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## Acquisitions

### ***MSC Software Amends Merger Agreement with Symphony and Announces New Special Meeting Date***

29 September 2009

[MSC Software Corporation](#) announced that it has entered into an amendment (the "Symphony Amendment") to the Agreement and Plan of Merger among MSC, Maximus Holdings Inc and Maximus

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Inc. dated as of July 7, 2009 (the “Symphony Agreement”), pursuant to which Maximus Holdings Inc., a wholly-owned subsidiary of Symphony Technology Group (“Symphony”), has agreed, among other things, to increase the purchase price under the Symphony Agreement to \$8.40 per share in cash.

As previously announced, on September 21, 2009, the MSC Board of Directors received an offer from third-party private equity firms to acquire all of the issued and outstanding common shares of MSC at \$8.30 per share in cash (the “New Offer”). On September 28, 2009, Symphony delivered to the MSC Board its revised offer to purchase MSC, the terms of which are reflected in the Symphony Amendment.

In light of the Symphony’s revised offer, the MSC Board of Directors determined that the New Offer no longer constituted a Superior Proposal under the terms of the Symphony Agreement and authorized MSC to enter into the Symphony Amendment.

In order to give stockholders sufficient time to consider the amended proposal, the special meeting of the stockholders of MSC previously scheduled for September 30, 2009 has been rescheduled for October 9, 2009. The record date for the special meeting will remain at August 27, 2009. The time and place of the meeting will be announced shortly.

## **Important Information For Investors And Stockholders**

MSC.Software Corporation has filed a proxy statement with the SEC in connection with the proposed merger. INVESTORS AND STOCKHOLDERS ARE URGED TO READ THE PROXY STATEMENT AND ANY OTHER RELEVANT DOCUMENTS FILED WITH THE SEC BECAUSE THEY CONTAIN IMPORTANT INFORMATION. Investors and stockholders may obtain these documents free of charge at the website maintained by the SEC at <http://www.sec.gov>. In addition, documents filed with the SEC by MSC.Software Corporation are available free of charge by contacting Investor Relations by telephone at (714) 444-8551, or by mail at MSC.Software Corporation, Investor Relations, 2 MacArthur Place, Santa Ana, CA 92707 USA, or by going to MSC.Software Corporation’s Investor Relations page on its corporate web site at <http://ir.mscsoftware.com/>.

This communication shall not constitute an offer to sell or the solicitation of an offer to buy any securities.

MSC.Software Corporation and its directors and executive officers may be deemed to be participants in the solicitation of proxies from the stockholders of MSC.Software Corporation in connection with the merger. Information regarding the interests of these directors and executive officers in the transaction described herein is set forth the proxy statement described above. Additional information regarding these directors and executive officers is also included in MSC.Software Corporation’s proxy statement for its 2009 Annual Meeting of Stockholders, which was filed with the SEC on April 10, 2009. This document is available free of charge at the SEC’s web site at <http://www.sec.gov> and from MSC.Software Corporation by contacting Investor Relations by telephone at (714) 444-8551, or by mail at MSC.Software Corporation, Investor Relations, 2 MacArthur Place, Santa Ana, CA 92707 USA, or by going to MSC.Software Corporation’s Investor Relations page on its corporate web site at <http://ir.mscsoftware.com/>.

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## CIMdata News

*Netherlands Telecommunications Law Impacts Dutch Readers of CIMdata PLM Late-Breaking*

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## *News and CIMdata PLM Industry Summary*

28 September 2009

CIMdata, Inc., the Leading Global PLM Consulting and Research firm announced that its daily CIMdata PLM Late-Breaking News and weekly CIMdata PLM Industry Summary newsletters fall within the purview of the Dutch Telecommunications Act.

Effective October 1, 2009 an amendment to the Dutch Telecommunications act establishes new rules for business to business e mail. Primarily, prior consent must be obtained from the receiver if their e mail address is used for commercial purposes.

Each Dutch Late-Breaking News reader has received or will receive an e mail under separate cover instructing them to “opt in” to continuing this newsletter by replying to that email. Without a confirmation to that e mail, the subscription will be suspended until such time as the subscriber elects to notify us that they would like the subscription reinstated.

Subscribers have the ability to unsubscribe to the newsletter at any time by marking the “unsubscribe” box in the body of our newsletter.

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## Company News

### ***Accellera Members Approve VIP Standard Best Practices Guide, Continue Improving EDA Verification and Interoperability***

30 September 2009

Accellera, the leading standards organization developing language-based standards used by system, semiconductor, Intellectual Property (IP) and Electronic Design Automation (EDA) companies, announced that it has approved the Accellera Verification Intellectual Property (VIP) Best Practices Interoperability Guide, a document resulting from the work of its VIP Technical Subcommittee (TSC), which was formed in May 2008.

The Guide details how to use VIP components developed using SystemVerilog testbench environments based on either the Open Verification Methodology (OVM) or Verification Methodology Manual (VMM) interchangeably to lower verification costs and improve design quality.

"The results of Accellera's VIP Interoperability standardization effort makes it easier to reuse verification components and reduces the cost of repurchasing and rewriting IP for each new project or electronic design automation tool," said Shrenik Mehta, Accellera chair. "We applaud the efforts of Accellera's VIP TSC for reaching this significant milestone and for making their Best Practices Interoperability Guide available to the EDA community."

#### **What's New?**

The VIP Best Practices Interoperability Guide includes a VIP reference library that can be used as part of a verification interoperability methodology and a chapter devoted to introducing the high-level concepts of interoperability and component integration. It outlines a process that can be used to define a verification environment and select which cross-referenced best-practice sub-chapter or sub-chapters apply to specific integration challenges.

## **What's Next & Call for Participation**

Accellera's VIP TSC will continue its efforts to develop a Common Base Class Library (CBCL) and associated verification methodology with the goal of achieving IEEE standardization.

Accellera's VIP Technical Subcommittee is open for participation by everyone, and holds weekly meetings on Wednesdays at 9am PST. Accellera membership offers additional benefits to participants. To contribute and join Accellera's VIP TSC, please visit <http://www.accellera.org/activities/vip>.

## **Why Interoperable VIP Components?**

Verification solutions are ubiquitous, differing from company to company and among separate organizations within companies. Commercial tool suppliers do not support all the verification solutions in use today. The result is that there are many different methods for doing the same thing, requiring retraining and conversion costs. Interoperable VIP components reduce the cost of using and re-using VIP and improve the quality of design verification by eliminating translation errors.

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## ***David Bartlett Appointed Director of Agile PLM Practice for CPG***

28 September 2009

CPG announced that it has named David Bartlett to serve as the company's Agile PLM Practice Director as part of its accelerated growth plan. CPG provides engineering, manufacturing and supply chain companies with Oracle systems, including eBusiness Suite (EBS), Agile Product Lifecycle Management (PLM), Demantra Demand Planning, CRM OnDemand, and Business Intelligence.

David Bartlett is an experienced Product Lifecycle Management consulting professional with over a decade of creating and managing professional services. Bartlett comes to [CPG](#) from Domain Systems, where he created strategy, deployment methodology, and solution offerings for a global PLM customer base. With both onshore and offshore software development teams, Mr. Bartlett has managed a highly skilled collection of consulting resources with experience in handling SMB and Enterprise global PLM deployments.

Founded in 1997, CPG provides Engineering, Manufacturing and Supply Chain companies with consulting services around Oracle applications. CPG has enjoyed significant growth in recent years, including key customer wins and an accelerated growth plan, including the 2008 appointment of James Daleen as Chief Executive Officer.

Mr. Bartlett brings more than 13 years experience in the high tech industry, with knowledge spanning multiple sectors. Starting his career as a senior design engineer for circuit boards, he moved into the medical device and government sectors to manage CAD applications for Sparton Electronics. Additionally, Bartlett served as an M1A1 Tanker in the United States Marine Corps.

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## ***I.B.I.S., Inc. to Resell PTC® Leading PLM Solutions to Industrial Equipment Manufacturing Clients***

30 September 2009

I.B.I.S., Inc., leading Gold Certified Microsoft Partner, announced that it has joined the PTC Partner Program. This is especially significant for manufacturers who already use Microsoft Dynamics AX to

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run their global business processes and would like to further improve efficiencies around product development by adding complementary Product Lifecycle Management (PLM) solutions.

As a PTC ChannelAdvantage™ reseller, I.B.I.S., Inc. will now be able to introduce the PTC Product Development System (PDS) to customers in Industrial Equipment Manufacturing industries. The integral PTC PDS is comprised of Pro/ENGINEER®, Windchill®, Arbortext®, Mathcad®, and ProductView™ products, which have been designed to work together to help companies optimize their product development processes.

“As I.B.I.S. continues to deliver comprehensive solutions into the Industrial Equipment Manufacturing industry, PTC gives our clients the option to enhance their product lifecycle management,” said Andy Vabulas, Chief Executive Officer at I.B.I.S., Inc. He continues, “Choice is powerful. We pride ourselves on offering clients options to get their desired results.”

The addition of PTC product development solutions to an existing Microsoft Dynamics AX implementation enables clients to realize shortened project cycles, significant cost savings, improved product quality, increased customer satisfaction and enhanced market positioning. I.B.I.S.’ strong presence and deep knowledge of manufacturing industry processes are complemented by the ability to now provide clients with a comprehensive PLM solution that enhances the value of their enterprise manufacturing solutions.

“Through channel partners like I.B.I.S., PTC increases its ability to offer its Windchill PLM solution to manufacturers around the globe,” said Paul J. Cunningham, Executive Vice President, Worldwide Sales and Distribution, PTC. “Windchill delivers the powerful collaboration and data management capabilities that enable customers to achieve their product development initiatives and increase competitive advantage. We look forward to working with I.B.I.S. to help maximize the value that customers receive from their technology investments.”

[I.B.I.S.](#) and PTC provide strategic business solutions and enterprise services to clients nationwide.

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## ***Sescoi Plays a Major Role in the Prodentec Dental Prosthesis Project***

2 October 2009

**Sescoi** announced that it is the software partner in the ambitious **“Prodentec” dental prosthesis**“ open manufacturing” project. This 30 month, French government funded project is lead by the French UNPPD (Union Nationale Patronale des Prothesistes Dentaires) and AFNET, an association that promotes common standards in data exchange.

The objectives of Prodentec are to create a digital process for the design and manufacture of dental prostheses that can be economically implemented by the majority of practitioners; agree a common format for CAD data exchange; and achieve full traceability for prosthetic data throughout their entire lifecycle in line with European traceability directives.

Sescoi’s experience and knowledge associated with the development of their own software – the WorkNC®DENTAL automatic dental CAM/CAD and the WorkPLAN Enterprise custom manufacturing ERP systems - will contribute greatly to the success of the project.

Launched last year, **WorkNC®DENTAL** can import CAD models and scanned data in many different formats, nest and orientate it and automatically add support pins and identification marks. Machining

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wizards apply 3 or 5-axis toolpaths as appropriate, which have been optimized to suit the difficult to cut materials commonly used in dental implants, such as titanium and zirconium. Sescoi's objective in the design of WorkNC@DENTAL was to produce a system that is extremely simple to use, on any machine, and operated by dental manufacturers unfamiliar with CNC machining techniques.

Sescoi's [WorkPLAN Enterprise ERP](#) is geared towards project-based manufacturing. The software is able to trace orders and their status throughout the production process. Material batches, quality control procedures and lifecycle performance can all be associated with each project. The system ensures seamless communications by sharing the right information at the right time with all project stakeholders, including customers and suppliers.

The driving force behind the Prodentec project is the need to reduce the cost of dental prostheses in order to counter low cost competition from overseas. Achieving commonality for CAD data exchange between the systems used by dentist, prosthetists and sub-contractors is critical to the success of the project and will ultimately give laboratories greater freedom to choose the solutions that best suit their individual needs.

Improvements in quality and reductions in delivery times of dental prostheses are also anticipated for adopters of the new information technology, as the IT solutions developed will incorporate best practice methodologies. Furthermore, prosthesis traceability, improved business processes and prosthesis lifecycle management will meet the requirements of European directives. Dental implant manufacturers will be able to keep accurate control of production costs and progress.

The proposed high tech solutions will be evaluated by a representative group of dental prosthetists and practitioners.

The existing technology know-how that Sescoi brings to the Prodentec project is the culmination of over 20 years of research and development in automated CAM/CAD and manufacturing ERP. Its links with industry give it a unique insight into the needs of manufacturers, and the company is keen to cooperate with other partner companies to produce the best possible solution for dental manufacturers across Europe and around the world.

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## Events News

### *ACIS Architect to Speak at SIAM Geometric and Physical Modeling Conference*

30 September 2009

Spatial Corp. announces **John Sloan, Ph.D., Senior ACIS Architect**, will speak at the Society for Industrial and Applied Mathematics (SIAM) and the Association for Computing Machinery (ACM) joint conference on **Geometric and Physical Modeling**. The conference is being held this year in San Francisco, CA, October 5-8. John presents in the category of Topologically Robust Computations in Geometric Modeling. John is a known expert in the field of 3D modeling and has been with Spatial for 11 years.

John's presentation covers how developers for commercial solid modelers, such as [3D ACIS Modeler](#), are able to take advantage of "real-world" use cases to improve robustness. A commercial modeler may experience billions of operations across thousands of applications each year. This usage provides, through failure reports, commercial development organizations with large suites of low-probability, real

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world “corner-case” models and operations which stress the modeler’s algorithms.

John will discuss, from both a theoretical and practical viewpoint, some of the failure modes in modeling operations that the [3D ACIS Modeler](#) development organization has observed over the years and techniques for avoiding them. John’s presentation is entitled *Robust Solid Modeling: An Industrial Perspective*, and is in the 3:00-3:25pm time slot on Oct. 6.

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## ***Bentley and U.S. Department of Energy See Robust Energy Simulation as Key to Creation of High Performance Buildings***

30 September 2009

During a recent seminar at the National Building Museum in Washington, D.C., Bentley Systems, Incorporated and the U.S. Department of Energy (DOE) made it clear that robust energy simulation tools are the key to creating high performance buildings that:

- More closely match their predicted performance;
- Reduce energy consumption and CO<sub>2</sub> emissions;
- Increase occupant comfort, health, and safety;
- Help provide building owners with real returns, including lower operating costs.

Bentley’s [Hevacomp Simulator V8i](#) software takes full advantage of the U.S. DOE’s industry-standard EnergyPlus simulation engine to provide highly accurate building energy analysis and design.

At the seminar, Drury Crawley, Ph.D., technology development manager, U.S. DOE, said that in the DOE’s energy building research, simulation has proven critical for designing and operating buildings to support decision making. At the same time it:

- Helps design teams and owners focus energy-use reduction efforts;
- Permits assessment of predicted performance with established benchmarks or goals;
- Enables teams to evaluate alternatives.

Dr. Crawley added that the integration of the U.S. DOE’s EnergyPlus – a comprehensive building, envelope, HVAC, lighting, water, site, and renewables simulation program – with commercial software is critical to bringing energy simulation into mainstream workflows.

Speaking on behalf of Bentley at the seminar, Noah Eckhouse, Bentley vice president, Building Performance Group, said that too often “green” buildings today don’t perform as intended. This, he explained, results in a greater environmental impact than the design promised, actual energy performance that doesn’t match predicted performance, operating costs that exceed estimates, and/or spaces that are uncomfortable or even unhealthy for the occupants. “There’s a growing concern that many ‘green’ buildings don’t provide anywhere near the savings expected by their designers, with some actually using more energy than the code baseline,” said Eckhouse.

He emphasized that analysis tools based on broad-brushed assumptions can’t provide the required detailed analysis of all relevant factors, including materials, sunlight, climate, systems type, space use, air flow, water usage, CO<sub>2</sub> emissions, occupancy, orientation, and many others, that leads to a high performance building. This type of analysis, he explained, can only be accomplished with detailed

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dynamic simulation tools such as Bentley's Hevacomp Simulator.

Said Eckhouse, "Designers have to be able to collaborate on all of the data sets they are creating, from conceptual design and system specifications through the detailed design and engineering process, and even into commissioning. This results in buildings that best realize the intentions of the designs. With the help of Bentley's Hevacomp Simulator, project teams can efficiently and confidently reuse data throughout all of these processes."

[Hevacomp Simulator V8i](#) and [Hevacomp Mechanical Designer V8i](#), along with [Bentley Tas Simulator V8i](#), are part of Bentley's Energy Performance Series. This software for building energy design, analysis, and simulation makes it possible for engineers, architects, and energy assessors to better understand and accurately predict the energy consumption, CO<sub>2</sub> emissions, operating costs, and occupant comfort of projects ranging from small and simple to very large and highly complex. Bentley's Energy Performance Series has been proven in the demanding U.K. market for the design and construction of high performance "green" buildings and now supports U.S. and Canadian standards.

For additional information about Bentley's Energy Performance Series, visit [www.bentley.com/green](http://www.bentley.com/green).

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## ***Delcam Reseller to Preview Integrated CAM at SolidWorks Launch in Quebec***

29 September 2009

Delcam reseller Les Tech will preview the company's forthcoming integrated CAM system for SolidWorks at a series of events in the Quebec region to launch SolidWorks 2010. The meetings, which are being hosted by local SolidWorks reseller SolidXperts, will take place in Jonquière on 14th October, in Québec on 15th October, in Sherbrooke on 21st October and in Montréal on 22nd October.

The preview version of [Delcam](#) for SolidWorks to be demonstrated will include drilling and three-axis milling but plans are in place to extend the functionality in future releases to cover the full range of machining operations, including turning, wire EDM and five-axis machining.

This latest software program marks a new direction for Delcam. Previously, the company has supplied all of its machining software as stand-alone systems that can be linked to any CAD system. In contrast, Delcam for SolidWorks is a dedicated program that provides direct access to Delcam's world-leading CAM algorithms from within this popular design software.

Delcam for SolidWorks will provide all the benefits associated with Delcam's FeatureCAM feature-based machining system. It will have the same strong focus on ease-of-use; all of the knowledge-based automation that makes the software so consistent and reliable, including automatic selection of cutting tools, machining strategies, and feeds and speeds; and the same exceptional speed of toolpath calculation. Of course, it will be based on Delcam's proven machining algorithms that are already used by more than 30,000 customers around the world. All of this technology will be fully integrated into the SolidWorks environment so that the program looks and behaves like SolidWorks.

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## ***ESPRIT Reseller EMCO Group Reveals Latest Innovations to the World***

1 October 2009

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The EMCO Group, an Austrian machine tool manufacturer and a reseller of [DP Technology](#)'s ESPRIT® computer-aided-manufacturing (CAM) software, recently unveiled a series of new, innovative machines designed to easily meet any machining challenge.

The recent EMCO Technology Days, which took place in Hallein, Austria, allowed visitors an exclusive first glance at the five new machine tools that will receive a grander debut at the upcoming EMO 2009, to take place Oct. 5-10 in Milan, Italy.

Exhibited at the special technology days were the new HYPERTURN 45, MAXXMILL 500, EMCOMAT E200, and EMCOMAT FB-450 and -600 L.

Among new technical advancements from EMCO to be showcased at EMO is the adaptation of EMCO HYPERTURN machines for 5-axis simultaneous machining. Demonstration workpieces to be displayed at EMO are programmed with ESPRIT and controlled with the EMCO CPS Pilot, dubbed "The Virtual HYPERTURN."

## **About ESPRIT and EMCO CPS Pilot**

Utilizing ESPRIT, the EMCO CPS Pilot (Crash Prevention System) is an offline programming system for EMCO multi-spindle machines that offers collision detection via virtual test runs. Paired with the simulation and complex programming abilities of ESPRIT, CPS Pilot offers greater protection for complicated machining tasks.

By using this offline programming system, the machine can be used as intended, to make parts, while programmers simultaneously plan, program and simulate the next production run. The data exchange between machine and software occurs openly, on both sides. This means that existing programs may also be used for reverse simulation.

The multi-chain compatible CPS Pilot — with CHECKitB4 software, by Pimpel — is built utilizing the Siemens kernel, interfaces with CAD (computer-aided design) systems and tool databases, and can be upgraded with the CAM functionality of ESPRIT.

## **About the EMCO Group**

The EMCO Group is a leading machine tool manufacturer in Europe. Under the company philosophy, "Made in the Heart of Europe" and "design to cost" are the main factors of the international company that stands for the highest production quality and functional design.

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## ***ESPRIT 2009 by DP Technology at Middle East Manufacturing Exhibition 2009, Abu Dhabi, United Arab Emirates, Oct. 18-20***

30 September 2009

Computer-Aided-Manufacturing software developer [DP Technology](#), creator of ESPRIT® will be on display at Middle East Manufacturing Exhibition (MEMEX) 2009, slated to take place in Abu Dhabi, United Arab Emirates, Oct. 18-20.

MEMEX 2009, "the third international trade show for technology, machinery, tools and solutions for the Middle Eastern manufacturing sector," is considered the leading industry event in the region, as well as ideal vehicle for exhibiting technologies to Middle Eastern and North African decision makers.

Knowledgeable and approachable representatives will be available at the ESPRIT booth, No.B54, to

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answer questions and perform demonstrations of the latest time-saving upgrades.

Among upgrades available in ESPRIT is a new patent-pending free-form 5-axis composite cycle. Twenty-two new 5-axis machining strategies have been added to the existing 5-axis functionalities, which means greater machining flexibility and improved cycle times. The new patent-pending FreeForm 5-axis composite machining cycle allows users to independently define machining patterns and tool orientation strategies to be used for creating simultaneous 5-axis toolpaths, and includes 20 different machining cycles in one — resulting in a wide range of easily manageable possibilities.

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## ***GibbsCAM to Program Live Manufacture of Cervical Plate at EMO***

28 September 2009

[Cimatron Limited](#) announced that it will partner with Machine Tool Vendor Willemin-Macodel to demonstrate 5-Axis and Multi-Task machining of sophisticated medical parts live at EMO, using its GibbsCAM product.

[GibbsCAM](#) will program two separate components of a part for the medical industry on a Willemin-Macodel MTM (Multi-Task-Machining) machine in the Willemin-Macodel booth (Hall 7, Booth G16/H13). Additionally, GibbsCAM 2009 will be displayed in Cimatron Group's booth (Hall 9, Booth A10/A12) and in the booths of other machine tool vendors.

Willemin-Macodel will be using the 508MT 5-Axis MTM (Multi Task Machining) machine, with two spindles, to cut a cervical plate and bone screw together in the same production cycle. A cervical plate is a type of medical implant used to hold the vertebrae in alignment during the process of bone fusion.

The cuttings will demonstrate the high speed capabilities of this machine as well as the high accuracy that is required for complex medical parts.

GibbsCAM's advanced MTM (Multi Task Machining) capabilities will be used for milling and turning of one of the parts, thus taking advantage of the machine's most sophisticated capabilities. The machine will employ a bar feed mechanism and will automatically transfer the part from one station to the next.

GibbsCAM is one of the few solutions on the market with the advanced technology necessary to use MTM machines to their full capacity and offers one of the widest selections of post processors on the market for MTM machines.

While programming the cutting, GibbsCAM provides automatic recognition of holes (which decreases programming time), automatic stock recognition (which avoids unnecessary air cutting and increases tool life and machine life) and accurate machine simulation. Another key component is a unique post processor for the machine which fully utilizes the machine's capabilities.

"GibbsCAM's software, with its ability to harness the full power of MTM machines, is strongly suited to manufacturing in the medical industry", said Robb Weinstein, Gibbs' Senior Vice President of Sales and Strategic Planning. "In the current financial climate, many manufacturers are widening their operations in order to cater to the medical industry, which has been less affected by the global downturn. We are pleased to show that GibbsCAM is equipped to provide impressive results in the medical industry, as it does in every other manufacturing industry."

GibbsCAM's collaboration with Machine Vendors has been facilitated by Italian Cimatron Group subsidiary Microsystem and Productec, GibbsCAM distributor for Switzerland and France. EMO will

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take place in Milan starting October 5th.

## **About Willemin-Macodel**

Located in the heart of the Swiss Jura area, which is historically known for high precision mechanics and micro-technology industries, Willemin-Macodel Ltd has acquired more than 35 years experience in developing high precision machines tools in order to meet customers' requirements.

Their position among the leaders in manufacturing of multi-axis high precision machine tools (machining and mill/turning centers) is built on the strong willingness to deliver very high quality machines to customers with advanced technology, thus ensuring productivity, very high precision and reliability.

Willemin-Macodel's distribution network includes several worldwide subsidiaries and sales representatives, assuring top quality services to international customers.

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## ***IBM, Northrop Grumman, Bell Helicopter, Mentor Graphics and Leading Industry Analyst to Speak at IESF 2009 Military and Aerospace Conference in Dallas***

2 October 2009

[Mentor Graphics Corporation](#) announced that leading industry analyst Richard Aboulafia and representatives from major aerospace companies will speak at the 2009 Integrated Electrical Solutions Forum (IESF) for Military and Aerospace. The event will take place on October 28, 2009 at the Embassy Suites in Grapevine, Texas. Registration is available at <http://www.mentor.com/go/iesf>.

IESF is a full, one-day, free event that has been very successful in past years and now regularly occurs throughout the USA, Europe, Japan and Korea. Now in its eighth year, IESF has become one of the leading forums for electrical and electronic systems design, modeling, simulation and analysis within the aerospace and military industry.

Mentor Graphics' worldwide technical director, Wes Ryder, will deliver a keynote presentation on "Reducing Development Program Risk," which discusses the value a model-driven development process can bring to military and aerospace programs. Leading industry analyst and vice president of the Teal Group Corporation, Richard Aboulafia, will deliver a guest keynote presentation called "Coping with the Downturn: Aviation Markets and Companies Enter Uncharted Territory." Also on the main agenda is Chuck Ratigan, Business Unit Executive, IBM, who will talk about military and aerospace trends in ECAD, MCAD and PLM.

The agenda comprises over 25 industry presentations including speakers from Northrop Grumman, Patmos Engineering Services, and Bell Helicopter. The program also includes a solutions exposition, software demonstrations and technical breakout tracks focused on electrical design and simulation, design data integration, DO-254 safety critical systems and virtual prototyping for military and aerospace applications.

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## ***MachineWorks to Show Toolpath Generation at EMO***

25 October 2009

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[MachineWorks Ltd](#) is presenting its latest addition to the expanding range of MachineWorks' component technologies; toolpath generation for machining. You can see a demonstration at EMO 2009, Pavilion 9, Stand D03.

MachineWorks now offers the ability to compute 2, 3, 4 and 5 axis toolpaths in an environment closely coupled with its simulation and verification libraries. These toolpath generators are built with the same attention to geometric detail and accuracy that characterises their verification engines. They provide fast generation of guaranteed gouge-free toolpaths, within the specified tolerance. "We are really pleased with the seamless integration of our different technologies and now we are in a position to offer our customers a more complete range of solutions", says Mike Nicholson, Sales & Marketing Director.

A Fidia controller displaying the dynamic simulation of milling paths will be also demonstrated on the MachineWorks stand. [Fidia](#) has integrated MachineWorks' simulation kernel into their controllers, which will allow their customers to further optimise their production processes.

EMO Milano 2009 runs from the 5-10 of October. <http://www.emo-milan.com>.

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## ***Magma Launches Fall 2009 TechTalks Seminar Series for IC Designers***

28 September 2009

**Who:** Magma® Design Automation Inc. announced its Fall 2009 TechTalk Seminar Series for IC design engineers.

**What:** Technical presentations describe techniques that accelerate digital and analog/mixed-signal IC design.

**When and Where:** TechTalk seminars will be presented at the following locations:

- \* Nov. 10: Dallas, Texas
- \* Nov. 11: Austin, Texas
- \* Nov. 12: San Diego, Calif.
- \* Nov. 17: Santa Clara, Calif.
- \* Nov. 18: Tempe, Ariz.

Presentations will include:

- \* Improve Performance on Mixed-Signal Designs with Titan™
- \* Increase Complexity and Implement Designs in a Smaller Process Node with Talus® 1.1
- \* Accelerate the Analog Design Cycle with Titan ADX
- \* Meet Higher Performance and Faster Turnaround-Time Requirements with Talus Design and Talus Vortex
- \* Verify Large Designs in Less Time with Quartz™ DRC and Quartz LVS

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- \* Reduce Power Consumption with Talus Power Pro
- \* Deliver Sign-off Quality Libraries and Models Faster with SiliconSmart®
- \* Handle Tougher Timing Analyses with Talus
- \* Accurately Predict Analog Circuit Behavior with FineSim™ Pro
- \* Design 100-Million-Gate Chips with a Small Team and Hydra™

## Registration Information

Magma's Fall 2009 TechTalk seminars are open to IC design professionals concerned with addressing timing, power, area and yield while significantly reducing the RTL-to-GDSII design cycle of multimillion-gate and high-speed digital and mixed-signal nanometer designs. Visit <http://www.magma-da.com/TechTalks> for additional information and to register.

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## ***NEi Software to Demonstrate Simulation of Impact Damage to Composite Structures at SAMPE 2009 Fall Technical Conference***

28 September 2009

NEi Software (NEi) will demonstrate simulation of impact damage at the Society for the Advancement of Material and Process Engineering (SAMPE) Fall Technical Conference in Wichita, Kansas. The presentation, entitled "Simulating Impact Damage to Composite Structures" will be conducted by Allan Hsu during the "Design and Analysis of Composite Structures II" session on Tuesday, October 20th. It will explore how designers use Progressive Ply Failure Analysis (PPFA™) and Impact Analysis to mitigate the risk of catastrophic failure due to impact damage with composite structures.

NEi Software will also demonstrate the features of its simulation technology at booth #811. [NEi Nastran](#), the company's flagship product, provides full support of [composite analysis](#), not only with PPFA, but also with features such as:

Advanced Failure Criteria which use NASA Langley's LARC02 and Puck's first-ply-failure criteria

3D Composite Elements which permits 2D parameters to be extended to 3D or direct 3D orthotropic entry

Determination of ply delaminations by using 3D Composite Elements

Stability Index for sandwich structures that reveal facesheet failure modes of wrinkling, dimpling and crimping

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## ***PDF3D Integration Success for ERPA Packaging CAD CAM Solutions***

29 September 2009

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[ERPA Systeme GmbH](#), a leading provider of software and system solutions for the packaging industry based in Göttingen Germany, demonstrates VPack CAD CAM software at the FachPack 2009 exhibition in Nürnberg with new capability to produce 3D PDF documents, greatly improving communication of packaging configurations and designs. ERPA has integrated [PDF3D](#) technology from Visual Technology Services inside VPack, enabling 3D product designs to be animated within a standard PDF file for client review, showing full print layout, folded 3D packaging and assembly sequences.

Packaging development workflow involves construction of virtual product and package configurations in 3D, requiring true 3D thinking. Beyond simple static designs, modern package work-flows must consider manufacturing efficiency, process steps, material limits and production costs. Communication of packaging designs to manufacturing partners and to clients is critical to optimize the work-flow.

Generating 3D PDF reports directly from the VPack 3D CAD CAM design software allows the entire supply-chain team be quickly review and resolve manufacturing or design issues. By using the ubiquitous free Adobe® Reader for standard PDF files, the [PDF3D](#) model generation enables anyone to rotate, zoom, select and review full 3D packaging models.

Commenting on the new artwork image compression scheme in PDF3D, Kim Rosenbohm, development manager at ERPA, states “I'm stunned that the PDF3D team got this working in such a short time! You even beat Adobe at the file size! Making this into the final release is awesome for us. Thanks again for always providing quick feedback and fixes. In terms of service your company is probably the best thing that has happened to me in a long time.”

## **About ERPA**

[ERPA](#) Systeme GmbH of Göttingen Germany holds a 25 year leadership position in software and system solutions for the packaging industry. ERPA's extensive experience in the field of workflow integration in the packaging industry is exemplified by packaging industry specific 3D CAD CAM software, which can be connected directly to printing and cutting machines, while also integrated with enterprise resource planning systems. Please visit ERPA at booth 339, hall 1, FachPack 2009.

## **About Visual Technology Services Ltd.**

Visual Technology Services is a product and service company specializing in 3D technical publishing through PDF3D, interactive graphics, novel display techniques and data visualization.

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## ***SolidCAM to Show a Preview of the Upcoming Version SolidCAM 2010 at the EMO Exhibition***

27 September 2009

SolidCAM will demonstrate a preview of the upcoming version SolidCAM 2010 at the EMO exhibition in Milano, Italy.

SolidCAM 2010 supports 64 Bit computing, so that the calculation and simulation of large parts will be further accelerated. The new version contains a lot of enhancements for 2.5D Milling, including a “toolbox” that provides specialized solutions for frequently used operations in 2.5D Milling. Turning and Mill-Turn has been greatly enhanced in SolidCAM 2010 with new operations and new turning tool-table. The HSM and HSS modules have also new useful features. SolidCAM 2010 provides an interactive tool path editor that enables the manual editing of the tool path for better control.

Major enhancements have been added in the simultaneous 5-axis Machining module. Besides new sub

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operations for Electrode, Cavity and Turbine blade Machining, the new version features an automated 5-axis Drill operation, that accelerates the drilling of “Swiss cheese” type of parts. Mold makers, that have to drill hundreds of holes from various directions into their part, will benefit significantly by this new feature.

With the new version, SolidCAM will also introduce the new cutting technology "iMachining". iMachining includes two cornerstones: Intelligent Morphing Spiral Toolpath for constant contact Machining and a Technology Wizard that drives the toolpath. By producing an optimal combination of toolpaths and cutting conditions, iMachining enables cutting through the material with much higher feed rates and larger cut depths. iMachining results in dramatically higher metal removal rates while prolonging tool life.

Wolfgang Mueller, Vice President Sales Europe, states: “The “Machine tool world exhibition” EMO is for us one of the most important trade shows in Europe, as it merges all elements of metal cutting like machine tools, cutter tools, components and CAD/CAM software under one roof. SolidCAM acts as the bridge between standard 3D design systems like SolidWorks or Autodesk Inventor and the machine tools, that actually convert the 3D computer models into real parts. The timing for the EMO show is perfect, as after a deep recession the manufacturing industry is gaining momentum again and the leading economic indicators show signs of recovery in most of the European countries.”

Visit [SolidCAM](#) at EMO show in Milano, Oct, 5 to 10 Hall 9, Booth A03

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## ***Tribold Live Webinar: B2B Enterprise Product Management***

October 2009

Join Tribold for an hour-long webinar in your region and learn how Communication Service Providers (CSPs) focused on the Enterprise and Corporate market can leverage Tribold 3™ to provide customized product offers at a lower cost and with a faster time to market.

Tribold 3™ provides the tools for CSPs in the B2B market to gain control over their products and offers and, in the process, improve customer satisfaction by ensuring what the customer is offered, orders and is billed for is in complete alignment across the BSS and OSS.

B2B Enterprise Product Management Challenges:

- Each customer requires a unique configuration of services
- Pricing is set by the market or by sales managers external to the PLM process
- Data alignment between Order Capture, contract negotiation, billing and CRM.

## **Tribold 3™ Advantages for B2B CSPs**

Cost Control - Products will no longer be custom-built but rather constructed from re-usable assets within the product catalog

- Provides clear visibility of what CSPs are selling today, what is available to sell and at what prices.

*Attendees will have the opportunity to apply for a 7 day, free trial license of Tribold 3™.*

Date

October 13th, 2009

## Regional Time Slots

### Americas

11:00 Eastern  
10:00 Central  
09:00 Mountain  
08:00 Pacific

### European

17:00 Central European  
16:00 UK & Ireland

### Registration

[www.tribold.com/webinar](http://www.tribold.com/webinar)

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## **2010 Call for Papers for SIMULIA Customer Conference**

September 2009

### **Abstracts due Monday, November 9, 2009**

Abstracts for contributed papers are now being accepted for possible inclusion in the 2010 SIMULIA Customer Conference., May 25-27, Providence Road Island. The SCC is open to users of all SIMULIA products including Abaqus FEA, Isight, Fiper, and SIMULIA SLM. Industry-focused topics are encouraged including applications in Automotive, Aerospace, Electronics, Medical Devices, Consumer Goods, Energy, among others.

Suggested technical topics include:

Simulation Automation	Composites
Distributed and High Performance Computing	Impact, Durability and Fatigue
Design Optimization	Noise and Vibration, Acoustics
Linear and Nonlinear Dynamics	Fluid-Structure Interaction
Thermal	Simulation Data and Process Management

We are particularly interested in papers that highlight the technical, business, organizational, economic, and/or social value of simulation to your company, field, or institution.

Prospective authors are invited to submit abstracts of 250 words or less. Paper acceptance will be based on the technical merit and overall quality of the abstract and draft manuscript. Once accepted, authors must meet all conference deadlines to be included in the conference agenda and proceedings. All authors and co-authors presenting or attending the SCC are required to pay the discounted author registration fee of \$895 (if you register before February 26, 2010 you will receive an additional discount of \$100, making the total registration fee \$795).

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## Benefits of Presenting

Enhance your professional credentials by being published in the Conference Proceedings which is distributed internationally.

Receive \$100 discount on your [registration fee](#) to the conference and \$100 discount on the Advanced Seminar fee.

Gain recognition as an expert in your field in the simulation community.

Establish beneficial industry contacts.

Please submit your abstract as soon as possible for timely review and consideration.

>> [Submit an Abstract](#)

## Presenter Deadlines

DATE	ITEM
November 9, 2009	Abstracts Due
January 15, 2010	Draft Manuscript Due
February 26, 2010	Final Manuscript Due for Conference Proceedings
February 26, 2010	Register for Conference to Reserve Speaking Slot
April 30, 2010	Final Presentations Due

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## Financial News

### *Avatech Solutions Reports Fiscal 2009 Fourth Quarter and Year-end Results*

28 September 2009

Avatech Solutions, Inc. announced financial results for its fourth quarter and year ended June 30, 2009.

For the fiscal year ended June 30, 2009, the Company reported revenues of \$35.4 million, compared to \$49.6 million in the prior-year period. Selling, general & administrative expenses decreased to \$16.2 million in fiscal 2009, when compared to \$18.5 million in the same period of the prior fiscal year. As a result, Avatech reported a net loss of \$313,000, or \$(0.05) per fully diluted share, compared to net income of \$3 million, or \$0.15 per fully diluted share, for the same period in the prior year. Adjusted EBITDA (as defined) was \$467,000 in Fiscal 2009 down from adjusted EBITDA of \$4.7 million in the prior year period.

For the fourth quarter of its fiscal year, the Company earned revenues of \$7.2 million, compared to \$11.5 million in the prior-year quarter. Included in the revenues for the quarter was a \$500,000 sale of software that was developed by the Company's software development group. On the expense side,

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selling, general & administrative expenses decreased to \$3.6 million in the three months ended June 30, 2009, compared to \$4.4 million in the same period of the prior fiscal year. For its fourth fiscal quarter, the Company incurred a net loss of \$97,000, or \$(0.01) per fully diluted share, as compared with net income of \$742,000, or \$0.03 per fully diluted share, in the same period in the prior year. Adjusted EBITDA (as defined) was a negative \$4,000, down from adjusted EBITDA of \$808,000 in the prior year period.

The Company indicated that its balance sheet continues to be strong evidenced by its cash balance of \$2.7 million, the presence of only \$160,000 in long-term liabilities and repayments of \$2 million of its Series F Preferred Stock that occurred during the fiscal year. In addition, the Company noted that while it continues to maintain its \$5 million line of credit, it has had no borrowings on its line for the entire fiscal year.

“The building and manufacturing markets were significantly impacted by the global recession throughout fiscal 2009, which resulted in an unprecedented reduction in spending on the types of software and services we provide. Through a proactive management approach, we quickly reduced our costs to adapt to the current business environment. This has allowed us to preserve our cash, minimize our net loss and report positive EBITDA for fiscal 2009, while maintaining our market share and the infrastructure necessary to quickly ramp up operations as customer spending returns,” commented George Davis, President and Chief Executive Officer of Avatech.

“During the past year we have been developing our consulting and services offerings into a stand alone business, MSD Consulting, which taps into our highly-trained staff of engineers. While it was still in its early stages of development in the past fiscal year, this new initiative helped supplement our revenues for the year, generating approximately \$1 million in incremental revenue,” continued Mr. Davis.

“The economy is starting to show early signs of recovery and we are beginning to experience greater interest from customers in our software and services. However, while we are excited about these latest indicators, we are still taking a conservative business approach to fiscal 2010. We expect that the current plan we have in place will result in EBITDA growth in the current fiscal year as we take advantage of the improving market conditions,” concluded Mr. Davis.

## **Conference Call Information**

Avatech Solutions will hold a conference call to discuss its third quarter results at 11 a.m. ET on September 28, 2009. The dial-in numbers for the conference call are (888) 713-4215 (domestic) or (617) 213-4867 (international), and enter the passcode (59540239). A replay of the call will also be available through October 5, 2009, and can be accessed by dialing (888) 286-8010 (domestic) or (617) 801-6888, and dialing the passcode (73265135).

A live webcast of the conference call will be available to all investors in the Investor Relations section of the Company's website, <http://www.avatech.com>. For those who cannot listen to the live broadcast, an audio replay of the call will also be available on the Company's site for a limited time.

## **Note Regarding Use of Non-GAAP Financial Measure**

This news release contains the non-GAAP measure Adjusted EBITDA. Adjusted EBITDA represents earnings (or losses) before interest, income taxes, depreciation and amortization, and stock-based compensation expense.

Adjusted EBITDA is used by management, analysts, investors and other interested parties in evaluating our operating performance compared to that of other companies in our industry, as the calculation of

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EBITDA as adjusted eliminates the effect of financing, income taxes, stock-based compensation costs, the accounting effects of capital spending and certain other merger related expenses, which items may vary from different companies for reasons unrelated to overall operating performance.

Avatech believes this non-GAAP measure provides useful information to both management and investors by excluding certain expenses that may not be indicative of its core operating results. These measures should be considered in addition to results prepared in accordance with GAAP, but should not be considered a substitute for, or superior to, GAAP results. The non-GAAP measure included in this press release has been reconciled to the GAAP results in the accompanying table.

For a summary of consolidated financial data click [here](#).

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## ***ESI Group Results of the First Half of 2009/10 - Growth of Activity - Control of the Cost Structure***

30 September 2009

[ESI Group](#) announced its consolidated results for its first half to 31st July 2009.

### **Consolidated half-year results**

In €millions	HYR 2009/10 HYR 2008/09	
	to 31 July 2009	to 31 July 2008
<b>Total sales</b>	<b>31.2</b>	<b>29.3</b>
- Licences & maintenance	20.7	21.3
- Services	10.5	8.0
<b>Operating profit/loss (EBIT)</b>	<b>-2.2</b>	<b>-1.4</b>
% of sales	-7.1%	-4.7%
<b>Financial profit/loss</b>	<b>-0.8</b>	<b>0.4</b>
<b>Attributable net profit/loss</b>	<b>-2.3</b>	<b>-0.3</b>
% of sales	-7.5%	-1.2%

NB: FY runs to 31<sup>st</sup> January

*Reminder: Consolidation incorporates activities associated with the intellectual property of Vdot software (acquired on 15<sup>th</sup> October 2008) and Mindware (acquired on 16<sup>th</sup> December 2008). The inherent seasonal effect of ESI Group's Licence activity means that a substantial proportion of annual sales are recorded over the second half of the year, leading to substantially higher profitability.*

As announced on 15<sup>th</sup> September 2009, first-half sales totalled 31.2 million euros, up +6.4% in actual terms. At constant exchange rates, sales were almost stable at -0.8%.

### **Gross margin: 61.6%**

The increase in costs of sales, a result of the increase in the percentage of Services in overall sales, and the slower growth in activity, automatically resulted in a decline in the gross margin, which represented

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61.6% of sales in H1 2009 compared to 69.0% over the first half of 2008/09.

For information, notably because of the integration of Mindware, the product mix has significantly evolved towards Services, which represented 34% of first-half activity compared to 27% a year ago.

## **A stable operating cost structure including Mindware integration**

Research & Development costs were, exceptionally, down almost 13% at 5.6 million euros as a result of both the stability in investments and the increased activation of some development costs towards IAS38 norms. Research & Development costs thus represented 18.1% of half-year sales, versus 22.1% over the first half of 2008/09.

Sales & Marketing costs were stable (+0.8%). Their percentage of global activity fell to 34.1% over the first half of 2009/10 from 36.0% over the first half of 2008/09.

General and Administrative costs increased to 5.2 million euros from 4.6 million euros a year earlier, notably because of the effect of the integration of Mindware, of currency effects and of some reclassifications.

All in all, operating costs were well controlled and were down -0.8% compared to the same period of the previous fiscal year, including the taking into account of negative currency effects.

Subsequently, the negative change in operating profit essentially reflects the decrease in the gross margin. The operating loss for the first half of 2009/10 was thus significantly down at -2.2 million euros.

The financial loss was -0.8 million euros over the half, given currency losses and despite the foreign exchange hedging that was set up. Once this financial loss is taken into account, the net loss over the half was -2.3 million euros.

## **Available cash: 11.1 million euros**

Available cash at 31<sup>st</sup> July 2009 was 11.1 million euros. The Group's ratio of long term financial debt over shareholders equity remained low at 13.1%.

## **Key events and outlook**

### **Successful integration of Mindware**

Mindware, an American company acquired at the end of December 2008, has been for the first time fully integrated in ESI Group's consolidated accounts. Mindware is a recognised player in, notably, high value-added engineering services in Computational Fluid Dynamics (CFD). With sales of 2.8 million euros over the first half of 2008/09, Mindware has continued to record significant growth in activity and has confirmed its fine integration within ESI Group.

### **Evolution in the product mix**

A result of the integration of Mindware, the product mix has evolved towards Services activity, which represented 34% of half-year sales. However, this percentage should decrease towards the end of the year given the seasonal effect of the Licence activity.

### **Deployment of End-to-End Virtual Prototyping solutions**

ESI Group successfully initiated, with its automotive clients, the deployment of its new End-to-End Virtual Prototyping integrated solutions, as within VW group. In the current context that makes every improvement in competitiveness critical, this offer further reinforces the high level of repeat Licence sales.

In the energy sector, ESI Group has broadened its referencing as a provider of high-end simulation solutions amongst major French (EDF, AREVA, CEA) and international clients, which suggests significant growth in services and associated software sales.

## **Strong repeat activity for Licences, notably in the automotive sector, despite the difficult economic situation**

The rate of repeat business for Licences remained high at 80%, versus 81% a year earlier, with an installed base up +6.4%. In particular, ESI Group has observed a continuity in orders from its main clients, notably in the automotive sector. However, as announced on 15<sup>th</sup> September 2009, some clients such as those involved in steel production (ex.: foundries, stamping) have been forced to slow down or even temporarily halt their activity and to postpone the renewal of their licences.

## **Lengthening of the sales and customer decision cycles for Services activity**

A lengthening of the sales and customer decision cycles was recorded in the Group's Services activity over the second quarter of the current financial year, notably concerning some major innovative projects and programmes that demand significant change management by the clients themselves.

Alain de Rouvray, ESI Group's Chairman and CEO, says: *"The current adverse environment has resulted in slower growth in our worldwide activity, notably in terms of new orders. The improvement in our annual operational profitability has been affected by this, and will therefore be delayed. Nevertheless, economic difficulties and our clients' need for change have simultaneously increased the strategic value of our innovative solutions, notably for major clients. The positive reception given to our new End-to-End Virtual Prototyping solutions proves this, as does the high level of repeat business for our Licences activity, including amongst our automotive clients. These bear evidence of the appropriateness of our positioning and to our excellent development prospects within a more favourable economic context."*

## **Sales for the 3<sup>rd</sup> quarter of 2009/10:**

**15<sup>th</sup> December 2009**

**(after market)**

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## **Implementation Investments**

### ***ATC Lasham Now Live on Lawson Enterprise Software System***

1 October 2009

Lawson Software announced that ATC Lasham, Ltd., the United Kingdom's leading independent aircraft maintenance organization has successfully concluded a dual site implementation of the Lawson M3 Enterprise Asset Management Suite, including Maintenance, Repair and Overhaul (MRO) functionality. The software implementations covered the company's Lasham and Southend maintenance facilities.

Incorporated in 1995, the company's headquarters at Lasham Airfield was first established by DAN-AIR in 1954 and has been continuously used for maintenance of large commercial aircraft. Since implementing the Lawson M3 system, ATC Lasham has achieved closer operational integration across sites and demonstrated the potential for improvement to its core business processes. ATC Lasham is

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now following up on the initial implementation with the extension of M3 capabilities and is rolling the system out to more users.

ATC Lasham provides engineering services for the maintenance, repair and overhaul of commercial aircraft, so it needs to comply with regulatory changes, repair types and system upgrades. Maintaining aircraft, including engines and components, is a complex activity that relies heavily on an efficient supply chain. This drove ATC Lasham's need for an integrated ERP system with MRO functionality to help streamline the company's operations, provide transparency into its business and offer traceability for internal logistical processes and the company's external supply chain.

"As an independent MRO organization, our primary objective is for the continued airworthiness of our customers' aircraft – and to do so profitably," said Andy Finch, general manager at ATC Lasham. "We needed a system that would help us optimize the utilization of materials, tools and personnel. The Lawson system will help us forecast, plan and procure more efficiently and perform higher-quality maintenance operations."

"This is another great testament of how our focus on Equipment Service Management & Rental allows our customers to become stronger and underscores the value Lawson delivers to them," said Andreas Hellstrom, director of industry strategy, Equipment Service Management & Rental, Lawson. "The MRO Aviation market is getting increasingly competitive and ATC Lasham now has the tools to help drive further success in this tough marketplace where equipment tracking needs are paramount."

[!\[\]\(06c63dadea3471d5a21d94122ad85b6d\_img.jpg\) Click here to return to Contents](#)

### ***Fuji Electric Device Achieves Significant Cost Reduction with Cadence Virtuoso Accelerated Parallel Simulator***

28 September 2009

Cadence Design Systems, Inc. announced that Fuji Electric Device Technology Co., Ltd. cut development costs by about a third by using the [Cadence® Virtuoso® Accelerated Parallel Simulator](#). The company, a leader in power management ICs, credited the simulator with helping design teams boost the quality of their chips, and get them to market faster.

Fuji Electric Device Technology develops high-voltage and high-efficiency AC/DC IC for green IDC power management, communication and automotive markets. To verify a full-chip power system, a simulation technology with high performance and full SPICE accuracy was required.

"The Virtuoso Accelerated Parallel Simulator enabled our design teams to reduce the number of prototyping iterations, leading to a 30 percent reduction in our development costs," said Takashi Kobayashi, general manager, Semiconductor Device R&D Dept., Electron Device Laboratory, Semiconductors Group, Fuji Electric Device Technology Co., Ltd. "Using the Accelerated Parallel Simulator, we have reduced simulation time up to 75 percent for our full-chip designs without sacrificing any accuracy. As a result we are able to deliver high-quality devices and meet the market window."

"We're glad to see Fuji Electric Device Technology place its logo alongside the many other leading technology companies who have discovered the capabilities and benefits of the Virtuoso Accelerated Parallel Simulator for small to large pre layout and post layout designs," said Zhihong Lui, corporate vice president at Cadence. "The company's experience of quality improvements and faster time to market is wholly consistent with what we've been hearing from other companies as well."

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Part of the Virtuoso Multi-mode Simulation, the Virtuoso Accelerated Parallel Simulator provides the next generation SPICE accurate simulation, with scalable performance and capacity, for a broad class of complex analog, RF and mixed-signal blocks and sub-systems with ten thousands of devices. It is tightly integrated with the Virtuoso custom design platform and provides all the transistor-level analysis capabilities as in Virtuoso Spectre Simulator. The proprietary full matrix-solving algorithm delivers unparalleled scalable multi-threading capability using modern multi-core machines.

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## ***MagnaFlow Uses Autodesk Inventor to Improve Engine Efficiency, Reduce Emissions***

30 September 2009

MagnaFlow uses [Autodesk Inventor](#) software to develop automotive components that not only help engines operate more efficiently and consume less fuel, but also reduce the amount of toxic emissions that are released into the environment.

For helping reduce the overall environmental impact of automobiles, [MagnaFlow](#) is being recognized by [Autodesk, Inc.](#) as the Autodesk [Inventor of the Month](#) for September 2009. The company's exhaust systems boost engine performance by expelling exhaust gases quicker than a standard exhaust system. This creates less workload for the engine, making it run more efficiently. The company's catalytic converters help to reduce the toxicity of exhaust emissions by converting carbon monoxide and hydrocarbons into less harmful substances, such as carbon dioxide or water.

MagnaFlow's aftermarket components go through a stringent quality control and field testing process, and their systems are custom-built to match the make, model and year of specific vehicles. Working with Inventor software helps MagnaFlow create parts that are rugged enough to survive from city streets to off-road terrain.

"We're one of the only companies to offer a lifetime warranty on our products, so they have to be built to last," said Bonn Rhee, a project engineer at MagnaFlow. "Leveraging advanced functionality in Inventor software, such as the Sheet Metal tools, lets us help optimize our designs before a single piece of metal has been cut. That way, we know in advance that they'll have the strength and performance they need."

The Inventor of the Month program recognizes the most innovative design and engineering advancements made by the community using Inventor software, which takes users beyond 3D to Digital Prototyping. With Inventor, users can create a single digital model that gives them the ability to design, visualize and simulate products before they are built to reduce the necessity of constructing physical prototypes.

Working in collaboration with Autodesk reseller and training partner, U.S. CAD, MagnaFlow also uses Autodesk Showcase visualization software. Using the digital models created in Inventor software, designers can produce accurate, highly realistic product imagery for use in catalogs or sales presentations -- enabling the company to more effectively market its product innovations.

"Given MagnaFlow's standing as an ISO-9001 certified organization and a leader in its industry, it's not surprising that the company is taking advantage of a Digital Prototyping workflow to design and build better products in less time," said Robert "Buzz" Kross, senior vice president, Manufacturing Industry Group at Autodesk.

For more information about Autodesk Inventor of the Month, contact [IOM@autodesk.com](mailto:IOM@autodesk.com).

## About U.S. CAD

Headquartered in Costa Mesa, Calif., [U.S. CAD](#) is a manufacturing and AEC industry consultant and the largest Autodesk Authorized Value Added Reseller on the West Coast. U.S. CAD's expertise is sought by companies to help them implement digital prototyping, [BIM](#) and sustainable design tools with their comprehensive mix of implementation services that include process assessment and consulting, flexible training options, project mentoring, BIM modeling and production and technical support services. U.S. CAD has offices in Los Angeles, Costa Mesa, San Diego, Las Vegas and Honolulu.

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## *National University of Singapore Fuels Eco-car Innovation with MSC.Software*

30 September 2009

[MSC.Software Corp.](#) announced that National University of Singapore (NUS), one of the leading global universities centered in Asia has achieved tremendous success in Eco-car innovation and competition using MSC.Software's engineering analysis tool, Adams.

The NUS eco-car, KRUCE (Kent Ridge Urban Concept Eco-car) runs on hydrogen fuel cell and was ranked top 5 in the recent Shell Eco-marathon competition that saw 66 entries from 37 different countries. The Shell Eco-marathon is an educational platform that encourages innovation, reinforces conservation and fosters the development of leading technology for greater energy efficiency. At the end of the competition, there were only 28 teams that managed to complete at least one of the three runs. As a testament to NUS's engineering ingenuity using Adams, the eco-car team arrived in time to take part in one run only during the global competition and that run was good enough for a top 5 placement. The team, under the supervision of Associate Professor Lu Wen Feng and Associate Professor Ian Gibson, exceeded all expectations.

"Adams was used in the design of the mechanical steering system, where we needed to understand how various components would react to forces. Adams allowed us to determine the test in virtual environments that optimized the designs for performance, safety and comfort. Once the virtual prototype was completed, Adams checked the model and allowed us to determine the dimensions in terms of the turning circle, steering angle and other aspects of its structural design," said Associate Professor Ian Gibson, Department of Mechanical Engineering, National University of Singapore.

With this highly visible success, the NUS team has begun to fine-tune the vehicle for next year's competition which will be held for the first time in Asia.

"Adams will be fully integrated into the engineering analysis process for the design of the next eco-car and based on this experience with Adams, we have plans to develop a city car that is capable of extreme long-distance travel," added Associate Professor Gibson.

## About National University of Singapore

A leading global university centered in Asia, the National University of Singapore (NUS) offers a global approach to education and research, with a focus on Asian perspectives and expertise. Its education includes a broad-based curriculum underscored by multi-disciplinary courses and cross-faculty enrichment, as well as special programmes. Over 30,000 students from 100 countries further enrich the community with their diverse social and cultural perspectives.

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## ***1,000,000 Starts Of CoCreate® Personal Edition From PTC®***

28 September 2009

PTC® announced the 1,000,000<sup>th</sup> start of CoCreate® Modeling Personal Edition. The CoCreate Personal Edition (PE) is the world's first free explicit 3D CAD software. PE offers all the flexibility of the standard CoCreate Modeling 3D CAD system for assemblies up to 60 parts. Since its release in January 2007, users have experienced the explicit modeling approach in over 100 countries. More than 50% of companies who order CoCreate Modeling as a result of trying the Personal Edition are brand new PTC customers, such as the Denmark-based RoadRazer Car Company.

RoadRazer Car Company develops and produces private sector Formula 1-style personalized sports cars that can be driven on public streets. The RoadRazer is a car you "wear." A team of mechanical engineers and designers tailors each car to fit the physical proportions of its new owner. Because each car is unique, the team needed very flexible software that quickly and easily accommodates radical modification during the complete design process. Creativity and innovation are high priorities for the Danish engineers, who work best while brainstorming and collaborating.

Having used the parametric approach to 3D design, RoadRazer CEO Mikkel Pedersen wanted to find out more about PTC's lightweight and flexible explicit modeling approach to designing products. With CoCreate Modeling, geometry is modified directly without any upfront engineering investment. Pedersen downloaded and tried the free CoCreate Personal Edition from PTC. Quickly convinced that explicit was the modeling approach best suited to his company's design strategy, he contacted PTC partner, JM-Design, obtained the software and attended training. Within a few days, he and the team were working effectively on the new electric motor version of the RoadRazer.

"We were able to quickly and flexibly rework and modify the original car model to fit our plans for our new electric engine version," said Pedersen. "It was so easy to pass work among the team and brainstorm as we sought the best solutions for the new design. Explicit modeling allows quick and easy iterations at any time during the design process. We just accepted or discarded ideas and changes as we worked. You could say, 'We have seen the light!'"

"It is imperative that companies understand their own development process and the way they work with customers," said Martin Neumueller, CoCreate product management director. "The CoCreate explicit modeling approach perfectly fits the design strategy of companies like RoadRazer, where flexibility to invent and customize with last minute changes are the top priority."

Download CoCreate Personal Edition at: [www.ptc.com/go/modelingpe](http://www.ptc.com/go/modelingpe)

Take a look at the RoadRazer in action: <http://www.youtube.com/watch?v=HybcICk8Vgc> or check out the website: [www.roadrazer.com](http://www.roadrazer.com) for more information.

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## ***Polish Engineering Company Adopts ZWCAD for Tooling Design***

30 September 2009

Invenio Poland ([www.invenio.pl](http://www.invenio.pl)) is an automotive engineering company located in Poland. Recently interviewed on the company's use of computer-aided software, Managing Director Jerzy Mydlarz praised ZWCAD as "a good CAD tool with a competitive price."

As a part of Invenio International Group, Invenio Poland provides a full range of product design,

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manufacturing, and engineering services. The firm is involved principally in the automotive industry, specifically in the components sector.

Invenio adopted ZWCAD mainly for its tooling design. Mr. Mydlarz gave high marks to ZWCAD, and confirmed that the software meets the needs and requirements of his firm. “The similarity to AutoCAD is the biggest advantage.”

Mr. Mydlarz continued, “ZWCAD meets our requirements. Without it, I don't think we could get more business or complete it as quickly. The reasonable price of ZWCAD software is a significant contribution to our profitability.”

He underlined another very important feature - having the license of ZWCAD on a USB dongle. This allows the staff of Invenio use the software everywhere – at work, at home, or on business trips.

He is also very pleased with the support provided by ZWSOFT and its authorized distributor in Poland, Usługi Informatyczne. “Specifically, I am satisfied with the cooperation of the local ZWCAD distributor”.

## About Invenio

[Invenio](#) was founded in 1986 in Russelsheim, Germany to perform product design, manufacturing engineering, and quality services for the automotive industry. The Polish division was established in 2002, with headquarters in Bielsko-Biała. Invenio services are linked: product design, quality, supplier quality development, human resources, and process development..

## About ZWSOFT

[ZWSOFT](#) is headquartered in Guangzhou, China, with branches in Beijing, Shanghai, and Wuhan. As a leading supplier of CAD software solution, the company employs about 360 staff and is supported by an international network of highly skilled strategic partners, distributors, and resellers.

ZWCAD is ZWSOFT’s flagship product. It meets the needs of a broad base of target groups in 2D/3D design industries with 150,000 users throughout the world. ZWCAD is the leading brand in China's CAD industry, and it competes successfully in over other 75 countries.

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## Industry-Wide News

### *EDA Consortium Reports Industry Revenue Down in Second Quarter 2009*

30 September 2009

The EDA Consortium (EDAC) Market Statistics Service (MSS) announced that the Electronic Design Automation (EDA) industry revenue for Q2 2009 is \$1,125.5 million, a 5.6 percent sequential decline from Q1. On a Q2/Q2 basis, EDA industry revenue declined 15.8 percent to \$1,125.5 million, compared to \$1,335.9 million in Q2 2008. The four-quarter moving average declined 13.9 percent.

“This recession started with the most precipitous drop in electronics industry history. Nevertheless, the normal pattern of preserving most R&D spending has been maintained by most electronics companies,” said Wally Rhines, EDAC chair and chairman and CEO of Mentor Graphics. “As the electronics industry recovers, and its R&D spending increases to come in line with its growing revenue, the EDA industry would be expected to recover as well.”

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Companies that were tracked employed 26,298 professionals in Q2 2009, down 6.1 percent from the 28,004 employed in Q2 2008, and down 1.0 percent from the 26,561 employed in Q1 2009.

## Revenue by Product Category

Computer Aided Engineering (CAE), EDA's largest category, generated revenue of \$449.7 million in Q2 2009. This represents a 12.2 percent decrease over the same period in 2008. The four-quarter moving average for CAE declined 18.6 percent.

In the next largest category, IC Physical Design & Verification, revenue decreased to \$270.6 million in Q2 2009, a 12.8 percent decrease compared to Q2 2008. The four-quarter moving average declined 19.7 percent for IC Physical Design & Verification.

Printed Circuit Board and Multi-Chip Module (PCB & MCM) revenue decreased 24.1 percent compared to Q2 2008, to \$105.8 million. The four-quarter moving average for PCB & MCM decreased 10.4 percent.

Semiconductor Intellectual Property (SIP) revenue totaled \$221.6 million in Q2 2009, a 16.3 percent decrease compared to Q2 2008. The four-quarter moving average for SIP decreased 5.0 percent.

Services revenue was \$77.8 million in Q2 2009, a decrease of 28.6 percent compared to Q2 2008. The four-quarter moving average for services increased 7.5 percent.

## Revenue by Consuming Region

The Americas, EDA's largest region, purchased \$509 million of EDA products and services in Q2 2009, representing an 11.5 percent decrease compared to Q2 2008. The four-quarter moving average was down 14.7 percent for the region.

Revenue in Europe, the Middle East, and Africa (EMEA) was down 21.1 percent in Q2 2009 compared to Q2 2008 on revenues of \$212.4 million. The four-quarter moving average for EMEA was down 14.3 percent.

Q2 2009 revenue from Japan decreased 21.5 percent to \$217.8 million compared to Q2 2008. The four-quarter moving average for Japan decreased 17.9 percent.

The Asia/Pacific (APAC) region decreased to \$186.3 million in Q2 2009, a 13.1 percent decrease compared to the same quarter in 2008. The four-quarter moving average declined 5.3 percent.

## About the MSS Report

The EDA Consortium Market Statistics Service reports EDA industry revenue data quarterly and is available by annual subscription. Both public and private companies contribute data to the report. Each quarterly report is published approximately three months after quarter close. MSS report data is segmented as follows: revenue type (product licenses and maintenance, services, and SIP), application (CAE, PCB/MCM Layout, and IC Physical Design and Verification), and region (the Americas, Europe Middle East and Africa, Japan, and Asia Pacific), with many subcategories of detail provided. The report also tracks total employment of the reporting companies.

## About the EDA Consortium

The EDA Consortium is the international association of companies that provide design tools and services that enable engineers to create the world's electronic products used for communications, computer, space technology, medical, automotive, industrial equipment, and consumer electronics markets among others. For more information about the EDA Consortium, visit <http://www.edac.org>, or

to subscribe to the Market Statistics Service, call (408) 287-3322 or email [mss09@edac.org](mailto:mss09@edac.org).

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## Product News

### ***Agilent Technologies Announces MMIC Tool Bar Personality for United Monolithic Semiconductors' pHEMT Processes***

30 September 2009

Agilent Technologies Inc. announced the availability of an add-on process design kit (PDK) with enhanced, foundry-certified features for United Monolithic Semiconductors's (UMS) popular pHEMT processes (PH25, PH15, PPH25 and PPH15). Providing the most complete MMIC design flow available using Agilent's [Advanced Design System \(ADS\) platform](#), the new MMIC tool bar personality completely revamps layout functions, adds many design automation and routing capabilities, and helps streamline the MMIC design process. The add-on PDK is available now from UMS.

The new MMIC tool bar personality enables the full set of ADS layout editing commands customized for UMS PDKs, including several single-button commands for converting a trace to transmission-line elements, automatic via insertion, invoking a 3-D layout viewer, and launching the ADS desktop design rule checker -- just to name a few. These capabilities improve design efficiency by enhancing the design verification and synchronization between the ADS schematic and layout environment. Along with the industry-proven 3-D planar EM technology, MMIC designers can now enjoy the MMIC design flow ADS provides.

"We are excited to provide this add-on PDK to use with Agilent's ADS MMIC design platform," said Eric Leclerc, manager of UMS's foundry business department. "This enhanced PDK will largely improve the design experience for both our internal MMIC designers and external customers. Such upgrades will also ensure that ADS users of UMS kits have a complete front-to-back end design flow. We intend to bring this feature to other technologies in the near future."

"This add-on PDK further strengthens our collaboration with UMS, one in which we will work to continuously bring value to our common customers through advanced PDK development," said Avery Chung, foundry program manager of Agilent's EEs of EDA division. "Our recent investment in PDK development has been well received by our common customers. Furthermore, with ADS 2009, users will be able to extract X-parameter\* models of their PDK designs either directly from ADS or through Agilent instrumentation, providing them with an accurate and complete unified behavioral modeling capability and further simplifying the design process."

Agilent customers can find the latest UMS ADS PDK list at:

<http://www.home.agilent.com/agilent/editorial.jsp?cc=US&lc=eng&ckey=1741171&id=1741171&cmid=zzfndeesof-foundry-ums>.

ADS offers complete design integration to designers of products such as cellular phones, wireless networks, radar and satellite communications systems, and high-speed digital serial links. As a leading solution for high-frequency design, ADS supports system and RF design engineers developing all types of RF designs -- from simple designs to the most complex and from RF/microwave modules to integrated MMICs for communications and aerospace/defense applications. For more information about ADS, visit <http://www.home.agilent.com/agilent/product.jsp?cc=US&lc=eng&ckey=1297113&nid=->

[34346.0.00&id=1297113.](#)

## **About United Monolithic Semiconductors**

United Monolithic Semiconductors designs, produces, and markets RF, microwave and millimeter wave components and integrated circuits (ICs) for the telecommunications, space, defense, automotive and ISM industries. The company's positions itself as a "one-stop" supplier to the wireless microwave and millimeter-wave market, offering a broad range of standard and custom MMICs along with an open foundry service. The company has two production facilities, in Orsay, France, and in Ulm, Germany. The company's products and technologies offer performance and high volume capacity. Most technologies are available in open foundry service mode. For more information about UMS and its products and services, please visit <http://www.ums-gaas.com/>

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## ***ANSYS HPC to Enable High-Fidelity Insight and Productivity for Simulation Driven Product Development***

1 October 2009

ANSYS, Inc. announced plans to deliver ANSYS® HPC™, a solution set that will enable customers to obtain enhanced insight and productivity through expanded use of high-performance computing (HPC) with engineering simulation. In contrast to single-point solutions that require separate licenses for each solver, the new [ANSYS](#) HPC products will provide a cross-physics parallel computing capability that supports structural, fluids, thermal and electromagnetics simulation in a single solution. Customers who need to combine multiphysics with HPC to address complex product development challenges stand to benefit from the outstanding value that the consolidated ANSYS HPC package will provide.

In addition, the new ANSYS HPC solution will encourage and facilitate the use of larger-scale parallel processing for high-fidelity simulation by making it more accessible to companies both large and small. The end result will be more detailed results and enhanced insight into product performance that cannot be obtained in any other way. The ANSYS HPC solution will be fully enabled with the upcoming ANSYS 12.1 release, and the cross-physics capability is now commercially available to customers.

"In the past, only the largest enterprises could afford a high level of parallel processing. The new ANSYS HPC solution will enable users across the spectrum to consider more detailed, accurate, and complete simulations than ever before — yielding the kind of detailed understanding that is critical to Simulation Driven Product Development™," said Jim Cashman, president and CEO of ANSYS, Inc. "By providing a single scalable HPC solution that supports the full ANSYS portfolio, we are empowering customers to solve their most challenging design problems. The new solution will have built-in flexibility so customers can use their HPC licenses wherever they have computing resources and people."

High-performance computing increases engineering productivity by accelerating simulation throughput, enabling customers to consider more design ideas and make efficient product development decisions based on enhanced understanding of performance tradeoffs. ANSYS HPC will include the flexibility and scalability to deliver this productivity across today's increasingly distributed IT infrastructure and workforce. The new solutions from ANSYS will allow customers to exploit HPC resources within a workgroup or across a distributed enterprise, using local workstations, department clusters, or enterprise servers, wherever resources and people are located, removing artificial barriers to productivity.

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ANSYS HPC will build on the impressive performance gains delivered with ANSYS 12.0, launched earlier this year. “HPC is evolving rapidly and requires a constant commitment,” Cashman continued. “We’ve achieved exciting milestones in our most recent release, including billion-cell fluids simulations, scaling to thousands of cores, and teraflop performance for structures. But we understand that this is just the beginning. Our development focus on HPC will provide our customers with future capability that we can only imagine today, using new and emerging technologies to deliver the next level of high-fidelity insight and throughput-driven productivity for engineering product development.”

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## ***Aras and Lixto Accelerate Online Data Exchange in the Automotive Industry***

9 September 2009

Aras® and Lixto Software, a leading manufacturer of Web Intelligence solutions, announced the two companies are offering an application for automated data exchange between the Aras Innovator PLM software solution installed at automotive suppliers and the Web portals of their customers in the vehicle industry. The Lixto “Web Process Integration” solution extracts product-related information from Web-based automotive OEM portals quickly and reliably ensures the integration of the data into the PLM business processes at suppliers running Aras.

In the automotive industry data exchange is particularly intensive and automating the process offers significant cost, speed, and accuracy advantages. Manufacturers require that their suppliers provide up-to-date quality data, problem reports, purchasing data and business-critical supplier evaluations (PPM) for quality management, logistics, sales and procurement. With the integrated solution from Aras and Lixto suppliers can ensure that the relevant data from OEM manufacturers, such as GM, Ford, BMW and others, are available within the supplier’s Aras PLM solution in a timely manner for personnel in engineering, quality and product planning.

### **Application Examples**

Product development processes at the supplier that are managed in Aras PLM software solution, such as Advanced Product Quality Planning (APQP) and Engineering Change Management (ECM), connect to Lixto where the results are transferred automatically and accurately to the relevant OEM portal. During volume production, OEM problem reports and quality alerts that result from supplier deliveries are posted within the manufacturer portal and identified by Lixto. Then, Lixto seamlessly transmits the data to Aras where the appropriate process is initiated and escalation occurs at the supplier.

Environmental compliance requirements, including ELV, RoHS and REACH, for new product programs published in OEM Web portals are automatically transmitted to Aras for product development personnel to utilize enabling secure and efficient compliance processes.

The combined offering from [Aras](#) and Lixto delivers a number of advantages for automotive suppliers including:

- Faster supplier problem resolution for greater customer satisfaction
- Significant cost reductions on annual warranty costs and associated penalties
- More effective and accurate information on supplier evaluations, such as PPM metrics

“The combined solution from Aras and Lixto leads to substantially greater process automation at our customers in the automotive industry,” explains Martin Allemann, Vice President EMEA for Aras. “The

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merging of data between the OEM Web portals and a supplier's PLM software solution means that data move quickly and accurately. The supplier eliminates error-prone manual input, improves their service level, and minimizes response time thereby increasing customer satisfaction and winning new business.”

“The collaboration with Aras allows our customers to integrate the Web-based processes of the many automotive OEM supplier portals into their existing PLM processes in the simplest manner possible,” said Christian Koestler, Managing Director at Lixto. “With Aras and Lixto automotive suppliers are in a position to realize savings very quickly.”

Details on the Aras-Lixto solution are available in an eBook download at: <http://www.aras.com/PLM-Software/100136.aspx>

## About Lixto Software GmbH

[Lixto Software](#) offers Web-based solutions for search, aggregation and integration of Web-based data in real time to businesses and end users enabling better decisions and competitive advantage for complex supply chains. Lixto solutions and services include Web process integration connectors, application Metasearch, and market intelligence. Companies benefit from the Lixto Web-based business processes to automation. Lixto Software GmbH is headquartered in Vienna Austria and was founded in 2001 as a spin-off from the Technical University of Vienna. Lixto customers include ZF Friedrichshafen, Voss Automotive, Fujitsu Technology Solutions, hotel.de, the German National Tourist Board (DZT) the Verbund AG and SAP.

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## ***Bunkspeed Introduces HyperShot '10***

28 September 2009

Bunkspeed introduced HyperShot '10, the new release of the patent pending realtime rendering application that was introduced 2 years ago. Completely redesigned for both Windows and Mac OS X, HyperShot '10 changes the paradigm of simple and fast image creation for anyone. HyperShot '10 has just been demonstrated to a crowd of designers at the IDSA International Conference in held in Miami, Florida last week. HyperShot '10 will ship in the Fall of 2009.

HyperShot is the first digital camera for 3D data. Using scientifically accurate materials and real-world lighting in real-time the patent pending application gives anybody involved with 3D data the ability to create photographic images in a matter of minutes, independent of the size of the digital model.

“HyperShot excites the photographer with the fact that one can generate 3D images of photographic quality very quickly without special education, “ says Ralph Richter, one of the leading German car photographers (<http://www.ralphrichter.com>). “The simple and logical layout of the program helps a lot. Complex technical steps are covered by the application itself without interfering with the creative process.”

Richter continues: “It gives me the ability to create reality rather than interpret reality. HyperShot thus becomes the real new digital camera for the photographer.”

## **All new, state-of-the art user interface using latest UI development libraries provided by Apple and Microsoft**

Customizable toolbars and layout  
Floating window palette

Work in true full screen mode

## **Asset Library**

Arrangement and organization of assets (materials, textures, environments) in one single place

All visual representation

Drag and Drop directly from the library into the scene

## **Tool Palette**

Clean reorganization of all tools with all new capabilities

Standard naming conventions

Visual representation of environment, backplate, textures

## **Improved interactivity with scene with realtime feedback**

Sliders with realtime feedback

Widgets for object movement

Drag and drop interaction

## **Model tree**

Visual representation of objects and parts in the scene

Direct interaction with objects and parts

## **Improved material assignment, definition and refinement**

Drag and drop material assignment with interactive preview

Interactive color and parameter adjustment

Visual, more interactive texture mapping

## **Improved camera control and view management**

Interactive perspective adjustment

Save / import individual camera views

True orthographic camera

## **Painting with light © (Mac only)**

Integration with PhotoShop allows for automatic update of lighting inside of HyperShot when HDRI is saved

Works with other HDRI generation applications such as HDRLightstudio, HDRShop et al

## **Scene sharing**

Save camera angles for use in different scenes

Package scene into single file (model, environment, textures, backplate, frontplate)

## **New import capabilities**

Existing bip files can be merged with current scene

IGES and STEP importer for Mac OS X

While the Windows version of HyperShot '10 is still being fine-tuned, the Mac version has been put in the hand of a number of Bunkspeed's clients for Beta testing.

“The interface in Hypershot '10 has undergone one of the biggest changes I've ever seen a single software revision”, says Philip Renato, Associate Professor, Chair, Allesee Metals/Jewelry Design Program, Kendall College of Art and Design ([www.philrenato.com](http://www.philrenato.com)). “It's more attractive, intuitive, and pleasurable to use. Every aspect seems to skip what might have been 3 or 4 incremental improvements.”

Renato continues: “HyperShot '10 will help my students generate portfolio quality renderings as needed,

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concentrating on composition and materials notcaustics and photometrics. When they launch it for the first time I fully expect them to ask: why doesn't our modeling software work like this?"

"It is so intuitive!" says Andrea "Jinx" Talavera, head of CGI at Twister Imaging ([www.twister-imaging.com](http://www.twister-imaging.com)). " And because of that, HyperShot lets you be creative without getting stuck in technical stuff. It is so simple and uncomplicated - simply the best tool to use in advertising. What can I say? It is just amazing."

"HyperShot '10 delivers the ultimate user experience for both PC and Mac users that you would expect from a modern software application", says Philip Lunn, Founder and CEO of Bunkspeed. "Software can never be simple enough. By working closely working with our customers and partners pictures for design reviews and decisions, client presentations, sales and marketing, or advertising can now be created even easier and faster, with even higher quality.

HyperShot '10 will be available for purchase in Q4 of 2009. For more information visit [www.bunkspeed.com/hypershot10](http://www.bunkspeed.com/hypershot10).

## About Bunkspeed

Bunkspeed is a leading global provider of 3D computer graphics software and services for design, engineering, and marketing.

Founded in 2002, Bunkspeed's list of customers now includes many of the major automotive manufacturers, Fortune 1000 product manufacturers, and major industrial design companies including Honda, Nissan, Ford Motor Company, Chrysler, Pininfarina, BMW Designworks, Porsche Design, Kohler, Dell, Microsoft, Nokia, IDEO, frog design and SMART Design.

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## *Cadence Extends Performance Leadership with Expanded Multi-Core Support*

29 September 2009

Cadence Design Systems, Inc. announced the immediate availability of expanded support for multi-core processors across multiple technology domains. These new capabilities significantly improve performance and throughput of key products in the [Cadence® Encounter® digital IC design](#), [Incisive® verification](#), [Virtuoso® custom IC](#), and [Allegro® PCB and IC packaging](#) platforms. These improvements represent the latest in Cadence's ongoing initiatives to address the changing landscape of computing infrastructure by providing leading multi-core support for a wide range of products across all segments of the EDA industry.

New multi-core capabilities within Encounter include support in the Conformal product family. Encounter Conformal Equivalence Checker automatically partitions designs to speed up the comparison across multiple cores, checking for equivalence of each portion and then combining the results. It also utilizes concurrent algorithms to verify more complex circuits.

The Incisive Enterprise Simulator family has added the first stage of multi-core support, allowing parallelization of the simulation process. In addition, Incisive Formal Verifier now provides support for the distribution of formal engines across multiple cores, with automatic selection based upon design size and complexity.

"We have experienced performance improvements of up to 2X with the initial multi-core capability in IES," said YJ Patil, manager of Video IP IC Verification Engineering, TV and Monitor Division, Home

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Entertainment and Displays, at STMicroelectronics. “The approach used by Cadence is independent of design style, so we expect all of our projects to benefit from current and future enhancements.”

Virtuoso Analog Design Environment (ADE) now provides multi-core distributed processor capabilities. ADE XL provides automatic partitioning and distribution of multi-test, multi-corner and Monte Carlo simulations for performance improvement of two to five times. ADE GXL now offers multi-core circuit optimization with speedup of 1.5 to three times, and parametric yield optimization with speedup of 1.5 to five times. These performance-related improvements enable designs to be simulated and optimized in parallel across multiple environmental and process variations while verifying the combined results against design specifications. Virtuoso MMSIM also now includes multi-core capabilities, allowing its SPICE circuit simulations to scale across multiple processors for increased performance.

Finally, the Allegro platform will provide multi-core support for design rule checking for its PCB, IC packaging and SiP implementation technologies in Q4 of 2009. This support has demonstrated performance increases of up to three times when using a quad-core processor.

“The computing paradigm started changing from scalar to multi-core architectures years ago, and we fully embraced that trend,” said Charlie Giorgetti, corporate vice president of Solutions and Product Marketing at Cadence. “By expanding our pioneering support for multi-core processors, we are continuing our long tradition of technology and solution leadership, helping our customers to do designs more efficiently, and with less risk.”

The new multi-core capabilities complement the extensive multi-core support already available across a wide range of product lines at Cadence. These products include Encounter RTL Compiler; Encounter Digital Implementation System; Encounter Timing System; Encounter Power System; Cadence QRC Extraction; Virtuoso Accelerated Parallel Simulator; Cadence Physical Verification System; Assura Physical Verification; the Cadence DFM suite, including Litho Physical Analyzer, Litho Electrical Analyzer, and CMP Predictor; Incisive Verifault-XL; and the Incisive Palladium series of accelerators/emulators.

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## ***Cadence Introduces the EDA Industry’s First Verification Solution for PCI Express 3.0***

1 October 2009

[Cadence Design Systems, Inc.](#) announced it has developed Open Verification Methodology (OVM)-based verification IP (VIP) to assist developers working with the emerging PCI Express Base Specification 3.0 (PCIe 3.0) interconnect protocol, which is currently under development within the PCI-SIG at a preliminary revision 0.5. The new Cadence Incisive® VIP features the Cadence [Compliance Management System](#), a metric-driven verification solution that automates protocol compliance verification and can help early PCIe 3.0 adopters meet quality and time-to-market goals.

“The PCI-SIG PCIe 3.0 specification doubles the interconnect performance bandwidth of the ubiquitous and general-purpose PCI Express I/O standard,” said Al Yanes, PCI-SIG president and chairman.

“Cadence's continued support will expedite the industry adoption of this new technology.”

“The delivery of this new verification IP underscores Cadence’s commitment to providing valuable verification assistance to developers working with emerging protocols,” said Michal Siwinski, group director of Front End Marketing at Cadence. “As one of the most advanced offerings in our VIP catalog, the PCIe 3.0 module provides advanced verification technology for developers working with the latest

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protocols, shortening development time, increasing team productivity, and reducing overall project costs.”

The Cadence Incisive Verification IP Portfolio supports more than 30 industry standards and has been available since Q3 2008. The new VIP for PCIe 3.0 is available now for early adopters, and is expected to be released in Q1 2010.

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## ***Cadence Physical Verification System Supports TSMC’s Interoperable iDRC and iLVS Formats for 40-Nanometer Design***

29 September 2009

Cadence Design Systems, Inc. announced that the Cadence Physical Verification System has adopted the new interoperable physical verification formats for 40-nanometer designs, consisting of iDRC for design rule checking and iLVS for layout vs. schematic checking, developed by Taiwan Semiconductor Manufacturing Company (TSMC). Cadence support of these new TSMC formats builds upon the previously announced Cadence QRC Parasitic Extraction support for the iRCX file format. This combination of physical verification and parasitic extraction and analysis capabilities ensures the continued availability of accurate and consistent manufacturing data to enhance silicon yield for Cadence customers using TSMC nanometer processes.

The iDRC and iLVS formats facilitate the advanced design rule and device extraction capabilities necessary to ensure the integrity of designs implemented in TSMC’s advanced processes. Using a common rule format ensures accuracy and consistent presentation of results regardless of the physical verification solution that each customer chooses.

“Cadence and TSMC have collaborated on iDRC, iLVS and iRCX to ensure that users of the Cadence Physical Verification System and QRC Parasitic Extraction have timely access to silicon-accurate checks for today’s nanometer processes, and the process generations beyond,” said Tom Quan, deputy director of design service marketing at TSMC. “The new unified data formats are part of the TSMC Open Innovation Platform™ that provides designers the ability to select best-in-class EDA tools to match their design needs and improve design accuracy for first time silicon success.”

“Adopting the new TSMC iDRC and iLVS rule deck formats takes the advanced capabilities of the [Cadence](#) Physical Verification System closer to the source of the process data,” said Dr. Rachid Salik, vice president of research and development for the verification group at Cadence. “This combination ensures that we can deliver accurate results with a rapid turnaround time. We are confident that the continued strengthening of our relationship with TSMC will bring real benefits, value, and choice to our mutual customers.”

The addition of iDRC and iLVS support in the Cadence Physical Verification System, and iRCX support in Cadence QRC extraction technology, provides complete integration with Cadence digital and custom design flows, and therefore providing a front-to-back design and signoff flow from a single EDA vendor. The product facilitates a “one tool, one deck” model for digital and custom design that minimizes support overhead.

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## ***Celeritive Signs Gibbs and Associates to Sell VoluMill for GibbsCAM; Broadened exposure for***

## ***VoluMill in Europe, Asia and South America***

29 September 2009

Celeritive Technologies, Inc., an independent, third-party developer of high-speed machining technologies that increase machine shop productivity has signed an agreement with Gibbs and Associates of Moorpark, CA to offer the high-speed machining toolpath engine VoluMill as an option for its GibbsCAM CAD/CAM product.

[VoluMill](#), created by Celeritive, is a toolpath engine that is fully integrated with GibbsCAM. Soon, GibbsCAM also will have VoluMill Solids as an option with GibbsCAM. This new genre technology generates ultra-high-performance toolpaths with smooth radial motions and controlled force on the spindle and cutting tool. VoluMill toolpaths are based on optimal material removal parameters that dramatically reduce cycle times and significantly extend the life of cutting tools.

“VoluMill is the first third-party product that my resellers are talking about and asking for,” says Bill Gibbs, founder of Gibbs and Associates. “Early Gibbs users are raving about the impact VoluMill is having on their operating costs. The VoluMill option will become part of Gibbs’ standard offering and will be promoted, shown and demonstrated at trade shows and in webinars.”

GibbsCAM provides shop-proven CAD/CAM software for 2- through 5-axis milling, turning, mill/turning, multi-task simultaneous machining and wire-EDM. Its customers include Fortune 500 companies such as Boeing, Ford Motor Co., Lockheed Martin and Raytheon as well as companies in global markets.

“This agreement will broaden the exposure for VoluMill in Europe, Asia and South America, and increase the size of our sales channel significantly,” says Larry Lynott, Celeritive Technologies’ vice president of sales.

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## ***CGTech Ships VERICUT 7.0***

30 September 2009

[CGTech](#) has released the next major version of VERICUT CNC machine simulation and optimization software. VERICUT 7.0 features significant performance-improving enhancements that reduce the time required for manufacturing engineers to develop, analyze, inspect and document the CNC programming and machining process. Instead of focusing on new features or add-on modules, CGTech developer resources have focused on diligent code optimization and customer-driven enhancements.

“VERICUT has been reorganized with a new user interface for maximum efficiency.” said John Reed, Managing Director, CGTech Ltd. “Not only is the software extremely stable and significantly faster, it has never been easier to set up a VERICUT project. This release will set a new standard for the world’s most advanced CNC simulation system.”

### **User Interface Improvements**

CGTech sought to reduce the number of pop-up dialogs for day-to-day VERICUT users and eliminate any confusion associated with “Apply”, “OK” and “Cancel” buttons. As a result, setting up a new project in VERICUT has been simplified. Items formerly in pop-up dialogs have been moved to the Project Tree, where all projects are now configured by using an intuitive configuration panel automatically displayed as the user selects each branch. Actions are immediate, so “Apply” or “Okay”

clicks are unnecessary.

The Component Tree has also been merged into the Project Tree but can be optionally hidden. Additionally, the Project menu is now much simpler with menu actions moved to the Project Tree. All these updates mean the user can stop hunting through menus to find a function; everything the user needs is now in one place.

## **Motion Simulation Changes**

VERICUT 7.0's motion processing is all new. Thousands of development hours have gone toward optimizing VERICUT's internal code for the fastest, most efficient motion simulation to date. Motion Simulation refers to how VERICUT calculates the motion path from the NC data and animates it. The motion in all view-types is now coordinated and tool images are consistent. Collision tolerance and motion display are independent. When set to stop at a travel limit, the simulation continues the motion with axis clamped, while any cuts during a limit error are painted red. A 5-axis NC block is now one motion and simulation times overall are shorter due to improved efficiency.

## **Collision Detection Enhancements**

All collision configurations is now done via the collision branch in the Project Tree. 5.x and 6.x collision configurations are upward compatible and read into 7.0. This central location for all collision control eliminates any possibility of duplicate collision checks. All current functionality is maintained. The user can define a near-miss collision with cut stock, and all near-miss and actual collision errors are separated in the logger. Components turn red upon first display of the collision contact, instead of at the end of the colliding motion.

## **CAD/CAM/PLM Integration Update**

VERICUT runs standalone, but can also be integrated with leading CAM systems such as Catia V5, Siemens NX, Pro/E, MasterCAM, EdgeCAM, Delcam PowerMill and Open Mind HyperMill.

There have been specific enhancements in VERICUT Version 7:

VERICUT can read Siemens NX Part Files directly when NX is on the same computer. NX parts can be referenced either directly from within VERICUT, or via the NX-to-VERICUT interface.

The CATIA V5-To-VERICUT Interface has been enhanced with many new features for managing tools. The user can merge tools from a template with new tools from the Part Operation, and optionally put all unique tools in one tool library. The user can also use CATIA-referenced STL models.

VERICUT holders are now named using the holder names already defined in CATIA. Additional new features include the option to specify work offset subsystems and set model tolerances for the stock, fixture and design models.

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## ***COADE and ASD to Integrate CAESAR II for Pipe Stress Analysis and ASD Pipe Support Optimizer***

30 September 2009

COADE, Inc. and ASD Global announced a collaborative initiative to provide an integrated approach to pipe support placement by allowing [COADE](#) CAESAR II and ASD Pipe Support Optimizer (ASD PSO) to work together. This product-level integration will allow ASD PSO to automatically place pipe supports into the CAESAR II pipe model for seamless and more efficient analysis.

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The capabilities within ASD PSO are designed to automatically locate and select logical pipe supports for a piping design. The output from ASD PSO will greatly benefit both designers and engineers by allowing support information to be automatically passed to CAESAR II for stress analysis and, because of the seamless bi-directional links between CAESAR II and COADE CADWorx Plant, designers can quickly optimize support locations in the design, thereby maintaining the integrity of both the engineering and design.

This collaboration will allow designers and engineers, equipped with both COADE CAESAR II and ASD PSO, to streamline their work processes by automating the selection of pipe supports for all major load cases prior to the detailed pipe stress analysis. This initiative brings value during the FEED and detail design stages of a project by reducing the iterative process for support selection and stress analysis. In today's challenging environment, COADE and ASD are working closely together to deliver greater value and increased productivity to their customers. For information about COADE CAESAR II, visit <http://www.coade.com/products/caesarii>.

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## ***Common Platform Alliance Qualifies Synopsys IC Validator for 32-nm Design Rule Checking***

30 September 2009

[Synopsys, Inc.](#) announced that the Common Platform technology alliance, a technology collaboration between IBM, Chartered Semiconductor Manufacturing and Samsung Electronics, has qualified IC Validator for 32-nanometer (nm) process design rule checking on Common Platform technology. Synopsys and the Common Platform companies are continuing with the collaboration to complete the qualification of IC Validator at 28nm on Common Platform technology. IC Validator, the newest addition to the Galaxy™ Implementation Platform, is a full signoff DRC/LVS solution. In addition, IC Validator has been architected as an ideal add-on to IC Compiler for in-design physical verification, enabling place and route engineers to accelerate time to tapeout and improve manufacturability by enabling physical verification within the implementation flow. This qualification enables Common Platform customers to deploy IC Validator into production use at 32nm and see benefits from the productivity advantages of in-design physical verification in conjunction with the IC Compiler place and route solution.

"We believe that in-design physical verification is essential to significantly reduce physical verification turnaround time given the complexities at emerging nodes," said Henry Law, vice president, design services division for Chartered, on behalf of the Common Platform alliance companies. "Architected for 45nm and below process nodes, IC Validator offers a highly flexible programming language that makes runset creation at these complex nodes easy and concise. Our qualification of IC Validator confirmed its signoff accuracy and productivity benefits of in-design physical verification. Given the observed benefits, we are committed to qualifying IC Validator for the Common Platform 28nm process node."

Prevalent approaches to physical design and verification can be described as "implement-then-verify" and result in multiple iterations between design and signoff. In-design physical verification accelerates design closure by enabling sign-off quality rule checking and fixing during the design process, avoiding late stage surprises that can jeopardize project schedules. Other benefits include incremental processing, automatic error detection and fixing, near-linear scalability across multiple CPU cores and the elimination of expensive stream-outs and stream-ins. IC Validator also offers significant automation and innovative features such as DRC error classification or DRC waiver, multi-user collaboration,

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customized reporting and on-the-fly error reporting that can further improve physical verification turnaround time.

While in-design physical verification is facilitated by seamless integration with IC Compiler, IC Validator's foundry-endorsed, signoff-accurate engine is its core strength. Powered by its hybrid data and command-processing engine, IC Validator is a full signoff DRC/LVS tool offering the high accuracy necessary for leading-edge process nodes, excellent scalability for efficient utilization of available hardware and high programmability for easier runset development. For runset writers and CAD managers, IC Validator offers a flexible programming language that can cut runset size from 2 to 10x, lowering the cost of setting up, maintaining and modifying the physical verification environment.

"Common Platform technology companies have always been at the forefront in defining high-productivity flows for advanced processes," said Bijan Kiani, vice president of product marketing, design and manufacturing products at Synopsys. "This qualification marks an important milestone in supporting leading-edge technology from the Common Platform alliance and will bring IC Validator's unique value proposition to our mutual customers and partners. We look forward to our continued collaboration towards the 28-nm qualification."

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## ***Emergent to Provide 'Knowledge Connectors' Through Siemens PLM Partnership***

28 September 2009

[Emergent Systems](#) announced it has entered into a partnership agreement with Siemens PLM Software. Emergent Systems joins the Siemens Solution Partner Program as a Software and Technology Partner to provide clients within the Siemens PLM Software user community with the solution for Enterprise Engineering Knowledge Management.

Under the terms of the agreement Emergent Systems will market its 'Connector' applications which enable the flow of technical know-how from Emergent's Engineering Knowledge Management solution into NX™ software and Teamcenter® software. The result is a line of 'Knowledge Enabled' engineering tools available to customers starting in the third quarter of 2009.

"The current economic realities facing engineering leadership demand an innovative approach to all phases of engineering," said Jeff Moffa, VP at Emergent Systems. "This manifest imperative reaches beyond the need for incremental improvement; required is a fundamental and game changing approach to engineering, a change that produces significant increases in both product quality and engineering process efficiency.

"The cornerstone of the Siemens PLM Software and Emergent Systems' technology combination is the ability to retain and dynamically deliver engineering 'know-how' into engineering processes where it is integrated into the fabric of individual engineering workflows. Integrated 'Know-how' leads to the game changing benefits of higher engineering productivity, and higher quality products."

Emergent's Enterprise Engineering Knowledge Management solution, E2ks, represents a new approach and technology for managing technical know-how across the Enterprise. The solution enables the elicitation and formalization of 'tribal knowledge' into re-useable, actionable, executable, and measurable 'Enterprise Technical Memory'. As a result, the solution represents an excellent complement to the knowledge-enabled logic found in Siemens PLM Software's NX Knowledge Fusion application.

"Siemens PLM Software is pleased to partner with Emergent Systems as part of our ongoing effort to

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provide high value technologies to our customers," said Rich Ramsey, vice president of Partner and Components Marketing, Siemens PLM Software. "By further expanding upon our existing knowledge-based solutions, this partnership will help our customers incorporate more engineering knowledge into their product development processes."

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## ***ESI Announces the Release of ACE+ Suite V2009.2; New enhancements benefit automotive, aerospace, fuel cell, and electronics industries results***

1 October 2009

[ESI Group](#) announced the latest release of the [ACE+ suite](#) of Computational Fluid Dynamics (CFD) and Multiphysics simulation software. Version 2009.2 includes new enhancements of significant benefit for automotive, aerospace, fuel cell, and electronics customers.

### **Shorter prototyping process**

The [ACE+ suite](#) allows the acceleration of the product development process by accurately simulating multiple physics in a single solution. Built around the [CFD-ACE+](#) multiphysics solver and including specialized technology tailored to solve difficult applications, the tools within the suite can analyze complex physical phenomenon at the macro, micro, and even nano scales. The suite, also comprised of advanced automated meshing using [CFD-VisCART](#)'s adaptive mesh generation, substantially reduces the time needed to prepare complex geometries compared to traditional hex or tetrahedral meshing methods. This unique combination of specialized solver technology and advanced productivity tools makes the [ACE+ Suite](#) a powerful asset for customers.

Version 2009.2 includes significant updates to the [CFD-ACE+](#) Advanced CFD and Multiphysics solver, [CFD-FASTRAN](#) density-based solver for high-mach flows, [CFD-GEOM](#) modeler and mesh generator, [CFD-VisCART](#) adaptive automated mesh generator, and [CFD-VIEW](#) visualization tools. Those enhancements have been made to increase usability, robustness and accuracy.

### **Benefits to select industries**

**Automotive** customers will receive an increased benefit from the implementation of a new advanced turbulence model and the inclusion of automated boundary layer meshing in [CFD-VisCART](#), which has dramatically improved both the speed and accuracy for large aerodynamic simulations.

New **aerospace** applications were addressed in this release with the ability to allow thermal coupling between [CFD-FASTRAN](#) and [CFD-ACE+](#) to simulate high-mach re-entry heating of spacecraft.

**Fuel cell** design engineers continue to benefit from a multi-year investment by the US Department of Energy to refine the multi-phase and porous media capability of [CFD-ACE+](#), allowing ESI customers to simulate more accurately the electrical, structural, and water management performance of these complex electrochemical energy conversion devices. Finally, the **semiconductor** manufacturing process simulation toolset received improvements for analyzing capacitive coupled plasma (CCP), which is one of the most common types of industrial plasma sources.

*"The latest release of the ACE+ Suite includes many new features and developments designed to further improve our value proposition of high productivity coupled with highly accurate physics for the applications we have targeted",* said **Joseph Strelow**, Director of Virtual Environment Solutions at ESI. *"This release benefits significantly from the expansion of our global CFD services activity which is*

*becoming the driving force behind this application-focused approach to development”.*

More details about the release are available at <http://www.esi-group.com/products/Fluid-Dynamics>

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## ***EVE’s ZeBu-Server Proven Fastest Emulator on the Market***

29 September 2009

EVE noted that its new emulation system ZeBu-Server can emulate a single design at a speed of up to 30 megahertz (MHz), based on recent benchmarks.

Additional benchmarks proved that ZeBu-Server can emulate a one-billion gate design at a speed of one MHz, 100-million gates at speeds reaching five MHz and a 10-million gate design at a speed of 10MHz. It is able to communicate with multiple host PCs at up to three gigabits per second (Gbps) per machine. This enables a video transactor to display high-definition television images at multiple frames per second or to download the entire system-on-chip (SoC) software content in the emulator in a fraction of second.

"Execution speed is critical for large SoCs where hardware integration and software applications require fast initialization and billions of cycles to be executed in the shortest time," says Lauro Rizzatti, EVE’s vice president of worldwide marketing. "ZeBu-Server’s performance, high-capacity, automated compilation and interactive debugging capabilities make it the perfect vehicle for verifying high-end graphics and processor chips, applications where custom chip-based emulators struggle to reach speeds of a few hundred kilohertz."

Priced from \$150,000 or less than a penny per gate for large configurations, ZeBu-Server offers a high level of automation, short compile time, multi-user capabilities and greater execution speed than previous generations of emulators. It is suitable for all SoC verification needs across the entire development cycle, from hardware verification, hardware/software integration to embedded software validation.

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## ***Gibbs and Associates Announces Partnership with Celeritive Technologies***

1 October 2009

Gibbs and Associates announced it will partner with Celeritive Technologies to incorporate VoluMill™ as an integrated option for GibbsCAM. This software collaboration will provide a seamless integration between GibbsCAM and VoluMill’s ultra-high performance toolpath engine.

“One challenge of CNC machining is how to cut a part faster,” states Bill Gibbs, Founder and President of Gibbs and Associates. “With a CNC machine being the major cost factor in a CNC shop, machine time is literally money. CAM software plays a key role in the production of part programs that can cut parts faster. Gibbs is constantly seeking new and improved technologies to help Gibbs customers.” VoluMill’s capabilities provide GibbsCAM customers a high-performance solution to optimize run cycle times.

VoluMill within GibbsCAM offers expanded milling solutions for cutting methods that maximize material removal rates by building toolpaths that optimally control tool cutting factors. The process

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automatically takes into account the best option for milling pockets, including the speed of a tool plunging into the material and material removal rates. Variation in tool load is smoothed, allowing the machine to use much higher speeds and feeds.

The collaboration between the software packages realizes the CNC machining industry's need for CAM software that properly handles new technology advances in speed to feed ratios for optimum cycle times and tool life. VoluMill provides today's CNC machine owner the ability to increase tool life and automatically take into account the removal of excess material left over after milling a pocket.

For more information about GibbsCAM and GibbsCAM's VoluMill expanded capabilities, or to locate your local GibbsCAM reseller, go to <http://www.GibbsCAM.com>, call 1-800-654-9399, or email [info@GibbsCAM.com](mailto:info@GibbsCAM.com).

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## ***Intergraph(R) Releases SmartPlant(R) Construction Developed from Industry Best Practice Work Processes, Software Increases Productivity, Saves Time and Reduces CAPEX Costs***

29 September 2009

Intergraph® released SmartPlant® Construction, a new SmartPlant Enterprise software module created specifically for process, power and marine firms to more efficiently plan and manage plant, ship and offshore construction, resulting in increased productivity, accelerated project completion, and reduced risk. By integrating engineering, procurement, fabrication and site materials, SmartPlant Construction facilitates improved work planning, efficient information exchange for better communication and enhanced engineering and construction work processes.

Using current information from various sources such as 3D models, 2D engineering tools, materials management and project control and scheduling systems, SmartPlant Construction ensures accurate and timely decisions can be made on the best available information. The software integrates all necessary information to develop precise and flexible work packages to better manage labor and materials at the work site. Effectively managing and integrating information relevant for construction helps to shorten project times, reduce costs and improve CAPEX efficiency for owner operators.

SmartPlant Construction was developed by engaging plant, marine and offshore engineering, procurement and construction industry leaders to provide industry best practice work processes. Intergraph SmartPlant Construction premier partners include companies such as Fluor, Technip, CTCL, Kiewit, Nexen, and URS Washington Division. For more information about the premier partners' role and SmartPlant Construction, please visit Insight Magazine, Issue 25 at <http://www.intergraph.com/insight>.

The overarching goal was to create an integrated next-generation information management platform necessary to keep field personnel actively engaged in advancing the project - saving time and money while increasing accuracy. Expected benefits from the use of SmartPlant Construction are:

- Improved work force productivity
- Expedited field construction (shorter project execution phase)
- Reduced CAPEX costs
- Better data exchange and communications between engineering and

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construction teams

- Information integration between all necessary tools
- Low training costs and reduced time resulting from a simple user

interface

Features include dynamic work package planning, enhanced graphics interface with the 3D model, unique "drag and drop" functionality and direct interfacing with scheduling systems. To enhance flexibility and interoperability, SmartPlant Construction is an integrated solution with an open API to accommodate 3D models and other data from popular third-party applications.

"Intergraph's approach to the construction industry gives us great confidence that the product will be exactly what the industry needs," said Alex Lu, with CTCI, the largest engineering, procurement and construction (EPC) company in Taiwan. "Engaging several of the leading global companies in this effort shows the commitment that Intergraph has made. Intergraph understands the requirements for the industry and this understanding is paramount to ensuring the success of the product."

SmartPlant Construction is part of Intergraph's SmartPlant Enterprise integrated solutions suite that provides full design, construction, materials and engineering data management capabilities needed for the creation, safe operation and maintenance, and capital Project Life Cycle Management (cPLM) of large-scale process, power, marine and offshore projects. The software's life cycle data management also enables a smoother handover for EPCs to owner operators and for owner operators to more easily maintain, refurbish or modify their plants.

For more information and to register for a SmartPlant Construction webinar to be held Oct. 1, 2009, please visit <http://www.intergraph.com/promo/spc>



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## ***Kubotek Spectrum Multi-CAD Viewer \$99 Extended through October***

1 October 2009

Kubotek announces that the \$99 sale price for the Spectrum Multi-CAD viewer will be extended through October. Kubotek Spectrum views, manipulates and prints 2D and 3D CAD formats like SolidWorks, AutoCAD, NX, CATIA V4, Pro/E, IGES, STEP and many others. It also allows users to measure and calculate mass properties. The viewer normally retails for \$695. A version of the product is also available that allows companies to view the CATIA V5 format. The price for this extended version is only \$599 (retail price is \$2500).

Many people who deal with 3D CAD data are non-CAD users, but still need to view CAD files for quoting, estimating, collaboration, design review, extracting manufacturing information or other non-design purposes. Kubotek Spectrum is employed by many throughout the design and manufacturing process from sales, marketing and management to the shop floor, purchasing and quality. The Kubotek Spectrum Multi-CAD viewer is an inexpensive solution to communicate 3D data throughout your organization and supply chain.

There is a [free seven day trial](#) available for the standard version viewer to test out the product prior to purchasing.

"We've had such a positive response to our sale that we decided to extend it for another month. We are

offering the most cost effective professional multi-CAD viewer on the market today. OEMs and manufacturers everywhere need the ability to view, measure, and print CAD models and drawings that are non-native to their proprietary CAD packages. Our Spectrum multi-CAD viewer allows them to do that without the cost or complexity of owning multiple CAD packages or multiple viewers.” says Scott Sweeney, Vice President at Kubotek. “If manufacturers and product designers really want to extend their productivity, they should also know that Kubotek offers products for direct modeling, editing, comparison and validation of non-native CAD files for a variety of other engineering and manufacturing related purposes.”

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## ***Lectra Launches the New Version of Kaledo®, its Unique Fashion-Specific Design Solution***

1 October 2009

[Lectra](#) announced the availability of the new version of Kaledo® V2R1.

Kaledo enables creative teams to benefit from the latest advances in design technology, both for textile and fashion. Kaledo brings design, product development, marketing and management teams together—helping them to collaborate when developing trends and collections. Kaledo includes modules to create highly realistic simulations of prints, weaves and knits, and to develop variations in just a few mouse clicks.

Kaledo functions on a platform specially devised to meet the specific needs of fashion companies. Its range of tools enables designers to increase productivity while facilitating the exchange of ideas, visuals and data between teams.

### **Fashion: a rapidly-changing market facing a number of challenges**

“Fashion companies today really have to evolve, as the market has changed. They are under enormous pressure to produce attractive, original styles at reasonable prices, and to do so faster and more frequently than before,” explained Daniel Harari, Lectra CEO. “The result of more than 30 years in technological design solutions and our collaboration with some of the biggest names in fashion, Kaledo is an unprecedented step forward which will allow our customers to reach previously unequalled levels of productivity. Our objective is not only to support them as they face their current challenges, but also to help them prepare for the end of the economic crisis so that they emerge with an edge over their competitors.”

Designers are now expected to produce profitable and technically feasible collections more frequently, while at the same time displaying more creativity. To meet this challenge, they must not only be able to count on powerful tools but also on the know-how of other professionals within the company. Close collaboration involves more specialists early on in the process and enables designers to create collections that are more coherent and better adapted to the demands of the market—an absolute must in the current economic climate.

“Even those involved in creative activities are now being put under pressure to show more productivity. With Kaledo, fashion companies can develop new models and collections using existing elements, capitalizing, season after season, on their creative assets while taking new trends into account. They can thus respond to a request for designs or modifications in just a few hours, all the while ensuring the quality of their styles and limiting their costs,” added Anastasia Charbin, Head of Lectra’s design solutions.

## **Kaledo V2R1, a real leap forward for the fashion industry**

“After a careful and detailed validation process, Sonae Distribuição chose Lectra’s design solutions at the end of June 2009. Using Kaledo, we expect to observe significant improvements in all our processes that center on design. Kaledo will centralize all product data in a single, organized location, boost the creative process by automating repetitive manual tasks, improve the quality of product specification data, and improve and facilitate communication and data exchange between the different agents of the process, both internal and external. We rely on Lectra’s experience and know-how in the fashion business to ensure that we accomplish all these goals,” said Dr. Miguel Costa Seixas, General Manager for Textile Business for Sonae—the largest distributor in Portugal (supermarkets), also operating in the textile sector.

“Kaledo is an excellent fashion design solution, perfectly suited to the needs of our business. The new V2R1 version has simplified and accelerated the entire design process from initial sketches to technical specifications, making our day-to-day activities much easier and faster,” said Giulio Tonin, Information Systems Director at Diesel.

Kaledo sits on a platform that unites all of the company’s teams and design-related activities, which improves the design process—as experts from both Sonae and Diesel point out. These major players have also been able to benefit from considerable improvements in the textile development process.

Comparative tests have proved that the new version of Kaledo enables designers to halve the time they spend on repetitive tasks and allows them to handle the large files commonly used in the fashion business in record time. Kaledo also lets them save considerable amounts of time compared to U4ia, the previous industry standard.

“I’m really impressed with the improvements I’ve seen in Kaledo V2R1. I started off using U4ia, moved on to Kaledo V1, and have now migrated to V2 and have really seen a marked progression in the solution,” said London-based luxury women’s wear designer, Maria Grachvogel. “Kaledo opens up so many new possibilities. The time saved is extraordinary— Kaledo has truly enhanced my creativity and enabled me to create textile designs that would otherwise have been practically impossible.”

Another new feature of the solution allows users to save and organize Adobe Illustrator files straight into the Kaledo database.

## **Kaledo and Lectra’s range of professional services**

As part of Lectra’s commitment to supporting its customers, Kaledo is accompanied by a range of high value-added services—consulting, implementation, training and support—provided by Lectra’s design experts. Through this personalized support, Lectra enables its customers to optimize their creative processes, benefit from the best practices of the profession, and thus reap the full benefits of their technology.

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## ***Magma Broadens Support for TSMC Processes: Quartz DRC and Quartz LVS Rule Decks Now Available for 180 nm and Below***

29 September 2009

[Magma\(R\) Design Automation Inc.](#) announced that Quartz™ DRC and Quartz LVS rule decks are available for TSMC 180-nanometer (nm) process technologies. With this addition, designers can now

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download 40-nm, 65-nm, 90-nm, 130-nm and 180-nm rule decks for Quartz DRC and Quartz LVS from the TSMC-Online(SM) website.

"We have been working with Magma's Quartz DRC and Quartz LVS for advanced process nodes for several years, and have tested their accuracy using the same rigorous testing procedures we use for all DRC and LVS tools," said Tom Quan, deputy director of Design Service Marketing at TSMC. "In response to customer demand, we have now expanded support for Quartz DRC and Quartz LVS to include 180 nm."

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. The Quartz tools are fully compatible with third-party IC implementation flows and can read file formats used by traditional physical verification tools.

"TSMC has been a key foundry partner with Magma, and our mutual customers have used Quartz physical verification solutions to tape out some of the largest, most aggressive designs in the world," said Anirudh Devgan, general manager of Magma's Custom Design Business Unit. "Many ICs are still being implemented in lower-cost 180-nm processes. Now that TSMC has made 180-nm rule decks available, more designers will be able to leverage the speed and accuracy of Quartz DRC and Quartz LVS."

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### ***mental images® Unveils iray Rendering Solution***

30 September 2009

mental images®, an NVIDIA company, introduced iray® – the first fully GPU accelerated, commercially supported, turn-key rendering solution for a wide range of 3D graphics application developers. iray technology leverages NVIDIA® graphics processing units (GPUs) to deliver unbelievably fast photorealism to designers, engineers and consumers.

Life-like graphics can now become interactive as iray rendering technology exploits the massively parallel processing power of the GPU, enabling more convincing 3D visuals, greater levels of creativity and faster decision making. "With iray rendering technology, what used to take product designers, visual effects artists and CAD users hours to render can now happen in a matter of minutes without compromising the quality and detail of the image, said Dr. Jon Peddie, president, Jon Peddie Research. "The advent of iray is changing the face of this industry by increasing the standards in rendering efficiency as we know it."

iray technology speeds the creative process by easily enabling designers to accurately simulate their creations using materials and lighting that relate directly to the physical world experienced every day. Because it's highly scalable, interactive and physically accurate, iray technology allows design and engineering professionals to produce the highest quality final-frame output without the complexity inherent in other solutions.

With tight integration with mental ray® technology – mental images' renderer, which is extensively used in feature film work and within the leading design and creation tools from Autodesk, Dassault Systèmes and Parametric Technology – iray rendering technology will empower millions of users with the ability to change the way they create synthetic images.

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“The combination of iray and NVIDIA GPUs is an astounding achievement, demonstrating our undisputed leadership in computational graphics,” said Dan Vivoli, senior vice president, NVIDIA Professional Solutions Group. “The ease-of-use and remarkable speed of iray brings interactive photorealism easily within the reach of any creator or consumer of 3D content.”

iray rendering technology significantly improves how designers, engineers and other content development professionals work with rendering tools to produce high-quality, photorealistic imagery. Harnessing the power of the GPU and the NVIDIA CUDA™ parallel processing architecture, iray technology progressively refines an image until maximum detail is reached, providing a single process that smoothly combines interactive pre-visualization and final frame rendering. iray technology requires only a small number of intuitive settings relating to the physical world that delivers a “push-button” rendering experience for creating final-frame photo-real images.

“It’s no secret that users want to utilize the power of GPUs for photorealistic rendering,” said Rolf Herken, CEO and CTO, mental images. “With iray, we deliver a solution that not only leverages the GPU in the most efficient manner but also raises the bar for what is defined as photorealism in rendering.”

## **Pricing and Availability**

iray rendering technology will be included with the mental ray 3.8 rendering software starting in late November 2009 at no extra cost to existing customers and OEMs under maintenance. iray technology will also be available as part of RealityServer® 2.4, the upcoming release of the 3D web application services software. A future iray Integrator Edition will allow independent software vendors to include iray technology within their own products, while future integration with the NVIDIA SceniX™ scene management engine will make iray technology easily accessible to all SceniX-based applications. For more information about iray, please visit [www.mentalimages.com/iray](http://www.mentalimages.com/iray).

## **About mental images**

mental images, founded in 1986, is an international leader in providing component and platform software for the creation, manipulation and visualization of 3D content. Its rendering and other technologies are used by the entertainment, computer-aided design, architecture, scientific visualization, and other industries that require sophisticated images primarily as part of their software products and application services. mental images is a wholly-owned subsidiary of NVIDIA Corp. with headquarters in Berlin, Germany, a subsidiary in the United States, mental images, Inc., and a subsidiary in Melbourne, Australia, mental images Pty. mental images has a multinational staff of top qualified engineers exclusively dedicated to basic research and development in the area of 3D graphics and 3D Web Applications and Services technologies. For more information, visit [www.mentalimages.com](http://www.mentalimages.com).



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## ***MSC.Software Announces Strategic Relationship with Phoenix Integration***

28 September 2009

MSC.Software announced its strategic relationship with Phoenix Integration, a leading provider of software for engineering automation, integration, and design optimization. Through this agreement, MSC.Software will market and sell ModelCenter® by Phoenix Integration and its component technology, which quickly integrate and automate widely used CAE applications including Nastran, Patran, Adams, and many others. Ultimately this partnership can result in the seamless integration of

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industry-standard CAE platforms from within the PHX ModelCenter® interface.

“Our relationship formally combines MSC.Software’s finite element analysis, multibody dynamics, and other CAE solutions with Phoenix Integration’s complex design optimization technologies. The combination enables engineers in aerospace & defense, automotive, wind energy, packaged goods, and many other industries to design better, more robust products,” says Ted Pawela, Vice President of Marketing at MSC.Software.

The latest version of Phoenix Integration’s flagship software, PHX ModelCenter® 9.0 is set for general market release later this year. PHX ModelCenter 9.0 is scheduled to provide an easy-to-use visual environment for integration of leading CAE platforms to perform multiple trade-off studies—parametric evaluations, design of experiments (DOE), response surface modeling (RSM), and optimization studies—and find the best design solutions efficiently and effectively. Automation of MSC.Software’s engineering analysis technologies in PHX ModelCenter® enables users to shorten design cycles, reduce design iterations, and expose downstream design problems earlier. The ability to inspect many designs and find then correct weaknesses earlier can save corporations millions of dollars and countless hours.

“We take great pride in our ability to maintain a prominent position in the conceptual design world. Our strategic relationship with MSC.Software represents an important next step of our growth. More and more of our users are looking to incorporate design optimization in their CAE processes. We’re excited to address this need through the collaboration of our technologies,” says Scott Woyak, Ph.D., President and CEO of Phoenix Integration.

Current MSC.Software customers can add design optimization technologies to their product design processes with PHX ModelCenter by contacting [sales@mscsoftware.com](mailto:sales@mscsoftware.com) or [sales@phoenix-int.com](mailto:sales@phoenix-int.com).

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## ***Omnify Software Releases Version 4.5 of Empower PLM Solution***

29 September 2009

**Omnify Software** announced the release of version 4.5 of the Omnify Empower PLM solution. This version includes key customer-driven enhancements and delivers a solution for manufacturers to capture data spanning the entire product development process, from design engineering to the manufacturing floor- for more complete product records.

“Our customers continue to drive us to encompass more product development and manufacturing processes within our system,” said Chuck Cimalore, chief technology officer for Omnify Software. “Empower 4.5 achieves this by providing the capability to manage and streamline the flow of data for all aspects of design, manufacturing, test, and maintenance processes. This version changes the concept of the ‘traditional PLM’ system by extending PLM beyond the management of parts, documents, BOMs and formal Changes.”

Omnify Empower PLM 4.5 was launched at Omnify’s 2009 Customer Conference and the response from customers was exceptional. Eric Krug, vice president of engineering for **Technology Driven Products, Corp. (TDP)** stated, “TDP is very excited about the new Empower PLM 4.5 release.” “Version 4.5 adds the capability to manage BOM routers in great detail and includes significant improvements to the Training Module with on-line comprehension testing, tracking of training requirements, and signoffs by trainers. These features will improve our efficiency in maintaining and documenting information per our ISO 13485 requirements.”

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Key new features include:

•**BOM Routing Module** provides a method for documenting manufacturing, assembly, inspection, and test procedures for any product (Bill of Material) and ties this information directly to the product record. Routing revisions can be triggered from an Engineering Change, enabling automatic restructure of routing information on a product revision or BOM update. This module allows customers to capture all manufacturing steps and procedures and leverages the Bill of Material (BOM) for quantity validation to help minimize inventory issues. Users can capture detailed processing times and costs for analyzing throughput and expenses. By linking to all part data and documentation within Omnify, BOM Routing can display metadata (specifications) and graphical depictions (documents) for each process/step.

•**Enhanced Training Management** offers improved versioning, automation of changes and resetting of training requirements, and training comprehension to gauge user proficiency and training effectiveness. Empower PLM 4.5 now includes a range of training reports and simplifies navigation to easily identify training and user requirements. Integrated with Empower's new email/alerting platform, users are automatically notified of pending and overdue training requirements and events.

•**HelpDesk Module** is a communication and collaboration portal designed to capture and track the discussion trail around Omnify Objects such as Changes/ECOs, Corrective Actions, Projects, etc. This module provides a blogging environment for users to discuss decisions, capture feedback, and provide data to internal and external resources. The HelpDesk includes a "ticketing" feature that provides routing and employs closed-loop strategies to address issues and build knowledge to help improve product design.

"The enhancements to the Training Module in Empower 4.5 have closed the gap on retention of training history and made it easier for highly regulated companies to maintain compliance," stated Curt Kienast, quality manager for [Still River Systems](#). "The addition of the HelpDesk Module is a simple way to manage daily IT issues and frequently asked questions and allows us to capture some of the 'human element' that goes into product decisions."

[Click here](#) to see a free product demonstration of Empower PLM 4.5.

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## ***Open Text Releases New Version of Enterprise Connect***

1 October 2009

Open Text™ Corporation announced the latest release of Open Text Enterprise Connect, a revolutionary user experience for the Open Text ECM Suite. The new version furthers Enterprise Connect as a content service that makes it easy to blend content and processes within users' preferred working environments.

In any enterprise software rollout - from desktop applications to complex business applications - user adoption represents a major hurdle. For example, a study by Sand Hill Group and Neochange found that 70 percent of buyers and providers believe that "effective user adoption" is the primary driver to realize the full business value of enterprise software solutions.

Enterprise Connect eliminates barriers and accelerates delivery of content applications by allowing users to access and interact with business content directly from familiar desktop applications, such as Microsoft Office, Microsoft Outlook and Windows Explorer. Enterprise Connect is one of a set of Open Text Content Services that are the foundation of the Open Text ECM Suite's services-oriented architecture.

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The new release of Enterprise Connect, version 1.5, further simplifies the user experience. Users can take advantage of such functionality as drag and drop from multiple repositories, single sign-on, and metadata classification and federated search. The new version adds an enhanced software development kit, U.S. Department of Defense (DoD)-compliant records management, scalability and performance improvements, and a document viewer supporting over 200 different file formats.

"With organizations continuing to face economic hardship, users are being asked to do more with less and can ill-afford to struggle with learning new user interfaces," said Lubor Ptacek, Vice President of Product Marketing at Open Text. "Enterprise Connect is the ideal way for organizations to simplify the user experience, reduce training costs for new applications and pull together business content from multiple repositories into a logical business-centric view."

## **Enterprise Connect: Key Feature Details:**

- An enhanced software development kit (SDK) makes it easy for customers, third-party developers and system integrators to deliver powerful, intuitive content-centric applications to users. The SDK includes .NET and C++ base classes, plus source documentation, source code and a variety of tools to help organizations quickly and efficiently develop custom solutions and plug-in applications for Enterprise Connect.
- Enterprise Connect can now be used by Open Text eDOCS DM customers as the desktop client to provide DoD 5015.2-compliant records management for eDOCS DM content. To file a document as a record, users select the document from eDOCS DM, and drag and drop it into the appropriate folder in Open Text Records Management.
- In large enterprises with many application environments users often face the need to view documents and files even though they don't have the required native applications installed on their workstations. Enterprise Connect 1.5 helps solve this problem with support for over 200 different file formats that can be opened directly on a view or read-only basis.

Enterprise Connect 1.5 is available now. For more information on Open Text Enterprise Connect, go to: <http://www.opentext.com/2/global/sol-products/sol-pro-docmgmt-collaboration/en terprise-connect-2.htm>.

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***Radan's 2010 R1 Delivers Efficiency, Automation and Ease-Of-Use***

28 September 2009

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Developed to build on the productivity enhancing features introduced in previous versions, the latest release of Planit's Radan sheetmetal CAD/CAM Software, 2010 R1 offers even more.

Whether designing or importing models, Radan is comfortable working with multiple formats of 2D and 3D CAD data.

In this latest release, there are enhancements to the 2D CAD module, including an improved DXF interface and in 3D, the introduction of the latest ACIS Kernel offers greater stability and performance when loading Catia and Parasolid files.

"There is continued pressure on optimal material usage and in this version we have added important functionality to achieve this," states Olaf Körner, Radan Product Manager.

At the core of Radan 2010 R1's nesting is the new Nest Projects enhancement, which accommodates production changes effortlessly by allowing customers to visualise multiple nests, change priorities, and automatically or manually control nesting functions. Radan users will also see a significant increase in material utilisation with these new changes to our nesting software. The new Nest Projects enhancement allows parts to be grouped by a chosen property, such as material type or thickness of a part. Users can choose to use the true shape nesting in addition to rectangular nesting which provides enhanced part control and improved sorting capabilities to achieve optimal sheet material utilisation. This enhancement also allows increased visibility of the nesting performance, provides remnant tracking and creation, and combines it with a simple interface for MRP integration.

New options are also available for tool path optimisation routines. Users have greater control by optimising a specific region rather than the whole sheet. Any repositions are also taken into account when changing the automatic routines, and subroutines are created if necessary.

Radan users can also expect to see more automated functions to control part and part picker movements in the 2010 R1 version. For example, a strategy can be set to define the order in removing the part or scrap operation. A new 'Constrain' option has been added to allow users to control the movements of the part and part picker during unloading functions for their machines resulting in a more controlled and safer environment.

"Achieving the balance between powerful functionality and ease-of-use is an ongoing challenge, but in 2010 R1 I feel we have accomplished that across the product," comments Olaf Körner.

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## ***SYCODE Launches Four High End Proprietary File Import Plug-Ins for AutoCAD***

28 September 2009

SYCODE launched high end file import plug-ins for AutoCAD which give AutoCAD the ability to read 2D data from Pro/ENGINEER, NX, CATIA V4 and CATIA V5 proprietary file formats.

"SYCODE has several file import and export plug-ins to read 2D and 3D data from neutral formats like IGES, STEP, etc.", explains Deelip Menezes, Founder and CEO of SYCODE. "With the release of these file import plug-ins for AutoCAD, SYCODE has entered the league of companies that provide data exchange solutions for high end proprietary formats."

These proprietary 2D drawing file import plug-ins are just the tip of the iceberg. Development of proprietary 3D part/assembly file import and export plug-ins for AutoCAD and other CAD systems is in progress. Some products have reached the final testing stage and will be released shortly. With the

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addition of high end proprietary file format plug-ins to its existing wide range of neutral and open file format plug-ins, SYCODE is hoping to be a major global player in the field of Data Exchange and CAD interoperability.

The four file import plug-ins are:

1. Pro/ENGINEER 2D Import for AutoCAD
2. NX 2D Import for AutoCAD
3. CATIA V4 2D Import for AutoCAD
4. CATIA V5 2D Import for AutoCAD

These plug-ins are designed to work with AutoCAD 2000 through to 2010 (32 and 64 Bit). All the products are priced at \$1495 each and are available as fully functional trials. Each product comes with an installer and detailed documentation in the form of a compiled HTML help file which contains a step-by-step tutorial to get the end user started in the shortest possible time.

## **About SYCODE**

SYCODE develops software solutions for Computer Aided Design (CAD). These solutions are in the form of standalone applications or plug-ins that work inside major CAD systems such as AutoCAD, Autodesk Inventor, Autodesk VIZ, Autodesk 3D Studio MAX, SolidWorks, Solid Edge, Maya, Rhinoceros, Surfcam, etc.

SYCODE also designs, develops and implements customized software solutions for companies worldwide. The customized solution may be a standalone application working closely with the client's existing CAD application or a plug-in to the CAD application.

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## ***3DModelSpace Enables Industrial Suppliers with Online CAD Drawings to reach over 2 Million Design Engineers***

29 September 2009

Catalog Data Solutions Inc. ([CDS](#)), creator of [3DModelSpace.com](#), announced the ability for any company to promote their online CAD models and drawings on 3DModelSpace.

“Any manufacturer or distributor can now ensure that their online CAD drawings can be found on [3DModelSpace](#) under whatever keywords they choose,” said John Major, CEO, Catalog Data Solutions. “Already over 250,000 designers and engineering are accessing [3DModelSpace](#) each month from inside Pro/Engineer Wildfire, Autodesk Manufacturing Community, the ConnectPress Communities and all the general search engines. If you have invested in online CAD models and drawings for your website, you should leverage that investment by ensuring your CAD models are included in [3DModelSpace](#).”

“Suppliers’ drawings and models stay on their own sites – nothing is copied to or uploaded to [3DModelSpace](#) so nothing gets out of date. Simply give [3DModelSpace](#) the links for your CAD drawings and models, and select the keywords under which you want your products to be found.”

## **About 3DModelSpace.com**

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CAD model downloads are a way to lock-in your component products during the design phase and generate new sales when those products are built. [3DModelSpace](#) was launched in 2008 as a search engine for designers and engineers to find CAD models and drawings of the products they need. For manufacturers and distributors [3DModelSpace](#) delivers high quality click-throughs by designers and engineers at highly relevant decision points during their design/product selection process.

3DmodelSpace reaches over 2,000,000 CAD users because it is built directly into Pro/ENGINEER Wildfire and is featured in the Autodesk Manufacturing Community. [3DModelSpace](#) is a CAD model search engine, not a CAD library - it directs designers and engineers to your website where your brand is promoted, leads captured, CAD downloads generated and products sold. To have your CAD models included in 3DModelSpace visit [www.3dmodelspace.com/promote](http://www.3dmodelspace.com/promote)

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## ***Virage Logic Expands SiPro™ Product Portfolio with New Production-Proven Advanced Interface IP Offerings***

29 September 2009

Virage Logic Corporation announced new additions to its recently introduced SiPro™ product line of advanced interface IP. The expanded product line now includes complete standards-based solutions for PCI Express (PCIe) and Mobile Industry Processor Interface (MIPI(R)) as well as a unique multi-protocol IP solution for High-Definition Multimedia Interface (HDMI), Digital Visual Interface (DVI) and DisplayPort interfaces. The Virage Logic SiPro product portfolio is the result of a collaboration with AMD that was announced in January 2009.

"Since entering the functional IP market more than two years ago with its DDR memory controller interface IP offering, Virage Logic has significantly expanded its offering with production-proven PCI Express, MIPI and HDMI/DVI/DisplayPort interface IP products," said Richard Wawrzyniak, senior market analyst, ASIC & SoC for Semico Research. "Virage Logic is already a recognized leading provider of embedded SRAMs, logic libraries, embedded NVMs, DDR, and embedded memory test and repair solutions. With this experience in the physical IP space and its new expanded offering in the functional IP space, the company is well positioned to provide a comprehensive IP portfolio to the global semiconductor market moving to advanced nodes."

"We selected Virage Logic to bring our standards-based IP to market because of their expertise in successfully implementing IP in silicon-proven product form and facilitating easy integration into customers' designs," said Jean Boufarhat, vice president, AMD. "AMD implements these standards-based advanced interface IP solutions in our graphics and application processors that are deployed for use in mass markets."

"With production volume exceeding 100 Million units in total silicon shipments over multiple process nodes and products, the SiPro interface IP product line enables customers to proceed with confidence to first silicon success and yield optimization," said Kamalesh Ruparel, vice president and general manager of Virage Logic's ASIP Solutions Group. "The standards-based SiPro™ PCI Express, SiPro™ MIPI and SiPro™ HDMI/DVI/DisplayPort products offer robust high performance and low power solutions for the most demanding System-on-Chip (SoC) and ASIC designs."

Extending Virage Logic's recently introduced SiPro PCI Express PHY offering, the new PCI Express Root Complex and End-Point controllers deliver a complete PCI Express standard-based solution. When bundled with the PCI Express controller, the high-speed, high-precision PHY technology, capable of

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operating up to 5 Gbps, offers an easily integrated, complete, low-risk standards-based solution.

The SiPro MIPI DSI (display serial interface), CSI (camera serial interface) controllers and D-PHY IP are system-validated with camera and display device ICs to provide seamless interoperability for evolving mobile electronics applications. The SiPro MIPI IP solutions, used in a host of SoC mobile applications, are production-proven on the advanced 65nm LP process node. The Universal Multimedia IP solution supporting dual-mode HDMI and DisplayPort interfaces is available for the advanced 40nm G process. This solution enables a "future-proof design" by offering the flexibility of both DisplayPort and HDMI capabilities to help alleviate concerns over the decision to select one option over the other. The Universal HDMI/DVI/DisplayPort IP approach allows the same design to be easily targeted to either of the two standards, enabling customers to make decisions late in the design cycle for maximum flexibility.

## **About Virage Logic's SiPro Product Line**

Offering complete solutions with Physical Layers (PHYs), controllers, I/Os, software application programming interfaces (APIs) and flexible verification options, Virage Logic's SiPro product portfolio is ideal for silicon design architects who require production-proven, standards-based interface IP that minimizes area and power consumption, yet has all the necessary certification and verification tools, all available from a single supplier.

PCI Express standards are typically used in high performance applications delivering large amounts of data from point-to-point, including storage, servers, networking, communications, high-end video applications and add-on PC cards. Designed to increase data rates while reducing power consumption and pin count, MIPI interfaces are commonly used in smart phones, mobile Internet devices (MIDs), cameras and mobile application processing and peripherals. HDMI, DVI and DisplayPort are audio/video interfaces for transmitting uncompressed digital data and are ideal for consumer audio/video electronics, mobile devices, gaming consoles, multimedia and broadcasting applications.

## **Availability**

Virage Logic's SiPro PCI Express Gen1 / Gen2 PHY is available now on the 40nm process. The PCI Express End-Point and Root-Complex controllers will be available Q4 2009 and are technology independent.

The SiPro MIPI CSI Rx D-PHY and SiPro MIPI DSI Tx D-PHY will be available Q4 2009 on the 65nm LP process. The SiPro MIPI CSI Rx controller and SiPro MIPI DSI Tx controller will be available in Q4 2009 and they are technology independent.

The SiPro HDMI/DVI/DisplayPort PHY will be available on the 40nm G process and the SiPro HDMI/DVI/DisplayPort controller (technology independent) will be available in Q4 2009.

For more information about Virage Logic's SiPro product line, visit: <http://www.viragelogic.com/SiPro>. For information on licensing terms and pricing, please contact your local Virage Logic sales representative.

Virage Logic will be demonstrating its new SiPro product line at the GSA Conference on October 1, 2009, at the Santa Clara Convention Center in booth #802. For further information or to register for the conference, visit <http://www.gsaglobal.org/expo/2009/index.aspx>.

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## ***VMAP by TechPassion Now Part of Altair's HyperWorks Enabled Community***

29 September 2009

Altair (<http://www.altair.com>) announced the addition to its HyperWorks Enabled Community (HWEC) of VMAP from [TechPassion](http://www.techpassion.com), an engineering product company building the next generation software tools used by product design teams. HyperWorks users can now download and use the latest version of VMAP at no incremental cost using their existing HyperWorks software license system on the HWEC website at <http://www.hyperworkscommunity.com>. This brings the total number of applications available under the HyperWorks platform to 53 including 25 third-party software applications such as VMAP.

"TechPassion is pleased to join Altair's HyperWorks Enabled Community. We look forward to expanding the adoption of VMAP into the Altair customer base through this creative and unique partnership model," said Dhanushkodi Mariappan, CEO of TechPassion. "Altair's RADIOSS solver has become the market leading analysis software in the Noise, Vibration and Harshness (NVH) sector. VMAP is a complimentary solution which allows customers to create better products by integrating their testing and analysis processes."

TechPassion's VMAP bridges the gap between virtual prototyping and physical testing and experimentation in the product design cycle. It is used by customers to perform vibration testing and correlation of simulation and experimental results. VMAP significantly improves productivity of product design teams by not only cutting costs and development time but also intangibles associated with inaccuracies in design. The TechPassion solution also includes an integration with Altair's popular HyperMesh application. This tight integration provides transparent data exchanges and allows Altair customers to interact with VMAP from within the HyperMesh environment they are familiar with.

To date, over 200 companies worldwide have joined the HyperWorks Enabled Community, maximizing their current investment in HyperWorks licenses by giving their engineers and designers access to a growing pool of leading technology solutions.

HyperWorks is a suite of enterprise analytic applications that includes statistical, database, visualization and simulation software to help companies make better business decisions. Its patented HyperWorks Units licensing technology allows users to transparently share software licenses globally across a broad suite of applications.

"Altair is excited about this new partnership, it provides our customers a flexible, easy to use and cost effective solution for managing their vibration testing processes and correlating their test results with their computer simulations," said Michael Humphrey, Vice President of Altair's Global Partner Programs. "The integration between VMAP and HyperMesh is a significant differentiator and demonstrates TechPassion's commitment to creating software which is easy for customers to use."

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## ***Zuken Takes Systems and PCB Design to the Next Level with CR-5000 2009***

1 October 2009

Zuken has announced the latest version of the advanced modular design suite for electronics systems and PCBs, CR-5000 2009. This includes the official American and European launch of CR-5000 Design Gateway that unlocks the future world of advanced enterprise-wide design for cutting-edge product development; major design quality improvements for CR-5000 Board Designer for layout design; plus

increased competitive capabilities within high-speed design and verification environment CR-5000 Lightning.

## **The Future with CR-5000 Design Gateway**

CR-5000 Design Gateway is Zuken's next generation circuit design creation packaging which is set to be the collaborating force between board level design and hardware design, bringing the two disciplines together. It also opens up scope for advanced product lifecycle management, becoming more and more integral to maintaining the competitive position of companies.

For the project manager Design Gateway provides ultimate control in the system level design process, through the improvement of quality, prediction and reduction of risks, along with the ability to capture project costs up front. For the engineering manager it provides a conceptual design creation environment to boost productivity and improve efficiency within the CR-5000 environment and through native integration of third party tools.

## **Stepping up Design Quality with CR-5000 Board Designer**

The version 12.0 of CR-5000 Board Designer will take users to another level in progressing design quality in the layout process. This has been achieved through enhanced editing functionality, collaboration and verification within the CR-5000 environment and selected third party solutions. It features capabilities for dealing with the latest chipsets with larger memories and complex space issues and advanced capabilities for verification to eliminate inconsistencies and detection of errors.

## **Low Effort High-Speed Design with CR-5000 Lightning**

Ease of use and advanced capabilities for cutting edge high-speed designs has been the focus of development for version 12.0 of the high-speed design and verification environment CR-5000 Lightning. Highlights include the introduction of automatic 'escape routing' and 'smart fan-out' to simplify the routing process, along with support for S-parameter models, easy-to-use parameter sweep and waveform comparison functionality, along with improved error resolution capabilities for the latest high-speed boards.

## **Deeper Integration with CR-5000 System Designer**

Zuken continues its commitment to CR-5000 System Designer and has focused effort on developing even deeper integration with other solutions in the CR-5000 design environment that help to improve product quality and communication with other electronic design disciplines while saving Design Engineers time.

All the latest modules within the CR-5000 environment are available from Autumn.

For more information about CR-5000 visit <http://www.zuken.com/cr-5000>.

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