM, the New Web Based Solution for Implementing a PLM System

15 April 2009

Consolidated experience in the product development sector has enabled [think3](#), a multinational currently celebrating 30 years of activity in the CAD and PLM sector, to develop a new state-of-the-art PLM (Product Life Cycle Management) application. TD PLM is a new web-based suite which encompasses the entire product life cycle, from concept right through to EOL disposal. The suite is rapid to

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implement through a series of independent steps with predefined costs and with a ROI which can be calculated during definition of the implementation project.

TD PLM enables the management of information, processes and human resources with a simple and effective approach. TD PLM is modular and easy to personalize making it the ideal tool for the technical design office and other enterprise environments which need to manage parts lists, CAD documentation, design processes, product maintenance and spare parts and assistance services.

Users can access a centralized database via Web Clients, world-wide, without having to install other applications. Security is guaranteed with single sign on (SSO) procedures. The system can be accessed over internet via a standard web browser. There are neither software installations nor maintenance costs.

Thanks to a task driven approach, system users can access any updated item of data in real time right from the word go. The innovative task driven system guides users, even the less expert, step-by-step through PLM activities on simple web pages. This feature is particularly important in cases where the user wants to make full use of the power offered by a web-based PLM by giving controlled access to its data to outside offices, customers and suppliers.

TD PLM has been developed with the very latest technology. The system is based on three-tier architecture with web-based clients and integrates easily with most ERP, MRP and CAD systems because it uses the same graphic user interface (GUI). This feature greatly improves collaboration with company departments and businesses using other tools.

TD PLM innovative functions:

- **Web GUI** – all activities (data inputting and outputting) are handled using a web browser.
- **Task Driven GUI** – the graphic user interface is easy to learn and use; this reduces training costs and stimulates user motivation.
- **Administration console** – provides a powerful administration tool for centralizing configuration, personalization and administration activities even where various PLM systems are implemented.
- **Built in localization tools** - TD PLM is designed for simultaneous use anywhere in the world. The user interface can be localized using the international settings (language, currency, time zone, date) and content such as descriptions and headings can also be entered, searched and consulted in various languages. Each field or keyword in TD PLM can be translated into any language or alphabet.

Reasons for choosing TD PLM

- Based on a secure, independent Web 2.0 platform.
- Rapid implementation with zero impact on existing organization and IT. Customers are operational in less than six months and receive 24/7 support and online training.
- Perfectly integrated with CAD and other systems at the GUI level so that users do not have to switch backwards and forwards between one application and another.
- Quick and easy to learn, rapid ROI.
- Secure SSO (single sign on) access.
- No IT maintenance required.



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TransMagic R8 to Support 3Dconnexion's 3D Mice

16 April 2009

TransMagic Inc. announced that [3Dconnexion](#)'s 3D mice will be supported in TransMagic R8.

TransMagic R8 will introduce many productivity enhancements including the incorporation of 3Dconnexion's 3D mice, sometimes referred to as SpaceBalls. By pushing, pulling and tilting a 3D mouse, TransMagic users will be able to simultaneously pan, zoom and rotate 3D objects without stopping to select individual commands.

"As one of the few 3D data translation applications with a graphical user interface, it was logical to support 3Dconnexion devices to enhance viewing capabilities and ultimately increase the productivity of our customers," said Craig Dennis, CTO of TransMagic. "The beauty of 3D mice is that they greatly simplify the tasks of visual inspection and model orientation when using TransMagic's sophisticated repair tools with complex parts and assemblies."

3Dconnexion's 3D mice integrate with TransMagic's workflow providing an intuitive 3D data exchange work experience. Engineers who spend time with complex 3D models can increase productivity with the ability to navigate models in all three dimensions simultaneously, using six degrees of freedom.

TransMagic reduces the costs of translating, repairing and repurposing design data for use in 3D applications. Visit <http://www.transmagic.com> for a free 7-day trial.

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