

Contents

Company News	2
ESPRIT Reseller Auton Sistemi Signs Agreement with Achelon S.r.l.	2
InterDyn BMI to Resell PTC® Leading PLM Solutions to Customers in Automotive, High Technology, Industrial Equipment and Life Sciences Industries	2
Think3 Supports Approach to Multisensory Modeling in Funded Project	3
VISTAGY Partners with Maxoft to Expand its Presence in the Growing Korean Composites Market	4
Events News	5
Cimatron to Display Latest Die Design Solutions at BLECHEXPO	5
CimatronE Selected to Highlight Automation at EuroMold	6
Dassault Systèmes Helps French Pavilion Become First World Expo Participant to Launch True Interactive 3D Pavilion	7
Delcam to Launch New PowerINSPECT at Euromold	7
ESPRIT by DP Technology at EuroMold 2009, Frankfurt, Germany, Dec. 2-5	8
Exciting 3D Printing Advances from Objet Attract EuroMold 2009 Attendees	9
ProSTEP iViP Symposium 2010 - Register Now and Save	10
PTC Announces Direct Modeling Webinar	11
Sescoi's Technical Sessions Launch WorkNC V20 across the USA	11
Sivan Design Announces Version 2.0 Release of its 3D Simulation Software Civil Simulate	12
SURFCAM V5 to Showcase at Euromold 2009	13
TopSolid® Mold 2010 on its Way	13
Financial News	14
Autodesk Increases Profitability in Third Quarter Fiscal 2010	14
HP Reports Fourth Quarter 2009 Results	17
Mentor Graphics Corporation to Release Fiscal Q3 2010 Financial Results Thursday, December 3, 2009	20
Implementation Investments	20
Circa Corporation Transforms Business System with Fully Integrated BlueCherry® Suite	20
Delcam's PartMaker Boosts Efficiency at Medical Device Manufacturer	21
Digital Imaging Systems Achieves First-pass Silicon Success With Synopsys Galaxy Custom Designer	22
Hynix Standardizes on Magma's FineSim Pro and FineSim SPICE for Full-Chip Verification of Large Memory Designs	22
Magma's Quartz DRC and Quartz LVS Adopted by Toshiba Corporation for Verification and Yield Improvement of Advanced Flash Memory Designs	23
Oil & Gas Contractor Seawell Expands Further with IFS Applications	24
SolidWorks Helps U.K. Pipeline Company Design Flexible Pipelines That Go With The Flow	25
Product News	25
CD-adapco and Access Unveil STAR-Cast, a Mould Breaking Tool for Casting Simulation	25
Dassault Systèmes Announces New Release of Abaqus FEA from SIMULIA	26
Dassault Systèmes Unveils Collaborative Innovation Initiative for Consumer Packaged Goods	28
Lectra Announces the New Version of Romans Cad	28
LEDAS Improves Parametric Design in SketchUp	30
LMS International Releases Feature-Packed LMS Virtual.Lab Rev 9	32
Magma Releases Hydra 1.1 - Enhanced Hierarchical Design Planning Solution Adds Out-of-the-Box Reference Flows and Advanced Technology to Deliver Better Floorplans Faster	33
Mastercam X4: Spotlight on Lathe	34

CIMdata PLM Industry Summary

Omnify Software Offers RapidStart PLM for Small and Mid-size Manufacturers _____	35
Symphony Services' Product Line Management Services Raise R&D Organizations' Effectiveness and Profitability _____	35
Synopsys Expands DesignWare Data Converter IP Portfolio with 40-nm Solutions _____	36
TopSolid Earns the "Compatible with Windows 7" Logo _____	38
TowerJazz and Tanner EDA Announce Process Design Kit (PDK) Collaboration for Power Management Device Design _____	38
VERICUT® Enhanced to Read NX Part Files Directly _____	39

Company News

ESPRIT Reseller Auton Sistemi Signs Agreement with Achelon S.r.l.

19 November 2009

Auton Sistemi, an Italian reseller of DP Technology Corp.'s ESPRIT® computer-aided-manufacturing (CAM) software, has signed an agreement with Italian software distributor Achelon S.r.l., which is now distributing and offering technical support for ESPRIT in Italy.

Achelon S.r.l. is an Italian leader in the distribution of solutions that promote interoperability between CAM and computer-aided-design (CAD) software.

Likewise, Auton Sistemi leads in sales and support of ESPRIT, which it has represented since 1998.

"Auton Sistemi's vast knowledge of ESPRIT, combined with Achelon's skill in software distribution, have created the perfect conditions for a successful collaboration," say Maurizio Villani of Auton Sistemi and Roberto Brondolo of Achelon, in a statement released jointly by the two companies.

 [Click here to return to Contents](#)

InterDyn BMI to Resell PTC® Leading PLM Solutions to Customers in Automotive, High Technology, Industrial Equipment and Life Sciences Industries

24 November 2009

InterDyn BMI, a leading provider of [Microsoft Dynamics](#) solutions, announced that it has joined the PTC AdvantageNetwork™ ChannelAdvantage™ Partner Program. This is especially significant for manufacturers who already use Microsoft Dynamics ERP to run their global business processes and would like to further improve efficiencies around product development by adding complementary Product Lifecycle Management (PLM) solutions.

[InterDyn BMI](#) will now be able to introduce PTC PLM software to customers in the Automotive, High Technology, Industrial Equipment and Life Sciences industries. The PTC Product Development System comprised of Pro/ENGINEER® for CAD/CAM/CAE product design, Windchill® PLM software to manage and configure complete product development content, Arbortext® for product information delivery, Mathcad® for engineering calculations, ProductView™ to visualize digital product content, and InSight™ for product analytics.

"We are very excited to be part of the PTC AdvantageNetwork Partner Program. InterDyn BMI has been providing Microsoft Dynamics Solutions for over twenty years and this program is a great way to extend what we can do for our clients and new customers," said John Hendrickson, CEO at InterDyn BMI.

CIMdata PLM Industry Summary

With the addition of PTC software, InterDyn BMI can help its customers reduce project cycles and costs, and improve product quality to increase customer satisfaction that can improve market positioning.

"PTC is pleased to work with channel partners like InterDyn to expand our ability to offer the PTC Windchill PLM solution to manufacturers around the globe," said Paul J. Cunningham, executive vice president, worldwide sales, PTC. "PTC believes that customers who choose to use Microsoft Dynamics ERP in conjunction with PTC's PLM software will benefit from increases in overall product development efficiencies that can improve time-to-market, help control costs and drive competitive differentiation."

InterDyn BMI and PTC provide strategic business solutions and enterprise services to customers worldwide.

 [Click here to return to Contents](#)

Think3 Supports Approach to Multisensory Modeling in Funded Project

November 2009

Think3 is member of the consortium implementing the project SATIN. This project with a total cost of 5.1 million € was funded with 2.9 million € from the EU and started in 2006 under the coordination of Politecnico di Milano for 36 month duration.

SATIN stands for "Sound And Tangible Interfaces for Novel product design". Other members of the consortium are the Portuguese Instituto de Engenharia de Sistemas e Computadores research institution, the Technical University of Eindhoven, University of Nottingham and as partners from the industry Alessi, Italdesign – Giugiaro, MOOG-FCS, Steklarna Hrastnik.

The research develops a new multimodal and multisensory interface system for product design integrating in an effective way novel modeling paradigms based on the fusion of vision, haptic and sound interface, through a "designer-centered" approach.

A SATIN project video is available at <http://www.youtube.com/satinproject>

This video presents the SATIN project and in particular its final result: the SATIN system. In the video, the several modules are described. A user demonstrates how to use the SATIN system for evaluating and modifying aesthetic shapes.

About the SATIN system

The SATIN system consists of a haptic interface, including two FCS-HapticMaster devices connected and integrated with a new haptic strip for shape evaluation and modification. The user can explore and evaluate a surface shape along a trajectory interactively defined by slipping her fingers on the haptic strip that takes the shape of the curve on the virtual model. The shape can be modified by exerting pressure on the haptic strip in single points, or by applying traction/compression and flexion/torsion at the ends of the strip. The visualization system is rear-projection based. The user wears stereoscopic glasses for 3D models viewing; her viewpoint is driven by an optical tracking system. The virtual shape is precisely superimposed to and co-aligned with the haptic strip in order to mimic real life situations. The system also provides metaphoric sounds related to geometric characteristics of the explored shape (curvature, discontinuities, etc.) and also provides feedback about the user's actions (i.e. forces applied during shape manipulation).

 [Click here to return to Contents](#)

VISTAGY Partners with Maxoft to Expand its Presence in the Growing Korean Composites Market

24 November 2009

VISTAGY, Inc. announced a strategic partnership with Maxoft, Inc., a Korean-based supplier of virtual product development (VPD) software and services that is delivering composites solutions for the aerospace, wind, automotive and marine markets. The partnership will enable Maxoft to anchor its composites portfolio with FiberSIM® software and further extend VISTAGY's reach in this dynamic market.

VISTAGY has a successful history of working with the Korean aerospace industry. Recognizing the growth of composites in quickly expanding markets such as wind energy, VISTAGY plans to expand its operations in Korea. VISTAGY chose to partner with Maxoft because the company has a history of embracing new approaches and solutions and delivering them in a timely manner. As Korea's large and small organizations gravitate to lucrative emerging markets, they look to companies such as Maxoft and VISTAGY to stay ahead of the curve by helping them implement new processes and materials.

"The use of composite materials and need for specialized solutions to engineer products made of these materials are both expanding rapidly in Korea," said Sungha Oh, CEO of Maxoft. "The partnership with [VISTAGY](#) is therefore extremely important for us to deliver effective solutions to our prospects and customers. Because FiberSIM is the leading software for engineering composite products in the global aerospace, wind, marine and automotive industries, we are confident that we will be able to extend VISTAGY's leadership position in the Korean market."

"While opportunities in Korea continue to grow within existing industries, such as aerospace, the expansion into new markets, such as wind power, is exciting for us," said Mamoru Iguchi, general manager of VISTAGY for Asia Pacific. "Maxoft provides a strong technical presence for VISTAGY in Korea, which is absolutely critical for supporting our customers and ensuring their success."

Maxoft Business Contact in Korea

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Title: Senior Sales manager

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E-mail: shlee@maxoft.net

About MAXOFT, Inc.

Maxoft, Inc., a Korea-based company, offers virtual product development (VPD) products. The company offers and supports applications utilizing network and server-based collaboration and conferencing software; consulting and integration services for design; analysis-oriented custom application development; and high performance computing (HPC) infrastructure deployment.

Maxoft has grown rapidly since it was founded. Now serving many large manufacturers, including such firms as Hyundai Motor Company, Korea Institute of Machinery and Materials, and Hyundai Heavy Industries, Maxoft's professionals apply technology to help these companies overcome their engineering and manufacturing challenges. Maxoft has extensive expertise in VPD software and engineering consulting, and works closely with MSC.Software Korea—one of the largest mechanical CAE vendors in

Korea-and its customers. More information is available at <http://www.maxoft.co.kr> or postmaster@maxoft.co.kr.

 [Click here to return to Contents](#)

Events News

Cimatron to Display Latest Die Design Solutions at BLECHEXPO

24 November 2009

Cimatron Limited announced that it will exhibit its latest Die Design solution at the BLECHEXPO Die Making Tradeshow in Germany (Hall 4, Booth 4208-1), December 1-4, 2009.

New enhancements to the Die Design solution increase automation, improve analysis capabilities, and handle changes across the entire die design process including forming, strip and tool design.

Enhancements include:

- Ability to pre-define parameters related to tool design and material used in order to further automate the tool design process.
- Improvements to dedicated applicative tools: The time-saving unbending capabilities have been enhanced to work in more situations including "unfold" and "L-Unbend", for unbending sharp corners.
- New piercing design functionality allows users to easily plan the piercing sequence of array of holes and create the suitable faces.
- Easy implementation of geometry changes in each of the forming shapes and stations across the project.
- A new die forces analysis tool which calculates the forces applied on the strip during production, allowing for a quick estimate of the required press capacity.

[Cimatron](#) GmbH will also be showcasing CimatronE's new DieQuote Solution, a new solution which helps die shop estimators reach a higher level of accuracy in record time.

CimatronE DieQuote is a "CAD to Cost" solution, which means it interprets CAD work to generate a cost estimate automatically. The die shop estimator can use CimatronE's advanced hybrid system, along with tools tailored to die making needs, to lay out the project quickly by only performing tasks necessary for creating a quote. All cost related factors established in the preliminary design are automatically interpreted into a cost estimate, which can then be fine-tuned by a die shop professional.

The solution includes a full range of quoting management features allowing users to re-use past quotes, track all job offers and easily store a wide range of cost-relevant information. Finalized price estimates are converted into ready-to-send, eye-catching, professional quotes.

"We look forward to showing visitors the competitive edge they can achieve by using CimatronE's dedicated 3D die making solution," said Dirk Dombert, General Manager of Cimatron GmbH. "Design

CIMdata PLM Industry Summary

features like accurate blanking capabilities and advanced analysis tools, as well as many tool design features, significantly increase accuracy and shorten delivery times."

 [Click here to return to Contents](#)

CimatronE Selected to Highlight Automation at EuroMold

25 November 2009

[Cimatron Limited](#) announced that CimatronE will be included in a special feature show about automation in mold and tool making at EuroMold, December 2nd-5th, in Frankfurt, Germany.

The special feature show on automation will take place in hall 8.0. CimatronE, a solution tailored to suit the needs of mold and die makers, has been chosen to participate in the show because of its impressive range of automatic features, allowing users to significantly speed up their tool design and manufacturing.

With this special show, EuroMold plans to show attendees current possibilities of automation within mold making and tooling. Eight machines will demonstrate the fully automatic process and the interaction of diverging technologies within one production cell. Each production cell will include a handling device with cartridges, two milling machines, two measuring machines, one washing plant and two EDM machines.

CimatronE has been developed on the principle of flexible automation. This means that while many tasks can be accomplished faster using automatic features, the user is in control of their process and can choose at any time to override all automatic functions, providing the tool maker with complete freedom.

CimatronE's automatic features include a wide range of tools dedicated to mold design. These tools help split the part and design the cavity, as well as streamline the assembly process and assist users in the design of runners, cooling channels, sliders and ejectors. Analysis tools are also available to help ensure the part's design is optimal for injection molding and to help tool makers handle last minute changes.

The CimatronE product line also includes an integrated solution for Electrode design and manufacture, which was praised by CIMdata as one of the most advanced available. The solution allows for swift design of electrodes and offers templates and other tools to speed up work.

NC programming (2.5-5-Axis) takes place in the same environment as design and is optimized for tool making, with several milling strategies that help the user achieve a high surface quality.

"We are proud of the balance we have reached with regards to automation and we believe this is why Euromold has chosen CimatronE for its feature show," said Dirk Dombert, General Manager of Cimatron GmbH. "Automation is useful because it can significantly reduce delivery time. On the other hand, no tool maker wants to give up control of their design and manufacturing processes to a wizard that claims to know best. With CimatronE's flexible automation, users take advantage of automation to speed up their manufacturing and always remain in complete control of their process."

Cimatron GmbH will demonstrate its two product lines at EuroMold, CimatronE and GibbsCAM, catering to all manufacturing sectors and offering specialized solutions for mold and die makers, as well as solutions for 2.5-5-Axis production milling and turning (hall 8, booth F70).

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

Dassault Systèmes Helps French Pavilion Become First World Expo Participant to Launch True Interactive 3D Pavilion

24 November 2009

Dassault Systèmes ([DS](#)) and the French Pavilion at the Shanghai World Expo 2010 unveiled the first true, interactive, 3D virtual pavilion among participants of World Expo Online 2010, bringing real time 3D interactivity and 360-degree immersive walkthrough experience to hundreds of millions of online visitors.

The French Pavilion is building up a vivid counterpart in the virtual world by using Dassault Systèmes' 3DVIA Virtools software to compliment the Pavilion's theme of "Sensual City." Visitors can freely walk through the pavilion, both inside and outside, as if they were in the physical pavilion, viewing the French-style rooftop garden and masterpieces of the Musée d'Orsay. Through 3D technology, visitors can also enjoy 3D interactivity, such as participating in mini games to virtually experience the five senses, and "entering" masterpiece paintings such as Gauguin's "Le Repas" where they can navigate around the painting's subjects.

Jose Freches, Commissioner General of the French Pavilion, said "We are excited about being the first Expo participant to launch the interactive 3D virtual pavilion for the world's first Expo Online. This once again represents France's strong support for China's path of innovation. Thanks to 3DVIA Virtools' technology, the virtual pavilion provides a great platform for us to communicate with hundreds of millions of people about France's creative innovation, as well as the spirit of World Expo Shanghai."

"3D is becoming a universal language for people around the world to learn, discover and innovate," said Christian Nardin, president, Asia, Dassault Systèmes. "The virtual 3D French Pavilion is a further example of using 3D as a powerful medium to communicate, innovate, and share knowledge, all in a fun way. Dassault Systèmes has been dedicated to delivering true 3D lifelike experience that frees the imagination and allows for rich interactivity. Our ultimate goal is to enable sustainable innovation by leveraging 3D lifelike experience to make our world a better one."

Dassault Systèmes' 3DVIA Virtools offers interactive, multi-channel 3D experiences for a host of sectors, such as marketing, gaming, city planning, online shopping, etc. Recently, through a strategic partnership with Luc Besson's company, EuropaCorp, Dassault Systèmes has leveraged its interactive 3D technologies to enhance the customer experience of Nestlé Chocapic and Nesquik cereals by turning the packaged boxes into a full-fledged 3D video game console. In addition, the two companies have developed several creative marketing tools for the December launch of EuropaCorp's film 'Arthur and the Revenge of Maltazard,' allowing everyone to sing and dance in 3D within the "Minimoys'" universe as if they were in the movie.

In China, in addition to supporting the first ever World Expo Online, 3DVIA Virtools was also the application used for the virtual design and rehearsal of the parade in celebration of the country's 60th anniversary this year.

 [Click here to return to Contents](#)

Delcam to Launch New PowerINSPECT at Euromold

23 November 2009

Delcam will launch the new, 2010 version of its PowerINSPECT inspection software at the Euromold exhibition to be held in Frankfurt from 2nd to 5th December. This latest release offers even easier

CIMdata PLM Industry Summary

inspection of parts, tooling and prototypes against CAD data. The system is a world's leading hardware-independent inspection software, and this new version making it even more attractive to users of all types of metrology equipment, including manual and CNC CMMs, inspection arms and optical devices.

In the 2010 version, the creation and editing of inspection sequences has been improved by adding the ability to insert extra points or features anywhere within the sequence, not just at the end. This will be useful for all users but especially for those creating inspection sequences with larger numbers of measurements. It will also make it easier to update complex sequences during long production runs, when process or design changes require modifications to the inspection routine.

The 'simple measures' functionality included in the previous PowerINSPECT release has been extended in the latest version. The range of pre-defined inspection sequences for common measurement patterns has been increased, and simple alignments have been introduced.

The GD&T Wizard has also been improved and simplified. PowerINSPECT now offers the ability to select features from the CAD view, with item types shown by an icon, making selection easier.

PowerINSPECT 2010 includes improved simulation for checking sequences that are to be run on CNC CMMs or to be used for On-Machine Verification. The collision checking has been made more flexible and easier to use, with options to stop the sequence automatically once a collision is detected and to continue the simulation until the next problem is found.

The ability to reuse measurement results has been extended. PowerINSPECT 6 introduced the ability to create a feature from a combination of other features, for example, to combine the results from a series of circles to create the inspection report for a cylinder. PowerINSPECT 2010 builds on this functionality with the new 'point source' feature which gives the ability to define these relationships offline. This improves consistency for batch measurement, with the measurements being able to be reused in the same way for every component.

Finally, labels for reporting purposes can be attached to selected points within point clouds generated by laser scanners. For example, the user could highlight in the report the points that are furthest out of tolerance or could identify critical points in the design for detailed reporting.

 [Click here to return to Contents](#)

ESPRIT by DP Technology at EuroMold 2009, Frankfurt, Germany, Dec. 2-5

20 November 2009

The latest version of computer-aided-manufacturing (CAM) software created by [DP Technology](#) will be on display Dec. 2-5 in Frankfurt, Germany, where ESPRIT® will be featured at EuroMold 2009.

This 16th edition of EuroMold, slated to take place at the Frankfurt Exhibition Center, is a world fair for moldmaking and tooling, as well as design and application development.

Knowledgeable and approachable representatives exhibiting ESPRIT at the show will be happy to help with any questions, and to discuss the new features in the software.

Designed with ease of use in mind, ESPRIT emphasizes the use of milling and, or, turning in any combination and on any type of machine tool, which means that most improvements to the software are to the benefit of all programmers.

ESPRIT's new patent-pending FreeForm 5-axis composite machining cycle allows users to

CIMdata PLM Industry Summary

independently define machining patterns and tool orientation strategies to be used when creating simultaneous 5-axis tool path, and includes 20 different machining strategies (cycles) in one, resulting in a wide range of easily manageable possibilities. The new ESPRIT composite machining cycle gives the user the ability to perform simultaneous 5-axis machining for a wide variety of different parts and industries, including aerospace, medical, and automotive, through one simple user interface.

This new concept in highly-advanced machining functionality is based on the idea that any five-axis machining function, no matter how complex, can be defined with a few simple steps. By following the same time-tested steps that programmers use when deciding how to machine 5-axis parts, an advanced CAD/CAM system can combine highly advanced milling technology with an interface that is familiar and easy to understand.

 [Click here to return to Contents](#)

Exciting 3D Printing Advances from Objet Attract EuroMold 2009 Attendees

23 November 2009

Attendees of EuroMold 2009 will see a miniature sports car and a biorobotic snake designed and produced by customers of Objet Geometries, a leader in 3D printing. Presentations, courtesy of Nimrod Racing and the Technion Institute, will take place every two hours throughout the duration of the event, which will be held Dec 2-5 in Frankfurt, Germany (HALL 11, STAND C-92).

Objet will also showcase several of its 3D printers, all of which create durable, high-quality models with exceptional levels of detail and clean, smooth surfaces. These systems include:

- Alaris30™, a first-of-its-kind, office-friendly, affordable 3D printer - small enough to fit on a desk - that creates first-class models at minimal cost, enabling more companies to enjoy the benefits of the technology. The system will also be showcased at the booth for CAD.de, the biggest online forum for German-speaking computer designers.
- From the professional line, Eden family of 3D printers, Eden500V™ and Eden260V™. The Eden500V is an ideal Objet solution for large-size model requirements or when high productivity is vital. The Eden260V is a system for smaller offices and will be accessible at the adjacent booth of Objet's Germany-based partner, RTC.
- Released this June, Connex350™, the second in Objet's Connex family, which represents the world's only family of 3D printing systems that allows product developers and manufacturers to simultaneously print multiple materials with different mechanical and

CIMdata PLM Industry Summary

physical properties. Its predecessor, the Connex500™, a multi-material 3D printer, won the EuroMold Innovation Award in 2007. To convey details on the Connex350, Objet will offer presentations in German every two hours throughout the event.

"We are extremely proud to share our latest innovations in 3D printing with the participants of this year's EuroMold event, and are especially pleased to be joined by loyal Objet customers," said David Reis, CEO of Objet Geometries. "These systems all cut significant time and spending from the product development process, offering manufacturers and designers a distinct edge over the competition."

[Objet](#) systems utilize PolyJet™ and PolyJet Matrix™ Technology, which work by jetting proprietary materials in ultra-thin layers, immediately curing each layer with UV light. The process yields models that closely emulate the look, feel and function of an exceptionally wide variety of end products.

Connex multi-material 3D printing systems offer specialized capabilities, which Objet will demonstrate at EuroMold with a "just-released" digital materials pack. This offering allows Connex users to combine materials for models that are more suitable than ever for product-design testing, simulation and validation. It allows for the creation of 18 new materials, which characterize a wide range of rubber/elastomer based products, and can be used to print a wide variety of parts, such as wires and cables, grips and handles, plugs and connections, shock absorbers, function buttons, gaskets and seals, among other rubber applications.

 [Click here to return to Contents](#)

ProSTEP iViP Symposium 2010 - Register Now and Save

November 2009

The ProSTEP iViP Symposium has established itself as an important platform on the subject of product data and process integration over the years. This is proven by a consistently high attendance, even in 2009 in spite of the economically difficult times.

The ProSTEP iViP Association, together with the sponsors Daimler AG and Siemens PLM, extend an invitation to the next ProSTEP iViP Symposium. The event will be held under the motto: "Smarter Solutions for New Products" on April 28th and 29th, 2010 in the Ludwig Erhard Haus in Berlin.

Even or especially in times of crisis innovation and research should be considered a priority and an investment into the future despite any saving measures. Therefore do not pass up the opportunity to participate in this event and register right away.

In addition to the event program the accompanying exhibition, already booked by well-known companies, provides an ideal information and communication platform. There will also have a chance for personal and inspiring conversations with partners, customers or suppliers at the traditional evening event.

Use your remaining budget and register now. This way you will be able to save about 10% of the regular participation fee. **This offer is only valid until January 29th, 2010.**

Further information on the ProSTEP iViP Symposium is available at: <http://www.prostep.org>

 [Click here to return to Contents](#)

PTC Announces Direct Modeling Webinar

November 2009

[Join PTC for a live webinar](#), with Q&A, to find out how CoCreate Explicit Modeling:

- Offers the superior, reliable approach
- Compares to competitors' direct modeling approaches
- Delivers real value to your product development process

PTC will also cover:

- Reacting to rapidly changing market conditions and customer requirements
- Leveraging engineering IP across teams
- Increasing innovation and speed through all stages of the product design process
- Improving data leverage throughout the design chain

Register Now!

December 8 [Learn What Sets CoCreate's Explicit Modeling Apart From Direct Modeling](#)

December 10 [Learn What Sets CoCreate's Explicit Modeling Apart From Direct Modeling](#)

 [Click here to return to Contents](#)

Sescoi's Technical Sessions Launch WorkNC V20 across the USA

23 November 2009

Sescoi went [on tour in the USA](#) to demonstrate the latest version of its CAD/CAM software, WorkNC V20, to users in some of the most industrial areas of the country. Stopping in Detroit, Grand Rapids, Akron and Cincinnati, the company welcomed a host of engineers and machinists to its October technical sessions. SESCOI's U.S. customers include General Motors, Roush, Anderson Global, H.S. Die, Commercial Tool & Die Inc., and Decatur Mold Tool & Engineering Inc.

A host of new features make this latest WorkNC version a major step forward in productivity. One such feature is the ability to machine undercut areas of a tool with one cutterpath. These undercuts can be done in either a 3-axis or 5-axis fashion.

Auto 5, WorkNC's automated 5-axis programming, has been joined by a new module which automates 3+2 programming in WorkNC V20. Auto 3+2 works in a similar way to Auto 5, the programmer defines a 3-axis toolpath and WorkNC automatically changes the toolpath to 3+2, where the tool is unable to reach the job. The advantages are that it makes the process very easy, enables more of the part to be finished on the same machine, and makes the most of the capabilities of older and larger machines, increasing their efficiency, and reducing cycle times.

A brand new machining strategy combines Z-Level Finishing and Optimized Z-Level Finishing into one toolpath, which considers the topology of the component to completely machine it in one operation. This

CIMdata PLM Industry Summary

simplifies and speeds up programming by eliminating duplicate cutterpaths and maximizing productivity.

Users can now define conical cutters in WorkNC V20. These enable them to achieve higher feed rates and an improved surface finish, as well as avoiding rubbing walls with the side of the tool. These new cutter types are particularly useful for WorkNC's improved Global Roughing/Reroughing strategy. Using small cutters with a matching stepover simplifies the set-up for the programmer and reduces calculation times which is especially beneficial for larger components.

Several changes to the way in which WorkNC V20 calculates toolpaths have improved overall programming productivity. Stock models can now be saved, and toolpath parameters such as lead-in and retract movements can be changed without the need for recalculation.

In addition to WorkNC V20, Tech session participants were given an overview of the MyWorkPLAN job shop management system and [WorkXPlore 3D](#), SESCOI's high-speed 3D viewer.

WorkXPlore 3D enables collaborative working by importing and analyzing CAD data from multiple sources and sharing this around an organization and its supply chain. Low cost and free versions of the software combine to make this a very attractive solution for companies needing to produce the best possible designs quickly and share design data with large numbers of collaborators.

Links to the [MyWorkPLAN](#) Estimator module allow the optimized design data from WorkXPlore 3D to be used to create accurate quotations in a matter of minutes. Utilization of historic information, built up both inside and outside MyWorkPLAN, enables users to plan their jobs effectively.

Companies using MyWorkPLAN have reported double digit growth in orders, thanks to the fast response and competitive pricing they now offer to their customers. Combined with the reduction in administrative load and cost control enabled by the software, SESCOI was able to demonstrate to job shop managers at the U.S. Tech sessions how this solution could have a significant impact on profitability, making it a valuable addition to their WorkNC system.

 [Click here to return to Contents](#)

Sivan Design Announces Version 2.0 Release of its 3D Simulation Software Civil Simulate

24 November 2009

Sivan Design announced version 2.0 release of its 3D simulation software Civil Simulate, supporting Civil 3D 2010 and Windows 7 (32/64 Bit).

Civil Simulate is an interactive 3D visualization and simulation tool for AutoCAD(R) Civil 3D(R) and CivilCAD offering a unique approach to overcoming the challenge of turning civil engineering design into highly sophisticated 3D simulation.

From loading orthophoto raster images onto the simulation to interactive drive-through simulation from the driver's point-of-view, Civil Simulate does it all with ease and an accuracy of +/- 0.8 inch to the CAD drawing.

The current release incorporates two new features including automatic creation of intersections and bridges and enhanced support for large scale projects. The software user interface incorporates the same Ribbon style from Civil 3D 2010 and is simple and intuitive - as expected from Sivan Design's products.

Sivan Design's CEO, Shlomi Sivan, said: "It is a great pleasure for us to introduce the current release of

CIMdata PLM Industry Summary

Civil Simulate, which represents the future in civil engineering design processes by offering on-the-spot evaluation in a realistic 3D environment of any change made to the design, even while still in preliminary stages."

Visitors of the annual Autodesk University (AU) 2009 user conference and exhibition in Las Vegas (Dec. 1-3, 2009) are invited to visit Sivan Design's booth #310 for ongoing live demonstrations of Civil Simulate's capabilities.

For more information please visit: <http://www.sivandesign.com>

 [Click here to return to Contents](#)

SURFCAM V5 to Showcase at Euromold 2009

23 November 2009

Surfware, Inc. will be demonstrating the up and coming release of SURFCAM V5 along with the revolutionary patented TrueMill® Milling Technology at EUROMOLD 2009, a leading trade fair for Moldmaking and Tooling, Design and Application Development in Frankfurt, Germany lasting from December 2 to December 5, 2009.

Surfware in cooperation with 3D Concepts GmbH, Dealer of the Year for 2008, will be showcasing SURFCAM V5 in Hall 8, Booth F110 during the event. One of the highlights of the four day event will be the LIVE machining demonstrations throughout the day which will show reductions in cycle times of up to 50% in Titanium and Hard Steel (45RC).

"In today's economy, it's all about increasing your company's productivity, which means reducing cycle times on the shop floor," says Peter Marton, Sales Managing Director at Surfware. "The patented TrueMill Milling Technology has once again demonstrated drastic reductions in cycle times as well as leaps in productivity gains in some of the most difficult to machine materials, such as Titanium, Inconel, and Hard Steels. For example, the ability to machine Titanium on a HAAS machine, removing 4 cubic inches of material per minute with a ½" diameter endmill, cutting 1" deep at 115 inches per minute is Truly Amazing! To cut your machining time in half is one of the tangible results our customers are looking for in today's market. These spectacular results can be achieved with TrueMill toolpaths because the toolpath is controlled and programmed with a user defined Tool Engagement Angle instead of the stepover or offset approach."

Demonstrations will also be given throughout the week on the new enhancements and improvements in SURFCAM V5. Included in this next release will be added TrueMill functionality, Lathe and Mill/Turn Enhancements, Additional 5-Axis functionality and Multiple Tool Rest-Roughing, just to name a few.

For more information about SURFCAM, or to locate your local SURFCAM reseller, go to <http://www.surfware.com> or email info@surfware.com.

 [Click here to return to Contents](#)

TopSolid'Mold 2010 on its Way

November 2009

[Missler Software](#) has announced the launch of TopSolid'Mold 2010 which will be released in February 2010. TopSolid'Mold is an integrated CAD/CAM solution for the design of molds and the machining of

CIMdata PLM Industry Summary

tools for mold makers and cutting tool makers. To be efficient a CAD mold making solution should propose increased automation for repetitive mold design operations. In order to manage all projects the CAD software should ideally be completely integrated with a CAD/CAM solution that can manage all shaped forms, general mechanical engineering and machining operations in a parametric and associative way. Thanks to these qualities TopSolid'Mold has become a worldwide reference in the design and manufacture of molds.

TopSolid'Mold manages the design of the mold, the machining of the mold base, milling mold cavities, electrode production and mold assembly.

Advanced collaborative work possibilities

Since the 2009 version TopSolid'Mold manages the design of a mold in a collaborative environment. Several designers can now work on the same project at the same time. An example of this principle would be a detailed plate where one operators looks after cooling circuits and another looks after movement definition. TopSolid's collaborative work options, which are unique on the market, offer significant productivity gains in complex tool design. TopSolid'Mold 2010 offers important improvements in collaborative design thanks to its improved ergonomY and advanced management of modification conflicts.

Improved positioning of runners and gates

TopSolid'Mold 2010 offers functions for the design and management of various feeding elements (positioning of gates, runners, injection sections ...)

New standard component libraries

On average 70% of a manufactured product is made up of standard elements. Hence the need to constantly improve and offer more standard components. TopSolid'Mold 2010 offers new and more complex components such as equipped drawers.

Improved attribution tools : manage imported elements as if you created them yourself

TopSolid'Mold 2010 allows users to use elements imported from a component supplier's website. By using the new « Plate Allocation » function an imported mold base will behave in the same way as a mold base designed natively using TopSolid.

Direct link with CadMould, plastic injection simulation solution

The direct link with the CadMould software allows TopSolid customers to directly benefit from the advantages of plastic simulation. This new partnership offers TopSolid'Mold users an optimised tool for the design of plastic parts and can be used as a first step in determining the feasibility, quality and cost of designing their parts and injection molds.

For further information we will be happy to welcome you on our booth at EuroMold : hall 8, stand 56, 2 – 5 December 2009, Frankfurt.

 [Click here to return to Contents](#)

Financial News

Autodesk Increases Profitability in Third Quarter Fiscal 2010

17 November 2009

CIMdata PLM Industry Summary

Autodesk, Inc. reported financial results for the third quarter of fiscal 2010.

- Revenue was \$417 million, flat sequentially, and a decrease of 31 percent compared to the third quarter of fiscal 2009.
- GAAP diluted earnings per share were \$0.13, compared to GAAP diluted earnings per share of \$0.05 in the second quarter of fiscal 2010, and \$0.45 in the third quarter of fiscal 2009.
- Non-GAAP diluted earnings per share were \$0.27, compared to non-GAAP diluted earnings per share of \$0.24 in the second quarter of fiscal 2010, and non-GAAP diluted earnings per share of \$0.56 in the third quarter of fiscal 2009. A reconciliation of the GAAP and non-GAAP results is provided in the accompanying tables.

“Our business appears to be increasingly stable,” said Carl Bass, Autodesk president and CEO. “We posted sequential increases in a number of important metrics including revenue from commercial new seat licenses, revenue from our Americas and EMEA geographies, revenue from our 2D horizontal solutions, and revenue from our 3D animation solutions. These results reflect the business environment that began stabilizing in the second quarter of this fiscal year.

“In addition, our efforts to reduce operating expenses resulted in a sequential increase in profitability for the second consecutive quarter,” continued Bass. “While there are several data points in our business that are encouraging and represent positive indicators for our business, the health of the global economic environment remains mixed and the continued job losses in our core markets represent ongoing challenges to a swift recovery in our business.”

Operational Overview

Revenue in the Americas increased 2 percent sequentially to \$164 million and decreased 25 percent compared to the third quarter of fiscal 2009. EMEA revenue increased 1 percent sequentially as reported, to \$159 million, and declined 3 percent on a constant currency basis. EMEA revenue decreased 38 percent compared to the third quarter of fiscal 2009 as reported, and 35 percent on a constant currency basis. Revenue in Asia Pacific was \$94 million, a decrease of 4 percent sequentially as reported, and 7 percent on a constant currency basis. Revenue in Asia Pacific decreased 29 percent compared to the third quarter of fiscal 2009 as reported, and 33 percent on a constant currency basis.

Revenue from emerging economies was \$62 million, a decline of 2 percent sequentially as reported and 3 percent on a constant currency basis. Revenue from emerging economies decreased 46 percent compared to the third quarter of fiscal 2009 as reported and 45 percent on a constant currency basis. Revenue from emerging economies represented 15 percent of total revenue in the quarter.

Combined revenue from Autodesk's model-based 3D design solutions was \$122 million, flat sequentially and a decline of 25 percent compared to the third quarter of fiscal 2009. Revenue from 2D horizontal and vertical products was \$189 million, a slight decrease sequentially and a decline of 37 percent compared to the third quarter of fiscal 2009. Combined revenue from our AutoCAD and AutoCAD LT products increased 2 percent sequentially and decreased 39 percent compared to the third quarter last year.

“With more than \$1 billion in cash and investments, no debt, and positive cash flows, Autodesk remains in solid financial condition,” continued Bass. “We are on track to deliver more than \$300 million in pre-tax cost savings in fiscal 2010 compared to fiscal 2009. We will continue to strive to increase our efficiencies and profitability while making essential investments for the future.”

CIMdata PLM Industry Summary

During the current quarter, Autodesk determined that the way in which its third-party software application accounted for estimated forfeitures in stock-based compensation calculations was incorrect. As a result, fiscal third quarter 2010 GAAP results include a one-time adjustment to increase stock-based compensation expense by \$7.9 million net of tax, or approximately \$0.03 per diluted share. This is a cumulative adjustment from prior periods. For the nine month period ended October 31, 2009 the cumulative adjustment from prior periods was \$6.8 million net of tax or \$0.03 per diluted share.

Business Outlook

The following are forward-looking statements that are based on current expectations that involve risks and uncertainties, some of which are set forth below.

Fourth Quarter Fiscal 2010

For the fourth quarter, Autodesk expects revenue to be in the range of \$420 million to \$440 million. GAAP earnings per diluted share are expected to be in the range of \$0.07 and \$0.12. Non-GAAP earnings per diluted share are expected to be in the range of \$0.19 and \$0.24, excluding \$0.06 related to stock-based compensation expense and \$0.06 for amortization of acquisition related intangibles.

Full Year Fiscal 2010

Net revenue for fiscal 2010 is expected to be in the range of \$1.68 billion and \$1.7 billion. GAAP earnings per diluted share are expected to be in the range of \$0.11 and \$0.16. Non-GAAP earnings per diluted share are expected to be in the range of \$0.88 and \$0.93 and exclude \$0.29 related to stock-based compensation expense, \$0.18 for the amortization of acquisition related intangibles, \$0.15 for restructuring charges, \$0.06 related to goodwill impairment, and \$0.09 related to the establishment of a valuation allowance on deferred tax assets.

In addition, Autodesk anticipates total GAAP pre-tax spend (operating expenses plus cost of goods sold) for fiscal 2010 to range between \$1.65 billion and \$1.66 billion, which is lower than fiscal 2009 by between \$407 and \$417 million. The company anticipates total non-GAAP pre-tax spend (operating expenses plus cost of goods sold) for fiscal 2010 to range between \$1.42 billion and \$1.43 billion, which is lower than fiscal 2009 by between \$300 and \$310 million. Total non-GAAP pre-tax spend excludes approximately \$95 million of stock-based compensation expense, \$60 million of amortization of acquisition related intangibles, \$50 million of restructuring charges and \$20 million of goodwill impairment charges, which are included in total GAAP pre-tax spend.

First Quarter 2011 and Full Year Fiscal 2011

Autodesk is not providing specific revenue or EPS guidance for fiscal 2011 at this time. However, in the first quarter of fiscal 2011, GAAP operating margin is expected to increase year-over-year as the company recorded significant impairment charges in the first quarter of fiscal 2010 that it does not anticipate recording in fiscal 2011. Non-GAAP operating margin in the first quarter of fiscal 2011 is anticipated to be flat to slightly down compared to the first quarter of fiscal 2010, as a result of normal seasonality and the return of some costs that were suppressed in the first quarter of fiscal 2010.

GAAP operating margin for the full year fiscal 2011 is expected to increase as the company recorded significant impairment charges in fiscal 2010 that it does not anticipate recording in fiscal 2011. Autodesk anticipates modest improvement in non-GAAP operating margin for full year fiscal 2011 compared to fiscal 2010.

Non-GAAP operating margin excludes stock-based compensation expense, amortization of acquisition

CIMdata PLM Industry Summary

related intangibles, restructuring charges and goodwill impairments.

Earnings Conference Call and Webcast

Autodesk will host its third quarter conference call today at 5:00 p.m. EST. A replay of the broadcast will be available at 7:00 pm EST at <http://www.autodesk.com/investors>. This replay will be maintained on our website for at least twelve months.

Further details:

To read prepared remarks, [click here](#).

For the webcast replay, [click here](#).

For the Q3FY10 Earnings Release, [click here](#).

 [Click here to return to Contents](#)

HP Reports Fourth Quarter 2009 Results

23 November 2009

- Fourth quarter GAAP diluted EPS of \$0.99, up 18% from \$0.84 a year earlier
- Fourth quarter Non-GAAP diluted EPS of \$1.14, up 11% from \$1.03 a year earlier
- Fourth quarter net revenue of \$30.8 billion, down 8% or down 5% in constant currency from the prior year; up 12% sequentially
- Fiscal 2009 net revenue of \$114.6 billion, down 3% or up 1% in constant currency
- Services margins up nearly 5 points with significant growth in signings
- HP claims top spot in U.S. enterprise PC market with double-digit Y/Y share gains
- China fourth quarter revenue up more than 20%

HP announced financial results for its fourth fiscal quarter ended Oct. 31, 2009, with net revenue of \$30.8 billion, down 8% from a year earlier and down 5% when adjusted for the effects of currency.

In the fourth quarter, GAAP diluted net earnings per share (EPS) were \$0.99, compared with \$0.84 in the prior-year period. Non-GAAP EPS were \$1.14, compared with \$1.03 in the prior-year period. Non-GAAP financial information excludes after-tax costs related primarily to the amortization of purchased intangibles, restructuring charges and acquisition-related charges of approximately \$0.15 per share and \$0.19 per share in the fourth fiscal quarter of 2009 and 2008, respectively.

“HP’s solid performance in Services drove record profit, and the accelerated pace in signings creates strong momentum going into 2010,” said Mark Hurd, chairman and chief executive officer, HP. “Our operational execution and improving cost structure generated strong quarterly and year-end results. We expect to outperform the market due to our significant scale, broad portfolio and market-leading position.”

	Q4 FY09	Q4 FY08	Y/Y	FY09	FY08	Y/Y
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CIMdata PLM Industry Summary

Net revenue (\$B)	\$ 30.8	\$ 33.6	-8%	\$ 114.6	\$ 118.4	-3%
GAAP operating margin	10.2%	8.2%	2.0 pts	8.8%	8.8%	0.0 pts
GAAP net earnings (\$B)	\$ 2.4	\$ 2.1	14%	\$ 7.7	\$ 8.3	-8%
GAAP diluted EPS	\$ 0.99	\$ 0.84	18%	\$ 3.14	\$ 3.25	-3%
Non-GAAP operating margin	11.8%	10.1%	1.7 pts	11.0%	10.0%	1.0 pts
Non-GAAP net earnings (\$B)	\$ 2.8	\$ 2.6	7%	\$ 9.4	\$ 9.3	1%
Non-GAAP diluted EPS	\$ 1.14	\$ 1.03	11%	\$ 3.85	\$ 3.62	6%

Full Year Fiscal 2009

Net revenue for the full fiscal year 2009 was \$114.6 billion, down 3% compared with the prior-year period or up 1% when adjusted for the effects of currency. GAAP operating profit was \$10.1 billion and GAAP diluted EPS was \$3.14, down from \$3.25 in the prior year. Non-GAAP operating profit was \$12.6 billion, and non-GAAP diluted EPS was \$3.85, up from \$3.62 in the prior-year period. Non-GAAP financial information excludes \$1.7 billion of adjustments on an after-tax basis, or \$0.71 per diluted share, related to the amortization of purchased intangible assets, restructuring charges, acquisition-related charges and in-process research and development charges.

“Relentless focus on driving efficiencies across the business has given HP a significant competitive advantage,” said Cathie Lesjak, executive vice president and chief financial officer, HP. “Our skill in executing strong acquisitions and integrating them seamlessly improves the value of our portfolio, strengthens the business and contributes to our ability to expand in key growth markets in the future.”

Fourth quarter revenue declined 3% in the Americas to \$13.6 billion. Revenue was down 17% in Europe, the Middle East and Africa and 1% in Asia Pacific to \$11.7 billion and \$5.4 billion, respectively. When adjusted for the effects of currency, revenue was down 1% in the Americas while declining 10% in Europe, the Middle East and Africa and 1% in Asia Pacific versus the prior-year period. Revenue from outside of the United States in the fourth quarter accounted for 64% of total revenue, with revenue in the BRIC countries (Brazil, Russia, India and China) declining 4% over the prior-year period while accounting for 10% of total HP revenue. China revenue increased more than 20% from the prior year.

Services

[Services](#) revenue increased 8% to \$8.9 billion. Infrastructure Technology Outsourcing reported revenue of \$4.1 billion while Technology Services, Application Services and Business Process Outsourcing posted revenue of \$2.5 billion, \$1.5 billion and \$778 million, respectively. Operating profit was \$1.4 billion, or 16.2% of revenue, up from \$945 million, or 11.4% of revenue, in the prior-year period. With the EDS integration tracking ahead of plan, services ended the fiscal year with strong momentum in signings and a significant number of new logo wins.

Enterprise Storage and Servers

Enterprise Storage and Servers (ESS) reported total revenue of \$4.2 billion, down 17%. Storage revenue declined 20% with the midrange EVA product line down 23%. Industry Standard [Server](#) revenue declined 10% and Business Critical Systems revenue declined 33%, while ESS blade revenue was down 8%. Operating profit was \$481 million, or 11.4% of revenue, down from \$705 million, or 13.9% of revenue, in the prior-year period.

HP Software

[HP Software](#) revenue declined 16% to \$967 million. Business Technology Optimization revenue declined 16% and Other Software revenue declined 15% over the prior-year period. Operating profit was \$234 million, or 24.2% of revenue, up from \$211 million, or 18.4% of revenue, in the prior-year period.

CIMdata PLM Industry Summary

Personal Systems Group

Personal Systems Group (PSG) posted an increase of unit shipments of 8% and maintained the leading market share position in PCs worldwide. PSG revenue declined 12% to \$9.9 billion. Notebook revenue for the quarter was down 8%, while Desktop revenue declined 16%. Commercial client revenue was down 15%, while Consumer client revenue decreased 8%. Operating profit was \$460 million, or 4.7% of revenue, down from \$616 million, or 5.5% of revenue, in the prior-year period.

Imaging and Printing Group

Imaging and Printing Group (IPG) revenue declined 15% to \$6.5 billion. Supplies revenue was down 8% while Commercial hardware revenue and Consumer hardware revenue declined 32% and 17%, respectively. Printer unit shipments decreased 20%, with Commercial printer hardware units down 38% and Consumer printer hardware units down 14%. Operating profit was \$1.2 billion, or 18.1% of revenue, versus \$1.2 billion, or 15.3% of revenue, in the prior-year period.

HP Financial Services

HP Financial Services (HPFS) reported revenue of \$726 million, up 5% from the prior-year period. Financing volume increased 6%, and net portfolio assets increased 21%. Operating margin was 9.1% of revenue, up from 7.4% in the prior-year period.

Asset management

HP generated \$3.4 billion in cash flow from operations for the fourth quarter. Inventory ended the quarter at \$6.1 billion, down 4 days. Accounts receivable of \$16.5 billion was up 3 days. Accounts payable ended the quarter at \$14.8 billion, up 5 days. HP's dividend payment of \$0.08 per share in the fourth quarter resulted in cash usage of \$190 million. HP utilized \$2.1 billion of cash during the fourth quarter to repurchase approximately 46 million shares of common stock in the open market. HP exited the quarter with \$13.4 billion in gross cash.

Outlook

For the first fiscal quarter of 2010, HP estimates revenue of approximately \$29.6 billion to \$29.9 billion, GAAP diluted EPS in the range of \$0.90 to \$0.92, and non-GAAP diluted EPS in the range of \$1.03 to \$1.05. First fiscal quarter 2010 non-GAAP diluted EPS estimates exclude after-tax costs of approximately \$0.13 per share, related primarily to the amortization of purchased intangibles, restructuring charges and acquisition-related charges.

HP estimates full fiscal year 2010 revenue will be approximately \$118.0 billion to \$119.0 billion, up from its previous estimate of \$117.0 billion to \$118.0 billion. Full fiscal year 2010 GAAP diluted EPS is expected to be in the range of \$3.65 to \$3.75, up from its previous estimate of \$3.60 to \$3.70, and non-GAAP diluted EPS is expected to be in the range of \$4.25 to \$4.35, up from its previous estimate of \$4.20 to \$4.30. Full fiscal year 2010 non-GAAP diluted EPS estimates exclude after-tax costs of approximately \$0.60 per share, related primarily to the amortization of purchased intangibles, restructuring charges and acquisition-related charges. These estimates for both the first fiscal quarter and full fiscal year of 2010 do not reflect the potential impact of the acquisition of 3Com Corporation that HP announced on Nov. 11, 2009.

Adoption of new accounting pronouncements

In the fourth quarter, HP early adopted two recently released accounting standards related to revenue recognition, Accounting Standards Update ("ASU") No. 2009-13 and ASU No. 2009-14 for transactions originating or materially modified in fiscal 2009. These accounting changes generally result in earlier revenue recognition than under previous guidance for certain deliverables in multiple-element arrangements. HP adopted these standards as of the beginning of fiscal 2009; therefore the previously reported quarterly results have been restated to reflect the impact of adoption.

CIMdata PLM Industry Summary

More information on HP's quarterly earnings, including additional financial analysis and an earnings overview presentation, is available on HP's Investor Relations website at www.hp.com/investor/home.

HP's Q4 FY09 earnings conference call is accessible via an audio webcast at www.hp.com/investor/q42009webcast.

 [Click here to return to Contents](#)

Mentor Graphics Corporation to Release Fiscal Q3 2010 Financial Results Thursday, December 3, 2009

23 November 2009

Mentor Graphics Corporation announced that they will release financial results for the company's third fiscal quarter, ended October 31, 2009, on Thursday, December 3, 2009 after close of market.

- Live audio webcast at http://www.mentor.com/company/investor_relations Please register at this website prior to the scheduled call time of 2:00 PM Pacific.
- Conference call replay: Begins 12/03/09 (4:00 PM Pacific) – Ends 12/10/09 (11:59 PM Pacific) USA 800-475-6701; International 320-365-3844; Access code: 124452

 [Click here to return to Contents](#)

Implementation Investments

Circa Corporation Transforms Business System with Fully Integrated BlueCherry® Suite

18 November 2009

Computer Generated Solutions Inc. ([CGS](http://www.cgs.com)) announced that fashion belt and accessories company Circa Corporation (<http://www.circacorp.com>) has agreed to replace its legacy business systems with the latest BlueCherry Infinity enterprise software suite. The new software will enable the San Francisco-based company to gain the control and efficiencies of a fully integrated business solution while leveraging the latest fashion-specific advancements in financial management, product development, sourcing and manufacturing. Circa anticipates that BlueCherry will increase its ability to control costs, communicate with vendors, speed new products to market, reduce chargebacks and increase customer satisfaction.

“In deciding to move away from our aging AS/400 business system, we wanted an integrated Windows-based solution that had the specific capabilities we need to improve the operational performance of our business,” noted Circa IT manager Hoang Nguyen. “After a thorough evaluation of both large and small system providers, we concluded that CGS and BlueCherry offered the best fit in terms of industry expertise, technology platform and overall integration.”

When implementation is completed in early 2010, the new system will provide product lifecycle management (PLM), enterprise resource planning (ERP), financial management (through Microsoft Dynamics) and complete integration with Circa's deployment of the CGS Leadtec shop floor control system. Also factoring into the selection, BlueCherry Infinity employs the latest Microsoft database technology (Microsoft SQL Server 2008) and development framework (Microsoft .NET) to deliver a comfortable and productive Office-like user experience.

In addition to overall process and business planning improvements, Circa will leverage BlueCherry

CIMdata PLM Industry Summary

Infinity to enhance collaboration and management of bills of materials, bills of labor, costing, royalties, bulk orders and other critical brand and private label business activities.

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Delcam's PartMaker Boosts Efficiency at Medical Device Manufacturer

24 November 2009

Using [Delcam](#)'s PartMaker CAM software has given medical device manufacturer C-Axis the ability to manufacture complex, high-quality medical parts very efficiently. The company uses a range of six multi-axis CNC mills and Swiss-type lathes, the most complex of which is a twelve-axis Star ECAS-20T. Of course, when programming such sophisticated parts on such complex machines, being able to quote, program and set jobs up efficiently is paramount.

Jeff Haley, the Founder and CEO of C-Axis Inc., recognised the opportunity for contract manufacturing of medical devices in Puerto Rico and opened a plant there in 2003, just six years after starting his company in Hamel, Minnesota. Since then, C-Axis's Puerto Rican operation has grown to over 50 employees to serve a number of the leading medical device companies on the island, including Medtronic, Stryker, Johnson & Johnson and U.S. Surgical among others.

"Our biggest challenges include designing a machining process that meets our quality standards, proving out the processes before interrupting the machine's production, and reducing our set-up times," says Mr. Haley. "Our PartMaker CAM software allows us to design and troubleshoot our processes off-line, on an inexpensive computer instead of on a very expensive machine tool. We can examine and optimise the process prior to even starting the set-up. When we load the programs and set up the machine, we are virtually ready to start production."

"Without the software, we would not be able to do as much complex milling as we do," says Jeff Geronsin, the plant's CNC programmer. "Even basic programming can be done with PartMaker in half the time that it used to take writing it manually. For example, if we are milling out pockets and decide to change an end-mill size, PartMaker can do calculations in seconds which could take hours when programming manually."

"Medical parts require a level of perfection that is not seen on other types of device," claimed Mr. Geronsin. "The cosmetic look of the part is very important to customers. As a result, we've had to do surface machining on our Swiss machines. Without PartMaker, we'd have had to turn down those components."

The geometric complexity of the medical parts is compounded by the complexity of the company's multi-axis Swiss-type lathes. Two of their Swiss machines, a Star ECAS 20 and ECAS-20T, require three simultaneous CNC programs to be written to support the machines' numerous axes. PartMaker lets the user quickly synchronize the machine's numerous programmable axes to achieve the optimum cycle time. Once the synchronization strategy has been set, the software displays a visual time study, showing the amount of time being spent on the main spindle, the amount of cycle time on the sub-spindle, and the overall cycle time incorporating any overlapping machining time. The results are shown in the form of a histogram that clearly indicates where additional opportunities for time savings exist. The software also produces accurate cycle times for use in quotations.

Once the process of developing tool paths and performing process synchronization is complete, the part can be simulated on screen in a vivid 3D simulation. This detects any tool collisions or machine crashes.

CIMdata PLM Industry Summary

With parts getting smaller and more complex, this visualisation capability is critical to the continued success at C-Axis.

 [Click here to return to Contents](#)

Digital Imaging Systems Achieves First-pass Silicon Success With Synopsys Galaxy Custom Designer

16 November 2009

[Synopsys, Inc.](#) announced that Digital Imaging Systems GmbH (DIS) has achieved first-pass silicon success using Synopsys' Galaxy Custom Designer™ implementation solution and its unified suite of circuit simulation, extraction and physical verification tools for a custom integrated circuit (IC) used in DIS' high-performance, multi-megapixel camera modules. The productivity enhancements afforded by Custom Designer, combined with its interoperable and open environment, enabled DIS to completely replace its existing flow and tape out a new IC design in under one month.

"Smart phone customers demand the highest-quality images, so it is critical that we deliver camera modules early enough to be built into the next generation of phones," said Roland Pudelko, CEO at DIS. "Synopsys' Custom Designer, coupled with expert field support, provides the most productive and complete custom implementation solution needed to meet our customers' requirements on schedule."

Product release cycles in the camera module market continue to shrink, and suppliers must keep pace with tight delivery schedules. DIS teamed with Synopsys to deploy Custom Designer to increase productivity and facilitate on-time delivery. Supported by Synopsys, DIS made a quick transition from their legacy point tool flow and proprietary databases, which helped them tape out ahead of schedule and achieve first-pass working silicon in just 22 days.

Custom Designer is a modern-era custom implementation solution that delivers ease-of-use and leverages Synopsys' Galaxy™ Implementation Platform to provide a unified solution for custom and digital designs. In addition to Custom Designer, DIS utilized Synopsys' HSPICE® circuit simulation solution to define and analyze their initial design. Once the design was functioning to specification, DIS used Custom Designer LE for layout, and Synopsys' Hercules™ physical verification and StarRC™ parasitic extraction solutions for physical verification. The post-layout design was verified with Synopsys' CustomSim™ FastSPICE simulator and then taped out from Custom Designer.

"The speed with which DIS deployed Custom Designer and achieved first-pass silicon success is testimony to the power of a unified platform for custom design," said Bijan Kiani, vice president of Product Marketing at Synopsys. "By using the Custom Designer implementation solution, DIS is now well-equipped to deliver the throughput and quality necessary to meet their customers' stringent requirements."

For more information about DIS, please visit <http://www.disimage.com>.

 [Click here to return to Contents](#)

Hynix Standardizes on Magma's FineSim Pro and FineSim SPICE for Full-Chip Verification of Large Memory Designs

23 November 2009

[Magma® Design Automation Inc.](#) announced today that Hynix Semiconductor Inc., a leading provider of memory products, has adopted and deployed FineSim™ Pro and FineSim SPICE as an integral part

CIMdata PLM Industry Summary

of its memory design and verification flow. Hynix standardized on Magma's advanced circuit simulation technology after an extensive evaluation involving a number of commercially available products and many different types of designs. The results of the evaluation demonstrated FineSim Pro's ability to deliver performance 3 times to 4 times faster than competitive products while increasing accuracy.

"The ability to deliver highly reliable memory products on time is critical to our success in the memory market," said Sang Il, senior MTS in Hynix's Computer-Aided Engineering Group. "We found through our evaluation that FineSim Pro and FineSim SPICE deliver best-in-class accuracy and performance, and help us meet our time-to-market goals by improving design verification productivity. FineSim Pro is easier to use than other products and achieves excellent results with default options out of the box, which allows us to dramatically increase our verification throughput during the design and sign-off phases of our flow. We're impressed with FineSim Pro's ability to deliver full-chip simulation capacity and to improve performance by 3X to 4X without sacrificing accuracy. And FineSim SPICE's linear scalability over multiple CPUs enables us to produce SPICE-accurate results for large memories with full parasitic annotation."

"Hynix's decision to deploy FineSim Pro and FineSim SPICE for their memory designs highlights the tools' abilities to offer significantly higher capacity and truly scalable multi-CPU performance while delivering silicon-accurate results," said Anirudh Devgan, general manager of Magma's Custom Design Business Unit. "With the increased performance offered by FineSim Pro, Hynix can dramatically improve verification throughput, reducing design and manufacturing costs, increasing profit margins and enabling Hynix to reach their time-to-market goals."

 [Click here to return to Contents](#)

Magma's Quartz DRC and Quartz LVS Adopted by Toshiba Corporation for Verification and Yield Improvement of Advanced Flash Memory Designs

23 November 2009

[Magma® Design Automation Inc.](#) announced that Quartz™ DRC and Quartz LVS will be deployed by Toshiba Corporation for flash memory designs. Toshiba standardized on Magma's physical verification products after validating their accuracy on 32-nanometer (nm) designs. Quartz DRC's and Quartz LVS's advanced features were shown to improve the yield and reliability of Toshiba's flash memory designs.

Traditional DRC and LVS tools analyze only physical behavior, an approach that either introduces undue conservatism or fails to identify effects that affect product reliability. At advanced process nodes, analysis of electrical behavior is also required. Magma's Quartz DRC and Quartz LVS are the first tools to provide both physical and electrical analysis.

"We've been using Quartz DRC and Quartz LVS on our system LSI designs for over two years, and they have proven to provide the high-capacity, high-speed and highly reliable physical verification we require," said Masaki Momodomi, Technology Executive for Memory of Toshiba Corporation Semiconductor Company. "Through joint work to validate these tools, we are now using it for both static and dynamic physical verification to increase product reliability and decrease project cycles of our 32-nm flash memory designs."

"Quartz DRC and Quartz LVS offer significantly faster turnaround time while providing full compatibility with legacy industry tools," said Anirudh Devgan, general manager of Magma's Custom Design Business Unit. "By combining these tools with the FineSim™ circuit simulator, Magma offers an innovative solution for advanced process designs. Toshiba's decision to expand the use of Quartz

CIMdata PLM Industry Summary

DRC and Quartz LVS to its flash memory products highlights the Magma products' unique abilities to address the verification challenges of 32-nm designs."

Quartz DRC and Quartz LVS: Fast, Accurate, Fully Scalable Physical Verification

Quartz DRC and Quartz LVS are architected to process integrated circuit (IC) designs of any size, at any technology node, in the least amount of time. Magma's is the first truly scalable physical verification solution, able to provide turnaround time that is up to an order of magnitude faster than existing solutions while using existing compute resources. Quartz DRC and Quartz LVS are fully compatible with third-party IC implementation flows and can read file formats used by traditional physical verification tools.

 [Click here to return to Contents](#)

Oil & Gas Contractor Seawell Expands Further with IFS Applications

24 November 2009

Following the successful implementation of IFS Applications in the areas of purchasing, logistics and maintenance, Seawell Ltd (Seawell) has decided to expand its usage of IFS Applications into engineering, project management, job setting, material management, financials and human resources. This confirms Seawell's strategy of continuing to streamline and grow its global project-based operations by standardizing on IFS Applications as its enterprise solution, and brings the total number of users to 2,500.

Seawell's engineering division offers engineering, procurement, construction, installation and commissioning services for modification and upgrade projects for drilling facilities and related systems on fixed platforms. It also offers full technical support services for mobile drilling units. The division consists of significant resources of skilled engineering, project management and administration staff. Skills cover drilling equipment, well construction designs, drilling operations and electrical/instrumentation, structural, mechanical, materials and marine disciplines.

"IFS has shown through the evaluation workshops that IFS Applications for EPCI contractors supports Seawell processes and that it has the best competence to help Seawell implement industry best practice," Seawell Ltd. CFO Lars Berthuelsen said.

IFS strategically targets suppliers to the Oil & Gas industry and has delivered solutions to this sector for many years. IFS offers a complete, integrated industry-specific solution that manages the entire project and asset lifecycle from engineering, project management, procurement, material management and fabrication to installation. Customers include Grenland Group, Babcock Engineering Services, Heerema Fabrication Group, Dresser-Rand, Yantai Raffles, STX Europe, Seadrill, Seawell, Apply Sørco, NCA, APL, Hertel, Bergen Group Rosenberg, BWO, Hamworthy Gas Systems and Harland & Wolff.

About Seawell

Seawell is a company providing drilling and well services, its core business being platform drilling, drilling facility engineering, modular rig, well intervention and oilfield technologies. The company has approximately 2,500 skilled and experienced people. Seawell currently operates on nearly 50 installations in the North Sea and has offices in Stavanger, Bergen, Aberdeen, Newcastle, Houston, and Esbjerg, and joint ventures in Abu Dhabi and Kuala Lumpur.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

SolidWorks Helps U.K. Pipeline Company Design Flexible Pipelines That Go With The Flow

23 November 2009

CAD software from [Dassault Systèmes SolidWorks Corp.](#) (DS SolidWorks) is helping U.K.-based pipeline company [Wellstream International Limited](#) design customized flexible pipelines capable of moving with ocean waves and currents, yet strong enough to contain thousands of gallons of oil and gas pumped at high pressure.

Wellstream manufactures its pipelines from a combination of concentric layers of metallic wires, extruded plastics and tapes. Offshore, crews lay Wellstream pipelines by installing them from a reel like they would a cable. The flexible pipelines adapt to the seabed's shape more easily than rigid pipe, and provide a high-integrity connection to floating production vessels.

Support equipment such as clamps, end fittings, fixings and hang-offs – also designed in SolidWorks® 3D CAD software – join pipeline segments to each other, to pumps and production vessels. Engineers at Wellstream's Newcastle upon Tyne facility use SolidWorks to specially design each pipeline and its supporting structures to customers' specific needs, then simulate how the pipeline will perform once it's deployed.

“Subsea oil and gas flowlines must be reliable and often have design lives in excess of 20 years. The fit between elements must be perfect and every component has to satisfy stress and fatigue requirements,” said David Hunt, a structural design engineer at Wellstream. “We use SolidWorks software to create designs and [SolidWorks Simulation](#) to perform stress assessments. I create a 3D model, apply loads to determine stresses, and use SolidWorks Simulation and the analysis capabilities built into the CAD software to perform analysis on specific components. It's very quick to build the models, run the tests, and figure out the pipeline's behavior in more detail.”

Engineers in a wide range of industries use SolidWorks CAD and SolidWorks Simulation software to create products such as Wellstream pipelines, whose outward simplicity belies the sophisticated design underneath.

“A pipeline sounds like a simple structure to a layman, but when you understand the forces and harsh environments it has to endure, not to mention what it takes to get them in place, you realize what unique works of engineering they are,” said Simon Booker, SolidWorks European Marketing Manager. “We've designed our software with innovative companies like Wellstream in mind. The ability to design and simulate a product in a single environment speeds the pace of innovation. Wellstream demonstrates that every time it customizes a pipeline to a customer's exact specifications.”

Wellstream works with SolidWorks authorized reseller [SolidSolutions](#) for ongoing training and technical support.

 [Click here to return to Contents](#)

Product News

CD-adapco and Access Unveil STAR-Cast, a Mould Breaking Tool for Casting Simulation

24 November 2009

[CD-adapco](#) and Access announced the first public release of STAR-Cast, a new tool that revolutionizes industrial casting simulation. Developed in collaboration between a provider of CAE technology and

CIMdata PLM Industry Summary

recognized international experts in casting and metallurgy, STAR-Cast brings ease-of-use and automation to the simulation of casting processes, and introduces a new level of multi-disciplinary sophistication to simulation results.

Based around the advanced technology that powers CD-adapco's CAE software tools STAR-CCM+ and STAR-CD, STAR-Cast provides a comprehensive process for multiphase casting simulation - liquid, solid and gaseous –including conjugate heat transfer, a sharp resolution of the filling front, free-surface fragmentation, motion of trapped gas bubbles in melt, natural convection in melt and gas.

“STAR-Cast is an entirely new concept in Casting Simulation that for the first time places industrial strength simulation technology in the hands of foundrymen, casting designers and tool makers,” says CD-adapco President Steve MacDonald. “The partnership between CD-adapco and ACCESS has resulted in a formidable tool that I sincerely believe will lead to unprecedented levels of innovation and cost-reduction in industrial casting.”

Access Managing Director Robert Guntlin says, “STAR-Cast is a best practice example for excellence in science demonstrated in application. The joint knowledge from CAE technologies, materials research and metal casting processes opens the door to a new realm of simulation technology in industrial casting”.

STAR-Cast is a true compelling engineering simulation solution for a broad range of casting processes:

- Gravity Sand Casting
- Gravity (tilting) Die Casting
- Low pressure and Counter Pressure Casting
- Centrifugal Casting
- Continuous Casting

About Access

Access is an independent research centre associated with the Technical University of Aachen (RWTH) in Germany. 50 engineers and scientists are pooling a diversity of individual skills to merge both scientific and technological know-how in materials and processes with a special focus on metallic materials and casting processes.

 [Click here to return to Contents](#)

Dassault Systèmes Announces New Release of Abaqus FEA from SIMULIA

23 November 2009

Dassault Systèmes ([DS](#)) announced the availability of Abaqus 6.9 Extended Functionality (6.9-EF), its technology-leading unified finite element analysis (FEA) product suite from [SIMULIA](#).

Designers, engineers, and researchers in a broad range of industries use Abaqus to predict the real-world behavior of products, materials, and manufacturing processes. This latest release delivers key new features and enhancements for modeling, advanced mechanics, and performance. These ongoing improvements are enabling customers to consolidate their simulation software, thereby lowering cost and increasing efficiency in their product development process.

“To meet product performance requirements within ever-shorter product development timelines, it is

CIMdata PLM Industry Summary

imperative that we perform physically accurate design simulations as fast as possible," stated Kirk Siefker, Senior Analytical Engineer, Engine Components, Schaeffler Group USA. "With the improved implicit dynamic capabilities in Abaqus 6.9-EF, we are able to simulate the realistic performance of our engine component and system designs 30% faster while enhancing our product's overall performance."

"The extended functionality of Abaqus underscores our ongoing commitment to delivering robust, customer-driven enhancements to our realistic simulation software more quickly," stated Steve Crowley, director of product management, SIMULIA, Dassault Systèmes. "The latest capabilities in 6.9-EF will benefit our users in every industry by helping them accelerate the evaluation of real-world product behavior during the design phase."

New features and enhancements in Abaqus 6.9-EF release include:

Modeling

Interactive support is provided for meshing models using cylindrical elements, which can be useful in the analysis of pipelines by oil and gas companies.

Geometry repair tools in Abaqus/CAE offer greater flexibility and broader scope for systematically adjusting the geometry of a model in preparation for meshing.

An interface for model change definitions allows the deactivation and reactivation of model regions and contact pairs during an analysis.

Users can now define direct cyclic and low-cycle fatigue analysis procedures in Abaqus/CAE. Low-cycle fatigue analysis can be used to efficiently predict fatigue life in electronic components such as solder joints.

Discrete orientations provide a convenient method for accurately defining spatially varying material orientations on models with curved geometries such as aircraft panels and car bodies.

Advanced Mechanics

Viscoelastic behavior can be now modeled with orthotropic/anisotropic elasticity in Abaqus/Explicit, which provides more realistic composite damage prediction.

A new and efficient method is available for analyzing structures subject to air blast loading, which is useful for safety evaluation in the civil engineering and defense industries.

Continued advancements in fracture and failure include contour integral evaluation for cracks defined with XFEM and the inclusion of the Virtual Crack Closure Technique (VCCT) in Abaqus/Explicit, which allows users to model brittle fracture of partially bonded surfaces.

Breakthrough improvement in the implicit dynamics procedure helps solve unstable problems involving contact, buckling, and material failure. Examples include impact inside gear mechanisms and medical device deployment within patients.

Performance

A new iterative solver in Abaqus/Standard provides performance gains up to 20x or more in comparison to the direct sparse solver. The iterative solver is intended for very large simulation problems typically found in applications such as powertrain, oil reservoir, and material microstructure simulations.

Performance of creating high-quality surface meshes using the mapped meshing technique has been significantly improved. Depending on the part, performance gains of 2x to 40x are possible. This is

extremely useful in meshing engine blocks and ship hulls.

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Dassault Systèmes Unveils Collaborative Innovation Initiative for Consumer Packaged Goods

18 November 2009

Dassault Systèmes ([DS](#)) unveiled a new initiative designed specifically to enable consumer packaged goods companies to increase overall organizational efficiency and cost management. Building on Dassault Systèmes' industry-specific series of CPG Accelerators, the primary value of the Collaborative Business Processes Initiative for CPG is to accelerate innovation by promoting global standardization and re-use of intellectual property throughout the supply chain helping to generate global economies of scale, reduce cycle times and improve quality.

“With complex global business models and high volume product lines, we’ve identified greater standardization and a single version of the truth as mission critical elements for CPG companies to successfully drive innovation and overall organization efficiency,” said Rosemary Grabowski, vice president, CPG Market Development, Dassault Systèmes. “Building on our strong heritage in the CPG industry, we believe that this new innovation initiative will provide CPG companies with the additional organizational horsepower to explore new markets and take advantage of emerging opportunities.”

Organizations are able to realize a number of benefits from the initiative, including:

- Enabling global business operations and improve supply chain performance;
- Standardizing and streamline specification creation, management and use to maximize procurement power and enable significant cost reductions;
- Increasing productivity and efficiency by eliminating redundancies and accelerating time to completion;
- Ensuring validation of specification to optimize manufacturing preferences
- Maximizing the benefits of negotiated volume pricing on a global basis
- Assuring the promotion of repeatable best practices for specification request, design and approvals.

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Lectra Announces the New Version of Romans Cad

23 November 2009

Lectra announced the launch of the latest version of Romans Cad®©, its software suite created especially for the footwear, luggage and leather goods industries. Romans Cad V9 will enable companies in these markets to meet the challenges they now face, while offering new development opportunities more in line with consumer demand.

This new version of the solution suite will give manufacturers more room to maneuver as they address the issue of increasing production and development costs, regardless of their profile or geographical location. Companies based in emerging, developing, and Western nations alike, whether they are present locally or internationally, will be able to benefit from all the advantages the solution offers. With Romans Cad V9, manufacturers will also be able to control profit margins and costs, launch new models

CIMdata PLM Industry Summary

on the market more frequently (reducing time to market), and improve production quality. The integration of Romans Cad throughout the product creation chain substantially reduces design and production times as well as the number of physical prototypes needed throughout the process. As a result, the time needed to design a new collection can be cut by up to 30%.

In a difficult economic climate where costs are increasing and retail prices stagnating or, some cases, falling, manufacturers in the West are trying, above all else, to protect their profit margins. Romans Cad V9 is the solution to this challenge, allowing companies to control costs right from the design stage. The new version of Romans Cad reduces development times, which gives manufacturers the ability to react more quickly to consumer needs and expectations based on trends that follow fashions and the general zeitgeist.

For emerging countries such as China and India—and, to a lesser extent, Russia—the new version of Romans Cad will also offer manufacturers the potential to expand their local market share. It provides all the tools required for the development of product lines and for the creation of a strong and positive brand image, both of which are essential pre-requisites to tackling international markets. In other countries, like Brazil, which is seeing success with its venture into the footwear market, the new version of Romans Cad will enable manufacturers to expand their customer base by designing and manufacturing finished products for export.

"The footwear, luggage and leather goods industries face many challenges at the moment: an increasingly complex product development process, a constant demand for new collections, and multiple design and production sites spread throughout the world," explains Daniel Harari, Lectra CEO. "By applying unique and particularly innovative methods that reflect the requirements of manufacturers in this sector, Romans Cad allows them to focus on adding value to models, saving time, and controlling costs."

Romans Cad Data Management: a technical data management system that offers greater flexibility and helps organize and secure collaborative processes

In an industry greatly affected by globalization, access to data, the sharing of information generated during the design of new products, and the use and re-use of previous models cannot be disconnected from design tools. Romans Cad V9 therefore includes an integrated data management tool (Data Management), which allows all parties involved along the value chain—decision-makers, designers and suppliers—to work together and share information in real time, company-wide. Teamwork, development cycles, and the collection design process are streamlined, accelerated and secured through centralized data storage, structured processes and administration rights, all of which reduce development times and prevent errors.

Data management in Romans Cad V9 has changed significantly as a result of numerous discussions with Lectra customers. These exchanges have led to the development of a solution that places integration (with existing CAD and ERP) and collaboration at the heart of the development process.

Re-using data that is properly indexed within the database as the basis for the design of a new model, thereby avoiding starting again from scratch, can cut development and production costs considerably. In addition to the models themselves, the company's entire know-how capital is protected in the form of re-usable data. Production costs are also analyzed, for example material consumption, seam lengths, the price of accessories and associated hourly costs. As a result, before the physical prototype of a new model is even made, the development manager is provided with a realistic cost estimate.

Enhanced industry-specific processes to improve the quality of new models

CIMdata PLM Industry Summary

The development of any item of footwear invariably begins with the definition of a last (the fit). The ability to scan the last and visualize it in 3D so that subsequent operations can be performed directly onto digitized files, without having to go through a surface reconstruction stage, improves the quality of the last. Romans Cad V9 does this perfectly by producing 3D lasts that remain faithful to the last maker's intentions, significantly improving the comfort and thus the quality of the new footwear model.

Notable advances that shorten development times in luggage manufacture

To cut development times for bags and accessories, Romans Cad V9 now comes with new features which allow certain tasks and operations, such as the creation of darts and gussets, to be automated.

With Romans Cad Data Management, designers also have a wealth of data at their fingertips as they working in collaborative mode, so they can retrieve data and avoid repeating tasks that have already been documented during exchanges with their network of subcontractors. They can therefore focus on their development goals, where the company can make best use of their expertise.

Romans Cad 3D Sketch: a unique process to reduce footwear development times

The brand new Romans Cad 3D Sketch module really stands out from all competing applications currently on the market. It enables designers to create textured sketches directly onto a 3D digital last using an electronic pen and graphics tablet, without impeding their creativity. The Romans Cad 3D Sketch module thus offers designers a very similar experience to traditional hand-drawing, producing sketches on a 3D last and creating a virtual prototype that can be used directly by the development center. The result is greater consistency between the sketched and the finished model, a drastic reduction in development times, and the production of a larger number of realistic simulations in a very short time, so the frequency of collection renewal can be substantially increased.

With Romans Cad 3D Sketch the creativity of designers is enhanced and extended, because they can instantly view their ideas and quickly create variations. The tool also considerably improves the synergy between design departments and product development teams because the designer's original intention can be more easily understood and pursued. This translates into fewer errors of interpretation, fewer iterations, and better quality. Project managers can rapidly estimate the costs associated with the design and suggest minor design alterations that will have a major impact on cost price without really altering the general look of the model.

Last but not least, Romans Cad V9 has been made even easier to use.

By facilitating the entire design, development and manufacture process for footwear, luggage and leather goods, Romans Cad V9 fulfils the needs and helps overcome the main strategic challenges of professionals in these sectors.

For more information, please visit <http://www.lectra.com>

 [Click here to return to Contents](#)

LEDAS Improves Parametric Design in SketchUp

25 November 2009

LEDAS Ltd. announced the availability of version 1.2 of its Driving Dimensions plug-in for Google SketchUp software. The Driving Dimensions product line from LEDAS is aimed at making advanced MCAD technology available at an affordable price to all users of popular 3D software.

CIMdata PLM Industry Summary

Version 1.2 contains significant improvements in quality, stability, and performance. This was made possible because it is based on the next generation of LGS 3D geometric constraint solving software component recently released by LEDAS. The new version generates solutions that users would expect to see as outcomes. When users now modify the parameters of driving dimensions, most edges and faces remain unchanged; the only ones to change are those needed to satisfy the new parameter values. In addition, the time to solve constraints has been significantly reduced, with the Driving Dimensions plug-in now up to ten times faster than the previous version on large models.

A new feature in Driving Dimensions version 1.2 is multi-language support. Now all tooltips and system messages can be translated to other languages. Version 1.2 comes with English and Japanese built-in. (Translation into Japanese was performed by EBATECH of Japan, a reseller of LEDAS solutions in Japan.)

LEDAS invites uses of the free version of Driving Dimensions to help translate the plug-in to different languages. As compensation, LEDAS will provide all collaborators with Pro licenses of the Driving Dimensions plug-in for SketchUp at no charge.

“The Driving Dimensions plug-in for SketchUp is our most popular software,” said Dmitry Ushakov, Director of Product Management, LEDAS Ltd. “The free version of our plug-in has been downloaded by more than 15,000 SketchUp users worldwide since the first public beta was released a year ago. Significant feedback from users of both the free and Pro versions is allowing us to improve the quality of our software, and is giving us fresh ideas on new functions.”

About Driving Dimensions Plug-In for SketchUp

LEDAS Driving Dimensions for SketchUp is a plug-in that performs parametric modifications of 3D geometric models in very simple and intuitive way. With Driving Dimensions, users can modify any dimension (length, distance, radius, or angle) in any SketchUp model with just one click. All driving dimensions set in one model are satisfied simultaneously. The simplicity of the user interface of Driving Dimensions plug-in hides a very strong set of mathematical algorithms in the field of geometric constraint solving. Parametric design has never been so easy -- even for beginners.

Version 1.2 of the Driving Dimensions plug-in is compatible with Google SketchUp 6.0 and 7.1, both the free and Pro versions running on 32-bit versions Windows 2000/XP/Vista as well as on Intel-based Mac OS X 10.4 and above. Visit <http://DrivingDimensions.com/SketchUp> for more information, detailed on-line help, written and video tutorials, and sample parametric 3D models.

The Driving Dimensions plug-in for SketchUp is available in two versions: free and Pro. The free version is not intended for commercial use and does not allow users to add more than 25 driving dimensions to one model. The Pro version eliminates these restrictions at a modest price: single-user licenses are only \$45, which includes a year’s worth of updates. It can be easily purchased through the online store at <http://DrivingDimensions.com/store/SketchUp>

About Driving Dimensions Portfolio

Driving Dimensions is a set of end-user applications developed by LEDAS as plug-ins for popular 2D and 3D modeling systems. The aim is to provide advanced parameterization capabilities to users of programs such as Google SketchUp and McNeel & Associates’ Rhinoceros. Driving Dimensions plug-ins are based on the Variational Direct Modeling technology, which uses history-free editing model elements, preserves design intent as expressed by explicit and implicit driving dimensions (linear, angular, or radial), and geometric constraints.

CIMdata PLM Industry Summary

Simultaneous satisfaction of geometric and dimensional constraints is achieved with LGS 2D/3D geometric constraint solvers, which have been developed by LEDAS since 2001. They are available for licensing to all CAD developers.

More information about the entire Driving Dimensions portfolio of applications can be found at <http://www.DrivingDimensions.com>.

About EBATECH

Established in 1997 by Mr. Yoji Ebata, EBATECH is located in Chita (Aichi Prefecture), Japan. EBATECH provides technology components for the creation of CAD software for Japanese market. Visit <http://www.ebatech.jp> for more information.

About LEDAS

LEDAS Ltd. is an independent software development company founded in 1999. It is based in the Novosibirsk Scientific Centre at Akademgorodok, the Siberian Branch of the Russian Academy of Science. A leader in constraint-based technologies, LEDAS is a provider of computational software components for PLM (Product Lifecycle Management) solutions: geometric constraint solvers for CAD/CAM/CAE, optimization engines for project management, work scheduling and meeting planning as well as interval technologies for knowledge-based engineering and collaborative design.

 [Click here to return to Contents](#)

LMS International Releases Feature-Packed LMS Virtual.Lab Rev 9

23 November 2009

LMS has released the latest version of its integrated solution for 3D functional performance simulation: LMS Virtual.Lab Revision 9. A milestone release, the LMS Virtual.Lab Revision 9 software suite is filled with brand-new performance capabilities and breakthrough technology to ramp up engineering productivity, most notably with new BEM and FEM capabilities and a brand-new ray tracing solution in LMS Virtual.Lab Acoustics. Dedicated industrial application solutions found in LMS Virtual.Lab Motion have been significantly enhanced for improved usability as well, while the new thermal fatigue solution in LMS Virtual.Lab Durability and the MADYMO coupling safety feature in LMS Virtual.Lab Structures are clearly breakthrough solutions in their respective simulation markets.

“We are very excited about LMS Virtual.Lab Revision 9. Of course, it provides major advantages for all types of performance engineering in general, but I really must say, for the acoustics market, we kicked it up a notch. Not only did we massively broaden the suite’s FEM capabilities, but we also enhanced our unique BEM technology. These breakthrough developments show why we’re the acoustic simulation market leader,” stated Stefaan Goossens, Vice-President Simulation at LMS International.

In addition to the extensive work on LMS Virtual.Lab Acoustics, LMS Virtual.Lab Motion has been extended with key industrial applications for driving dynamics, aerospace, wind, powertrain noise & vibration, tracked vehicle and a superior 1D/3D co-simulation methodology for mechatronics system level simulation.

Especially for thermal applications, LMS Virtual.Lab Durability’s new thermal fatigue feature helps engineers analyze the impact of changing temperatures on fatigue behavior to accurately evaluate fatigue on vital engine parts, exhaust systems and turbo chargers.

For the transportation safety market, the new coupling with MADYMO occupant safety software

CIMdata PLM Industry Summary

permits users to position MADYMO crash test dummies, and by integrating the MADYMO crash test dummy with the vehicle FE model, users can perform complete occupant safety simulations.

LMS customers with active service contracts are currently receiving their upgrades. LMS users interested in the latest version should contact their local LMS representative or see <http://www.lmsintl.com/virtuallab-rev9> for more information.

 [Click here to return to Contents](#)

Magma Releases Hydra 1.1 - Enhanced Hierarchical Design Planning Solution Adds Out-of-the-Box Reference Flows and Advanced Technology to Deliver Better Floorplans Faster

18 November 2009

[Magma Design Automation Inc.](#) announced Hydra™ 1.1, an enhanced version of Magma's hierarchical design planning solution for large systems on a chip (SoCs). The new version features out-of-the-box reference flows for channel-style, near-abutment, full-abutment, black-box, repeated-block and multi-power domain methodologies, allowing designers to get started quickly and combine these various approaches. New advanced capabilities and enhanced ease of use enable faster delivery of better floorplans.

"For large SoCs, the traditionally manual approaches to feasibility analysis and chip planning are too inaccurate and time consuming," said Premal Buch, general manager of Magma's Design Implementation Business Unit. "Hydra provides designers the ideal combination of advanced capabilities and broad flexibility, letting them apply their expertise to critical issues while Hydra automates significant portions of the hierarchical design planning flow."

Hierarchical Flow Manager: A Faster Path to Better Floorplans

Hydra 1.1 features a hierarchical flow manager that enables designers to deliver higher quality floorplans faster. Reference flows for commonly used design styles such as channel based, near abutment and black box are available. Support for more complex flows such as full abutment, repeated block and multi-power domains that are compliant with both the Unified Power Format (UPF) and Common Power Format (CPF), is also provided. These unique reference flows can be used in any combination to obtain an optimal floorplan. They also enable design teams to perform design feasibility analysis at strategic points in the flow to evaluate early netlist quality, floorplan routability and performance goals.

Advanced Technology, Powerful Automation and High Capacity

Hydra 1.1 offers industry-leading capabilities, including:

- * Automatic macro placement - high quality placement of thousands of macros in just hours
- * The industry's only concurrent cluster placement and shaping
- * Exclusive slack-proportionate time budgeting and re-budgeting
- * The industry's only truly hierarchical global routing
- * The industry's only hierarchical clock tree planning

Hydra includes the industry's best macro placement. It is able to automatically place the most

challenging designs in hours with excellent quality of results. The Hydra 1.1 macro placer has been enhanced to offer improved capacity with support for thousands of macros, improved congestion and timing awareness for both inter-block and intra-block communication, and extended relative placement constraint support. Hydra is the only hierarchical design planning solution that places and shapes blocks concurrently, reducing this normally time consuming manual task to just a few hours. In Hydra 1.1, the shaper has been enhanced to support any mix of design styles including channel style, near abutment and full abutment. The shaper now supports incomplete netlist specifications by taking into account black-box characteristics.

Hydra 1.1 features slack-proportionate time budgeting and incremental re-budgeting. This approach delivers more accurate budgets than traditional methods through continuous refinement based on the physical topology, timing criticality of partitions and block implementation.

Hydra 1.1's new clock planning technology is now truly hierarchical, supporting both top-down and bottom-up clock tree construction.

Hydra 1.1 also features new global routing technology with native support for hierarchy and multi-threading, resulting in faster, more accurate global routing during the chip planning stage. The new global router has support for net-specific topology control, transit region support allowing for a mixture of feedthroughs and flyovers, and MVdd aware topology construction.

Availability

Hydra 1.1 is currently available. It can be used standalone or integrated within the Talus® flow. For pricing and other information, contact Magma at sales@magma-da.com.

 [Click here to return to Contents](#)

Mastercam X4: Spotlight on Lathe

November 2009

Mastercam X4 Lathe is here with a new suite of CAD/CAM tools focused on delivering speed and efficiency for machining jobs. From roughing and finishing to easy grooving and threading, Mastercam Lathe has been designed to reduce programmer interaction and increase machining flexibility.

Powerful Part Modeling

Mastercam's streamlined CAD engine makes design work easier than ever before. Each piece of geometry you create is "live," letting you quickly modify it until it's exactly what you want.

Precise Turning

Mastercam X4 Lathe delivers a streamlined set of programming tools, including:

- "Quick Toolpaths" for programming parts with just a few clicks.
- Optimized facing including roughing and finishing.
- Complete threading with multiple starts, diameter calculation, and user customizable thread tables.
- In addition to turning, full 3- to 5-axis milling, including machines with B-axis tooling arms.
- Grooving with multiple depth cuts and pecking.
- Easily assign groove depth, width, wall angles, corner radius, chamfer, and corner dwells.

CIMdata PLM Industry Summary

- Stock recognition for optimized turning toolpaths with minimal user interaction.
- Comprehensive lead-in/lead-out controls minimize the need to modify the CAD model to control tool motion.
- Steady rest option supports long work pieces, minimizing deflection from tool pressure and material weight.

Designed for Ease

- Fully associative toolpaths are linked with your geometry. Modify any element of the job and immediately get updated toolpaths without starting over.
- Mastercam's CAD File Change Recognition tracks files from Mastercam or any other CAD system and will show you what's been changed for easy toolpath updating.
- Comprehensive insert libraries including Sandvik®, Kennametal®, Iscar®, and Valentine®.
- See your part as it will come off the machine with solid model toolpath verification.

For more information about Mastercam X4 Lathe, please visit <http://www.mastercamlathe.com>.

 [Click here to return to Contents](#)

Omnify Software Offers RapidStart PLM for Small and Mid-size Manufacturers

17 November 2009

Omnify Software announced the RapidStart PLM Suite for the Empower PLM 4.5 solution. The RapidStart PLM Suite offers small and mid-size manufacturers an opportunity to access a robust PLM solution at a fraction of the implementation time and cost of conventional PLM products.

With an extremely affordable price starting at six thousand dollars, the RapidStart PLM Suite delivers key features for improving product development including: complete product data management, Bill of Material (BOM) management, Engineering Change/ECO management, Document management, Compliance management, and integration with engineering environments. As customers grow and their business needs change, the RapidStart PLM Suite can easily scale to incorporate additional functionality of the Omnify Empower PLM system while maintaining its ease of use and low cost.

For more information on the Omnify Software RapidStart PLM Suite visit <http://www.omnifysoft.com/products>.

 [Click here to return to Contents](#)

Symphony Services' Product Line Management Services Raise R&D Organizations' Effectiveness and Profitability

23 November 2009

[Symphony Service Corp.](#) announced its [Product Line Management](#) (PLM) services, which both extend product life and bring greater functionality to clients' existing software products, continue to gain strong market momentum. The company's PLM service offerings center on [outcome certainty](#)-based engagement models that deliver measurable ROI to clients, typically focusing on the management of core or legacy products. Symphony Services' global product engineering specialists work closely with clients to manage identified products, enhance and extend product life and ensure revenue and customer

satisfaction goals are met.

Clients have found that Symphony Services' PLM services result in better integration strategies between older and newer product versions and significantly increased revenue from older product lines. Industry analysts estimate that up to 80 percent of R&D budgets are allocated toward maintaining legacy products. When the resources of a seasoned, in-house R&D team are applied in this way, the organization's bottom line suffers because older product lines have less functionality and, by extension, decreased support levels. Moreover, allocating too many resources to older products significantly limits a company's ability to take advantage of high-growth market opportunities.

"From the very beginning of our relationship, Symphony Services has contributed to our success by strategically linking our R&D roadmap to our business goals," said Dayon Kane, senior director, R&D, BMC. "The Symphony Services team has expertly managed our legacy product lines, resulting in increased customer satisfaction levels and higher revenue from these core products. Moreover, our relationship with Symphony Services has freed in-house R&D resources to execute against our future plans, ensuring BMC continues to be a leading innovator in our market."

Breathing New Life Into Older Products

Symphony Services' PLM services mitigate the challenge of having too many R&D resources committed to legacy product lines, when their time and expertise are better spent developing new products to ensure the company stays ahead of evolving market demand. The company has, on average, reduced clients' product management costs by over 25 percent; extended product life related revenue by up to 50 percent; and lowered support costs by 40 percent – all without sacrificing on outcomes.

The Symphony Services development team's patented, repeatable processes begin with a careful assessment of clients' PLM needs to ensure its services are perfectly aligned with the organization's business goals. And by analyzing and measuring every product function the Symphony Services team is able to recommend and build enhancements that both extend the lifespan and increase the revenue of products once thought to be obsolete.

"Many clients come to us because they know they must shift their investment toward emerging and growth segments to maximize revenue, but they just don't have the in-house R&D resources to do it," said Alan Harlan, president, product line management at Symphony Services. "We remain committed to providing our clients with the most innovative product line management services available that allow them to focus their efforts on high-growth opportunities while still maximizing the potential of their legacy software products."

The rising interest among software product companies in product line management services remains linked to the value clients' gain through reallocating their internal product engineering resources and budgets to next-generation products. And, by guaranteeing Outcome Certainty, Symphony Services has aligned its goals with its client's business goals.

 [Click here to return to Contents](#)

Synopsys Expands DesignWare Data Converter IP Portfolio with 40-nm Solutions

24 November 2009

Synopsys, Inc. announced the release of a broad range of data converter IP solutions for 40-nanometer (nm) process technologies. The IP is targeted at broadband wireless communications, wired communications, and video designs requiring high-performance, ultra-low power consumption and very

CIMdata PLM Industry Summary

compact area. With this latest addition, Synopsys' DesignWare® Data Converter IP portfolio now offers more than 100 data converter IP products comprised of Oversampling Sigma-Delta, Pipeline, and, SAR analog-to-digital converters (ADCs), Current Steering digital-to-analog converters (DACs) and General Purpose ADCs and DACs. By providing a broad portfolio of silicon-proven, high-quality data converter IP solutions that are backed by technical experts in major geographical regions worldwide, Synopsys helps designers lower integration risk, speed time-to-market and achieve first pass silicon success for their system-on-chip (SoC) designs.

"Synopsys is well trusted in the design community for delivering silicon-proven, advanced data converter IP solutions," said Tommy Aizawa, vice president of strategic marketing for Kawasaki Microelectronics (K-Micro). "Their high-quality products, engineering expertise and technical support are critical to helping us bring highly differentiated products to the market faster and with less risk. This enables our customers to deliver high performance network devices with unique features that are specifically targeted for home networking and access devices. Our established relationship with Synopsys through the years has enabled us to have access to a strong roadmap that we can rely on for future product developments."

The DesignWare Data Converter IP solutions meet the needs of a broad range of applications:

- For broadband wireless communications, wired communications and video applications requiring high dynamic range and low power, the DesignWare Dual Pipeline ADCs and DACs support 12-bit resolution and offer up to 200 MSPS sampling rate.
- For cellular communication applications requiring support for multiple generation protocols from 2G up to LTE, the DesignWare Dual Sigma-Delta ADCs support 12-bit resolution with the ability to process narrow and broadband channels in a power-efficient method.
- For video applications processing common high-definition TV, standard-definition TV or graphics video formats, the DesignWare Video DACs support up to 12-bit resolution and offer up to 300 MSPS sampling rate.
- For general purpose measurement applications requiring low sampling rates, the DesignWare SAR ADCs and DACs support up to 12-bit resolution and Sigma-Delta ADCs support up to 14-bit high resolution.

These full-featured data converters internally generate the required references and include additional features such as a highly flexible analog interface which simplifies the connection with RF and other transceivers, eliminating the need for external components. These elements help designers reduce silicon costs and significantly simplify the integration of the IP into an SoC.

"With more than 12 years of delivering analog IP for a broad range of applications, Synopsys continues to invest significantly in providing products that not only support the latest technologies but are also unmatched in performance, power dissipation and area," said John Koeter, vice president of marketing for the Solutions Group at Synopsys." By offering DesignWare Data Converter IP solutions that are silicon-proven in a wide range of customer designs across a variety of process technologies, Synopsys enables designers to easily embed the analog IP into their SoCs with less risk and quickly deliver differentiated products to the market."

Availability

The DesignWare Sigma-Delta ADCs, Current Steering DACs, Video DACs and General Purpose ADCs and DACs in the 40-nm process are expected to be available in Q1 2010. The DesignWare Data

CIMdata PLM Industry Summary

Converter IP solutions are currently available in leading foundries and advanced technology processes from 180-nm to 65-nm. For more information on the DesignWare Data Converter IP solutions, please visit: <http://www.synopsys.com/dataconverters>.

 [Click here to return to Contents](#)

TopSolid Earns the “Compatible with Windows 7” Logo

23 November 2009

Missler Software has announced support for Windows 7. TopSolid will benefit from the power of Windows 7 on next generation touch screen hardware, making 3D mechanical design easier to use than ever before. 3D data is more and more complex and performance is now a key issue in the current CAD/CAM world so optimized hardware and software is essential.

Using Windows 7 technology, Missler Software guarantees its TopSolid users the most high-performance working environment. “Windows 7 has proven to be an ideal platform for developing TopSolid 7, the 7th generation of our integrated software range. From core video architecture improvements to the exciting new multi-touch user interface extensions, Microsoft has provided a solid foundation for high performance.” confirms Christian Arber, CEO of Missler Software. “Windows 7 was designed with the customer in mind. We are pleased to have the support of Microsoft to offer our mutual customers enhanced functionalities and value.”

Missler Software’s R&D teams have been working with Microsoft Corp. to ensure that TopSolid would be compatible with Windows 7. One of the many new improvements for TopSolid 7 users, thanks to this collaboration, is the new taskbar which is easier to see, more flexible and more powerful. TopSolid 7 can be downloaded on <http://www.topsolid7.com>.

 [Click here to return to Contents](#)

TowerJazz and Tanner EDA Announce Process Design Kit (PDK) Collaboration for Power Management Device Design

19 November 2009

[TowerJazz](#), the global specialty foundry leader and Tanner EDA announced a joint initiative to develop Process Design Kits (PDKs) for analog/mixed-signal (A/MS) designers using Tanner EDA’s HiPer Silicon™ software. This collaboration gives Tanner EDA customers access to TowerJazz’s 0.18- and 0.35-micron power management process platform and TowerJazz customers access to Tanner EDA’s A/MS tools for a complete IC design solution.

“Tanner EDA offers a perfect blend of price-performance, flexibility and interoperability that addresses the needs of our analog/mixed-signal IC design customers,” stated Ori Galzur, VP, VLSI Design Center for TowerJazz. “By working with EDA vendors such as Tanner EDA, we can provide our mutual customers with an advanced power management platform and customized design capabilities to achieve more predictable designs. This will enable them to decrease design cycle time and achieve a time-to-market advantage for their high performance and differentiated power management solutions. “

“From my power management design experience, the key to first pass success and quicker design cycles is a consistent design environment. Combining TowerJazz’s advanced power management platform with Tanner EDA’s specialized IC design tools will provide this to the industry,” said Marijana Vukicevic,

CIMdata PLM Industry Summary

Senior Analyst, Power Management at iSuppli.

About TowerJazz Power Management Platform

TowerJazz offers a differentiated and industry leading Bipolar-CMOS-DMOS (BCD) power management platform with 0.5- to 0.18-micron CMOS density and a combination of bipolar NPN and PNP devices, as well as high voltage CMOS and DMOS FETs for use in complex power management chips including driver ICs, battery and portable power management, power control for PC products, Class-D audio amplifiers, and many other consumer, communications and computing applications. The Company's continuously customizable LDMOS from 20V to 80V process provides design optimization and the lowest die size at any given breakdown voltage. The integration of a one to zero layer addition Non-Volatile Memory (NVM) provides significant differentiation and cost effectiveness for enhanced power management solutions.

About Tanner EDA Power Management Design Software

Tanner EDA's HiPer Silicon allows designers to plan and administer power management schemes in the context of their complete design. HiPer Silicon includes features and functionality that address an A/MS designer's power management requirements, such as

- Consistent, cohesive user interface across the entire design flow
- Robust design environment provides flexibility without sacrificing performance
- Low learning curve and licensing options help speed concept to silicon

"Our collaboration with TowerJazz is another example of enabling innovation by bringing leading-edge foundry capability to our customers," commented Tanner EDA President, Greg Lebsack. "We are excited to continue to expand our relationship with TowerJazz to benefit our mutual customers. Our specialized IC design software combined with TowerJazz's power platform will quickly and effectively meet our analog/mixed signal customers' needs for high quality power management ICs."

Availability of Power Management PDKs

Tanner EDA and TowerJazz PDKs for power management devices will be available in Q1 2010. For more information on PDK availability and access, please contact Ofer Tamir, Director of CAD, Design Environment & Support at TowerJazz (ofer.tamir@towerjazz.com) or Robin White, International Sales Manager at [Tanner EDA](mailto:robin.white@tannereda.com) (robin.white@tannereda.com).

 [Click here to return to Contents](#)

VERICUT® Enhanced to Read NX Part Files Directly

24 November 2009

CGTech, the developer of VERICUT CNC verification and simulation software, announced new capabilities for users of Siemens PLM Software's NX CAM. VERICUT has long been tightly integrated with NX software via a t "NX-to-VERICUT" interface, and now those who have this interface can reference an NX part file from within their verification session. For existing "NX-to-VERICUT" users no additional licenses are required; VERICUT opens the part file using the currently installed NX software.

"The Siemens PLM Software - [CGTech](#) partnership adds value for NX users by providing a single versatile CNC simulation analysis and optimization tool. This enhancement gives NX users a more

CIMdata PLM Industry Summary

streamlined experience by reducing the number of files to manage,” said CGTech Product Marketing Manager Bill Hasenjaeger. “This enhancement increases the benefits of CGTech’s NX interface, which offers users of VERICUT’s G-Code and machine simulation capabilities an easy way to configure simulations for complex machines and machining processes.”

The interface sets-up and runs VERICUT directly from NX’s Manufacturing menus, automatically referencing Design, Stock, and Fixture models, NC programs, and tooling information in VERICUT. VERICUT simulates both CLSF and post-processed G-code NC programs for even the most complex CNC machine tools and controls. In VERICUT version 7.0, the NX interface was enhanced to enable specifying NC sub-programs and subroutines to be simulated in VERICUT.

 [Click here to return to Contents](#)