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## CIMdata News

### *CIMdata Presents Two Trends and Best Practices Sessions at Eurosatory 2010*

May 2010

During the International [Eurosatory 2010](#) Tradeshow, "Harmonized Collaboration across the Product Lifecycle and Enterprise", June 14-18 2010 at Paris Nord Villepinte, France, you are invited to join CIMdata for these informative presentations:

**Thursday, June 17th, 10H00 - (Systems Engineering and Mechatronics: Trends & Best Practices)**

**Friday, June 18th, 10H00 - (Protecting IP Trends & Best Practices)**

Space is limited so [pre-book your meeting](#) now with one of our PLM experts.

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## Company News

### ***Aras Announces 2010 Community Award Winners are Lear Corporation, MiTek and Prodeos***

26 May 2010

[Aras](#)® announced the recipients of the 2010 Collaborate & Contribute awards for contributions to the Aras Community Network. The 2010 awards were presented May 10th at the International Aras Community Event and the winners are:

- Lear Corporation – For contributions relating to Accelerated WAN Performance
- Prodeos – For development of a UML Editor for Aras Innovator
- MiTek Corporation – For outstanding contributions to the Aras Community Forums.

Aras's annual Collaborate & Contribute awards recognize the significance, popularity and impact of contributions to Aras Innovator's Enterprise Open Source software solutions as well as the commitment and spirit of participation in the Aras Community Network. Past winners include Motorola, Freudenberg, Hayes Lemmerz, FNGP, Ogihara and Broadway Consulting Services.

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### ***Cadac Organice Launches New and Updated Website***

25 May 2010

Cadac Organice BV has introduced a new and updated website.

The new and updated [Cadac Organice](#) website is easier for visitors to navigate. A clear navigation menu provides information about products and solutions, and offers tailored information for various industries. Both customers and partners will find a specific section tailored to their needs and providing them the relevant information about the Cadac Organice Product Suite.

Visitors looking for more detailed information about the Cadac Organice Product Suite can directly download brochures, product sheets, case studies, reference cases and white papers from the download section. The new website also includes a "try & buy" section, where visitors are able to download the various Cadac Organice modules to try those 30 days for free and buy software directly online, using state of the art e-commerce tools.

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### ***Former Tata Technologies Engineering Chief Joins Altair ProductDesign to Lead Development of a New Electric Vehicle***

26 May 2010

Altair Engineering, Inc. announced that Martin Jones has joined its Altair ProductDesign (PD) consultancy division to lead the full development of an innovative new urban electric vehicle (EV).

Jones joins Altair from Tata Technologies where he was responsible for leading vehicle development programs. He has a broad range of experience in the automotive industry at a senior level having held positions at construction vehicle manufacturer, JCB, where he served as Operations Engineering Director responsible for all new product development activities; IBM UK where he was Director

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responsible for the development, global sales and application of Product Lifecycle Management; and Rover Group where he rose through the organization from an apprentice to Product Director.

Jones' new role as European Chief Engineer is the result of Altair PD being selected as a development partner for a new luxury electric urban vehicle for a leading automotive company. Altair PD is responsible for vehicle development from concept to production, and it will draw upon its global engineering expertise and use of its proven simulation-driven design process to deliver the program.

"I have held some challenging management positions and privileged senior engineering leadership roles throughout my career," said Martin Jones, European Chief Engineer, Altair PD. "The difference at Altair PD to any of my previous roles is the immediate availability of highly skilled, innovative engineers that are equipped with 'best in class' leading edged simulation tools and techniques they need to do the job properly - a real luxury and the envy of a lot of vehicle chief engineers I know. However, this is not just a luxury, it is a necessity. To develop an EV in today's competitive market you need to be fast with innovation, accurate with your analysis and precise with your design release. Altair has all of this."

Altair PD was chosen as a development partner for the innovative new vehicle, thanks to its past experience in full vehicle development coupled with the company's geographical spread and access to engineering experts from across the globe.

## About Altair ProductDesign

[Altair ProductDesign](#) is a global, multi-disciplinary product development consultancy of more than 500 designers, engineers, scientists, and creative thinkers. As a wholly owned subsidiary of Altair Engineering, Inc. (<http://www.altair.com>), this organization is best known for its leadership in combining its engineering expertise with Computer Aided Engineering (CAE) technology to deliver innovation, automate processes. Altair ProductDesign firmly advocates a user-centered, team-based design approach, and utilizes proprietary simulation and optimization technologies (i.e. Altair HyperWorks) to help clients bring innovative, profitable products to market faster...

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## *IFS & INSIRIO Launch Partnership in Italy*

28 May 2010

IFS has entered into a partnership agreement with the Italian systems integrator [Insirio S.p.A.](#) Insirio offers IT solutions and services for medium-sized and large companies as well as for the public sector. Insirio has a total of 250 employees in its three offices in Milan, Rome and Messina. For IFS, the decisive reasons for entering into the partnership were Insirio's good reputation and industry focus in the Italian market. The partnership targets the oil & gas and engineering & construction industries and takes effect immediately.

Insirio is an established systems integrator with more than 30 years of experience in the IT services sector.

Insirio's size, geographical distribution and organizational structure combined with its industry-specific technology and business competencies make it an ideal partner for IFS. Insirio has deep knowledge of, and outstanding expertise in, industries where projects account for a large portion of the overall business. Insirio is an Oracle Partner for the project and portfolio management solution Primavera, for example.

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Wilfried Gschneidinger, Managing Director IFS Central Europe, explained the new partnership as follows, “Insirio provides us with a broad variety of perspectives and attractive potential in our target markets because the company has established an excellent network within the Engineering, Procurement, Construction and Installation (EPCI) environment, one of our target industries. Insirio also has profound know-how about enterprises that are highly project-oriented—another perfect match for our business strategies.”

Graziano Corazza, Managing Director at Insirio, said, “We are looking forward to successful cooperation with IFS. The industry-specific solutions of IFS fit perfectly into our portfolio. We see particularly good market opportunities in the project-oriented sector, which we now can jointly exploit. In this promising partnership we expect major benefits from the global reach of IFS and its products.”

Insirio’s portfolio includes global services in the integration of new applications into existing IT infrastructures. It focuses on enterprise application integration, data warehousing, business intelligence, content management & collaboration systems (Web 2.0), project portfolio management, mobile, RFID and sensor networks, open source/SOA, grid & cloud computing, and infrastructure operation and maintenance. Within the area of IT infrastructure management, Insirio offers architectural design, systems consulting as well as installation and management of server infrastructures.

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## ***Mastercam University is the Perfect Solution for Learning Mastercam***

24 May 2010

Mastercam University is an online learning tool created by CNC Software, Inc., that provides 24/7 access to Mastercam training materials. Designed by an experienced Mastercam trainer, it is intended to be used by both students and experienced professionals alike.

Mastercam University is online video training that enables one to learn at his/her own pace, own time, and from experienced Mastercam trainers. Use these new online classes to get up-to-speed, keep skills sharp, or even prepare for official Mastercam Certification. Mastercam University is open to anyone with internet access, and can be purchased through Authorized Mastercam Resellers.

In this application-based training, one learns Mastercam by designing and programming toolpaths on real industrial parts. Important concepts are covered that show you how to program more efficiently using best practices.

Classes currently offered are:

- Mill/Design and Toolpaths
- Advanced Mill/Design and Toolpaths
- Lathe/Design and Toolpaths
- Mastercam® for SolidWorks®
- Principals for Machining
- Instructor Certification
- Certification Course
- Maintenance Course (free to Maintenance customers)

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- Mastercam Transition: V9 to X5 (free to customers that update from V9)

Their latest offering is a brand new class called Mastercam Transition: V9 to X5 that is the perfect class to get up-to-speed if you are still programming with V9.

For more information on Mastercam University, please visit <http://www.mastercamu.com> and <http://www.mastercam.com/Support/Training/MastercamU/Default.aspx>.

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## ***PTC Chief Financial Officer Resigns Effective November 15, 2010***

27 May 2010

PTC announced that Neil Moses, the company's Chief Financial Officer, has resigned effective November 15, 2010. The company has begun a CFO search.

Moses joined PTC in 2003 as Executive Vice President and Chief Financial Officer. Since Moses joined PTC, the company has strengthened its operating model and balance sheet significantly, including a \$130 million improvement in GAAP net income.

"Neil has been a valued member of the leadership team for the last seven years. During that time PTC has grown its revenue to approximately \$1 billion and driven significant improvements in profitability," said C. Richard Harrison, Chairman and CEO.

"PTC is a terrific company with a strong future," said Moses. "It's been a privilege to be part of a management team that has positioned the company into one of the world's leading product lifecycle management (PLM) providers. I intend to help facilitate an orderly transition process over the coming months."

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## ***PTC Recognized As China's #1 PDM Solution Supplier by Leading Industry Analyst Firm***

27 May 2010

PTC announced that it has been ranked top performer in several key categories within the PLM industry in the recent "[China Product Lifecycle Management \(PLM\) Report](#), April 2010" by leading management consulting and technology research firm, CIMdata, Inc. Based on rich data and in-depth analysis of the PLM market in China, PTC is recognized as the leading PLM, PDM and design-focused MCAD solution provider in China based on 2009 direct revenue. PTC was also identified as a leading provider of PLM solutions for the Aerospace & Defense and High-Tech industries.

The CIMdata report recognizes PTC as the top PLM supplier by direct revenue in China with its direct PLM revenues of \$63million USD in 2009 and as the supplier with the largest share by revenue (27.4%) of the PDM market segment in 2009. Furthermore, in the design-focused MCAD segment, PTC is ranked No.1 with a 26.9% share by revenue for 2009.

"As evident by its number one direct revenue position in the China PLM market, PTC's strong showing in this critical region demonstrates and validates its core technologies," said Peter Bilello, CIMdata's Vice President. Mr. Bilello went on to state that "PTC is one of only a select few international PLM solution suppliers that have a well established China-based organization. This should continue to prove to be beneficial to PTC and its China-based customers for years to come."

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CIMdata Director of Research Ken Amann stated, "PTC has been developing its business in China for many years and has one of the most widely used product suites. They are a leading supplier of solutions for the Aerospace and Defense and High-Tech industries in China, and are growing their business in Automotive and Industrial Equipment."

"We are glad to be recognized by CIMdata as China's leading PLM supplier," said Liu Tonglong, senior vice president, PTC, China, "PTC has consistently provided China customers with complete product lifecycle management solutions. We consider the ranking strong recognition of PTC's contribution to China's manufacturing industry and our China customers. PTC is committed to continuously developing our technology to help drive innovation in China's manufacturing industry."

The CIMdata report provides detailed information and in-depth analysis of China's "Mainstream PLM" market, which continues to outpace the growth of the global PLM market. CIMdata defines mainstream PLM as the subsectors of the PLM market that have traditionally been addressed by the major PLM solution suppliers. Some of these subsectors include collaborative Product Definition management (cPDm), mechanical computer aided design (CAD), engineering simulation and analysis, and digital manufacturing. The report additionally shares insight into trends and PLM market dynamics within the region along with the revenue performance of the leading PLM solution suppliers operating within China.

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## ***solidThinking Signs Holland Engineering Consultants as Its Latest European Value-Added Reseller***

27 May 2010

solidThinking, Inc. (<http://www.solidthinking.com/>) has increased its availability in Europe by adding Holland Engineering Consultants (HEC) (<http://www.hecbv.nl/>) to its growing value-added reseller (VAR) community. HEC will market, sell and support solidThinking's 3D NURBS-based concept-design software throughout the Benelux region of Belgium, The Netherlands and Luxembourg. This agreement is solidThinking's latest international VAR partnership to increase the software's adoption across industrial design/styling markets globally.

To acquaint HEC clients with the latest features of solidThinking, the companies will host a free event on June 2, 2010, for current and prospective users. The event will include workshops, demonstrations and hands-on applications of solidThinking. The workshops will be held at HEC headquarters in Nieuwegein, The Netherlands. For more information, visit the solidThinking events calendar at <http://www.solidthinking.com/forms/eventlist.aspx>

"Our vision is to provide clients with a competitive advantage during product development by helping them implement the right tools to create better designs in less time and at a lower cost," said Daan Hulst, general sales manager, Holland Engineering Consultants. "Our knowledge of the CAD, CAM, CAE and PLM markets, combined with partners like solidThinking, will help designers and engineers develop products in less time and achieve greater assurance of product performance. solidThinking software is a perfect addition to our service offerings through its intuitive and user-centric features, flexibility and high-quality visualization capabilities."

Through its flexible, yet powerful, implementation of NURBS (non-uniform rational b-splines) modeling, solidThinking's 3D conceptual-design software encourages innovation in industrial designers

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who want the highest precision for any analytic or freeform shape. The software offers a ConstructionTree™ technology that allows designers to experiment in real time, without starting from scratch, when they change their minds. solidThinking produces high-quality, real-time photorealistic imaging for realistic design visualization.

With solidThinking Inspired™, users can run morphogenesis™ form-generation technology to grow efficient shapes in response to environmental forces and pressures. Morphogenesis draws on the principles of biomimicry to allow designers and architects to use form generation to explore and experiment with design concepts.

"Resellers continue to realize the value they can bring to clients by adding 3D modeling design technology like solidThinking to their product offerings to gain flexible and unique design options that are complementary to their existing tools," said Jim Hassberger, vice president of business development and customer relations for solidThinking. "By partnering with HEC, we further expand our market presence in the region and position solidThinking for growth throughout Europe and other international markets. We look forward to working with HEC to help its clients experience solidThinking's benefits."

## **About Holland Engineering Consultants (<http://www.hecbv.nl/>)**

Founded in 1982 as a center for design optimization, HEC provides clients access to advanced software tools for concept design, simulation, engineering and product development as well as associated consulting and support services including training, supervision, maintenance and implementation. Based in Nieuwegein, The Netherlands, HEC works with a variety of industries, including automotive, precision engineering, electronics, oil/chemical and general engineering.

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## ***TSMC and Co-Development Partners Mentor and Synopsys Donate iDRC to Si2***

27 May 2010

Silicon Integration Initiative (Si2) announced that TSMC has donated iDRC, a vendor-neutral language for describing IC design rules, for consideration as an open industry standard. iDRC is an open specification that makes it possible for TSMC and its customers to create physical verification design kits that allow easier support of physical verification products from different EDA vendors. TSMC has donated the iDRC specification to Si2, the organization of industry-leading silicon systems and EDA companies, on behalf of TSMC and its co-development partners, Mentor and Synopsys.

“The iDRC specification benefits our customers by accelerating the delivery of physical verification decks from TSMC, and once adopted as a standard, from other foundries as well”

This donation culminates over two years of collaborative effort by the three companies to create an EDA vendor independent DRC mechanism that will enable faster adoption of vendor optimizations. To further support this effort, Mentor will be providing an architectural manual and sample implementations. Synopsys has agreed to grant a RAND license for a related patent to Si2. Mentor and Synopsys will also be members of the Si2 committees that will help drive the adoption of this standard.

“The iDRC specification benefits our customers by accelerating the delivery of physical verification decks from TSMC, and once adopted as a standard, from other foundries as well,” said ST Juang, senior director of EDA and design service marketing at TSMC. “iDRC also enables users to more easily create

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design rules for new requirements or special situations, while allowing individual EDA companies to implement rules in a manner that is optimized for their specific software. We've worked closely with Mentor and Synopsys to develop and validate iDRC architecture and decks for our most advanced processes. It was always our intent to donate this capability to the industry, and now that the concept is validated we are pleased to make this donation to Si2."

"Our collaboration with TSMC on the definition of iDRC helps our mutual customers to obtain optimized design kits faster. By segmenting out process definitions from the software-specific implementations, iDRC simplifies the adoption of performance optimizations, allowing our joint customers to realize better performance from the Calibre platform," said Joseph Sawicki, vice president and general manager for the Design-to-Silicon division at Mentor Graphics. "The donation of iDRC to the industry is another validation of Mentor's support for open industry standards."

"The collaboration with TSMC to transition from a vendor-specific to an iDRC-based interoperable specification will ensure timely distribution of optimized technology files. Function-based, vendor-independent DRC implementation eliminates qualification and consistency barriers, clearing the way to efficiently bring In-Design physical verification with IC Validator to our common customers," said Antun Domic, senior vice president and general manager of Synopsys' Implementation Group. "In support of open industry standards, we endorse this donation of iDRC to Si2."

"We are very excited about the donation of iDRC and the associated patent license from Synopsys for consideration as part of OpenDFM, not only as a specification, but also as a proven production solution," said Steven Schulz, president and CEO of [Si2](#). "iDRC is consistent with the Si2 Design for Manufacturing Coalition's (DFMC) OpenDFM vision, and is a great example of meeting industry challenges with open solutions developed through the collaboration of Si2's member companies. Si2 will be reviewing the donation with Si2 members with the goal of formal acceptance within 30 days."

## About iDRC

iDRC was initiated by TSMC and developed as a joint project with Mentor Graphics and Synopsys. The goal of the iDRC effort was to separate the language for creating physical verification decks into two layers—an upper rule definition layer that captures the requirements embodied in a manufacturing process design rule manual, and a lower implementation layer that defines the procedures used to perform the checks, which are specific to each physical verification tool. Design rules expressed in iDRC are tool independent, but the underlying implementation can be optimized by the vendors to deliver the best accuracy and performance, without requiring end users to have specialized knowledge of tool performance tuning. iDRC is based on the open source TCL language, extended with specialized functions for IC design rule checking.

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## Events News

### *Delcam Announces 38 Partners for MACH Team*

26 May 2010

As befits its position as the UK's largest developer of machining software, Delcam will be working with more manufacturing partners than any other CAD/CAM supplier at the MACH exhibition to be held at the NEC, Birmingham, from 7th to 11th June. The company will be promoting its CAM and inspection

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software in association with 38 partners, including many of the world's leading providers of machine tools, cutting tools and inspection equipment.

The current list of partners is as follows: -

600 Group	4310
Agie Charmilles	5331
AMRC	4070
CG Tech	5168
Citizen	5450
CMS Group	5490
DMG	5410
Doosan	5430
Dormer	5248
Emmaco	5250
EuroPAC	5558
Faro	5610
Floyd Automatic Tooling	5281
Forton - Huron	5290
Haas Automation	5210
Hardinge	5477
Hexagon	5540
Hurco	5458
IndieCAM	5399
Iscar Tools	5171b
Makino	5228
Matsuura	5230
Mills	5430
Mikron	5331
Miyano	5450
Mori Seiki	5310
NCMT	5228
Nikken	5278
Phase Vision	5542
Renishaw	5439
Sandvik Coromant UK	5087
SGS Carbide Tool	4118
Star	5250
Tornos	5128
Whitehouse - OKK	5197
XYZ Machine Tools	5460, 5185
Yamazaki Mazak	5348
YMT	5280

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“Companies looking to invest in CAM software are often worried whether the toolpaths generated will work as well on the machine tool as they do on the computer,” commented Mr. Dickin. “Thanks to our partners at MACH, we will be able to demonstrate the speed and quality that is possible with our software on a wide range of machines.”

[Delcam](#) has enjoyed a successful start to 2010, which is expected to receive a further boost at MACH. The company was confirmed by US analysts [CIMdata](#) to have completed a decade as the world’s leading CAM specialist and received its third Queen’s Award for Enterprise in the Innovation category for its range of dental CAD/CAM software.

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## ***Delcam to Launch High-Accuracy Dental CAD/CAM in Rimini***

24 May 2010

[Delcam](#) will launch new versions of its DentCAD and DentMILL software for the design and manufacture of dental restorations at the Amici di Brugg exhibition to be held in Rimini, Italy, from 27th to 29th May. The company believes that these latest programs offer higher levels of consistency and accuracy than other dental CAD/CAM systems. As a result, they can minimise, or even eliminate, manual adjustment of the restoration as it is being fitted, and produce restorations that give improved comfort and that are more durable.

As well as improving accuracy, Delcam has increased the range of restorations that can be designed in DentCAD. The new version offers automated tools for the design of inlays and onlays, and for the creation of dental bars, customised abutments, collars and pressed crowns, in addition to the previous options for copings, crowns and bridge frameworks.

In the new release, extra analysis tools have been added to DentCAD to ensure that the designs can be manufactured efficiently and will perform satisfactorily. For example, undercut shading can be used to identify areas where five-axis machining might be needed so adding to manufacturing costs, while thickness shading will highlight any areas in the design that might be too thin to give a durable restoration or that might chip or crack during manufacture.

Improvements to DentMILL reflect the recent enhancements to Delcam’s PowerMILL engineering CAM system on which it is based. These include support for the latest hardware developments, such as 64-bit operation, multi-threading and background processing that can significantly reduce calculation times.

A number of improvements have been made to give smoother toolpaths, in particular for five-axis machining. These new techniques not only give a more accurate surface finish on the restoration but also protect the cutters and the machine tool by minimising the stresses during machining. In addition, the range of five-axis machining options has been increased with the option to undertake constant-Z undercut machining.

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## ***Delcam to Host Free Workshops on Latest Developments in CAM***

25 May 2010

Delcam will host a series of free workshops on the latest developments in CAM technology at its

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Birmingham headquarters on Thursday 8th July. The day will feature four sessions on five-axis machining, feature-based programming, integrated CAM for SolidWorks and software for metrology. Each one-hour-long presentation will be repeated four times during the day, giving all delegates the opportunity to custom-make their itinerary to fit their preferred interests and timings.

The day will be focused primarily on the many new contacts that Delcam expects to make during the MACH exhibition to be held at the NEC, Birmingham, from 7th to 11th June. However, it will be open to any company interested in increasing their productivity, improving their quality or shortening their lead times by upgrading to Delcam software.

“The 2008 MACH was the busiest UK exhibition that Delcam had attended for many years and we are expecting a similar level of interest at this year’s show,” explained Delcam’s Marketing Manager, Peter Dickin. “This means that, unfortunately, we probably won’t have the time to go into detailed demonstrations with the many visitors to our stand. By organising this CAM day shortly after the exhibition, we can give companies the opportunity to learn more about the benefits of our programs. They will also be able to visit Delcam’s headquarters and learn about the unparalleled support that we can give to our customers.”

The workshops for the day will be as follows:

## **CAM for five-axis machining**

Five-axis machining offers many opportunities to increase productivity and improve quality. Suitable equipment is now more affordable than ever, while CAM systems have become more powerful and easier to use. This session will provide an introduction to the programming of five-axis machines with Delcam’s PowerMILL CAM system. It will include details on a new PowerMILL module for the programming of robots for machining.

## **Feature-based programming**

This FeatureCAM presentation will show how its highly-automated, knowledge-based programming, with machining strategies, tooling, and feeds and speeds set by the software, makes the system ideal for those with little CAM experience or for occasional users.

## **Integrated CAM for SolidWorks**

[Delcam](#) for SolidWorks is a new CAM system that is fully integrated into the SolidWorks environment so that the program looks and behaves like SolidWorks. The software offers full associativity so that any changes in the CAD model are reflected automatically in the toolpaths. This session will show how this integration makes access to Delcam’s powerful machining strategies easier than ever for SolidWorks users.

## **Software for metrology**

This presentation will cover Delcam’s software for metrology, in particular the PowerINSPECT program, the world’s leading hardware-independent inspection system for comparison of parts, tooling and prototypes against CAD data on all types of inspection device. It will also show how machining and inspection can be integrated more closely, in developments like electronic fixturing and on-machine verification, to give more efficient manufacturing and higher-quality results.

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## *Delcam to Promote Adaptive Blade Repair at Turbo Expo*

28 May 2010

[Delcam](#) will demonstrate the use of its software for the adaptive repair of turbine blades at the ASME Turbo Expo to be held in Glasgow from 15th to 17th June. The technique is based on Delcam's combination of expertise in software for both machining and inspection. This has been built up over many years of development of PowerMILL, leading CAM system for high-speed and five-axis machining, and PowerINSPECT, leading hardware-independent inspection software.

Adaptive machining allows successful production and repair of the most complex components by using in-process measurement to close the information gaps in the chain of operations. The most common applications are those where the exact position of a heavy workpiece on the machine tool bed is unknown or when the precise shape of the starting material can vary, for example, when finish machining castings, forgings or large, flexible composite components.

The most challenging adaptive machining operations are those where the precise final shape of the component is unknown. This is needed when repairing turbine blades that have been distorted by the high temperatures in aircraft engines or other components that have been changed from their nominal CAD shape during service.

The initial stage of the process is to measure the blade with the Renishaw probe to determine the extent of its deviation from the nominal CAD data. Then, the morphing functionality in Delcam's PowerSHAPE hybrid modeller can be used to bring the CAD model into line with the actual geometry. The probe is also used to determine the extent of the weld that needs to be machined away. With these measurements, toolpaths can be generated within PowerMILL that will remove the excess weld without violating the blade shape and without excessive air cutting. A final inspection can then be carried out using Delcam's On-Machine Verification software to ensure that a smooth transition has been created between the original blade surface and the repaired area.

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## *DFMPro for Pro/ENGINEER Demonstration at PTC World 2010*

27 May 2010

[Geometric](#) will demonstrate the latest version of DFMPro for Pro/ENGINEER, at **Booth # 307** at the **PTC User/World Event 2010**, to be held at Rosen Shingle Creek Hotel, Orlando, FL, USA from 6 - 9 June, 2010.

"DFMPro is proving to be an effective tool in reducing ECOs / ECNs, thereby shortening the overall product realization cost. A number of large global companies are interested in the manufacturability analysis capability of DFMPro; and we are working closely with them to introduce the solution as part of their design process", says Bhaskar Sinha, Senior Product Manager, DFMPro.

During the event, Geometric's technical experts will demonstrate the new Design for Injection Molding module. This module is packaged with DFM rules derived from well-known, industry-accepted, best known practices. The new module enables users to validate the designs to check for uniform wall thickness, recommended rib parameters, appropriate draft angles on core and cavity surfaces, undercuts, thin steel conditions on mold, and many other common rules.

For further details about the new version, and a free 15-day trial version, please visit:

<http://www.dfmpro.com>

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***ESI is a Golden Sponsor of the 2010 IDDRG Conference in Graz, Austria; will speak about recent improvements in Sheet Metal Forming technology***

27 May 2010

The International Deep Drawing Research Group (IDDRG) Conference is the annual international meeting place for [Sheet Metal Forming](#) experts to present the latest relevant and challenging topics, and to discuss important technical issues. The [2010 IDDRG Conference](#) will be held May 31 to June 02, 2010 at the Old University in Graz, Austria.

[ESI](#) sponsors the [2010 IDDRG Conference](#) at a Gold level for the first time as it is considered as the major event for the [Sheet Metal Forming](#) community. [ESI](#) will help address the conference scope – the processing of ultra high strength steels and advanced light weight materials – with one presentation providing engineers with knowledge and insights on improving the overall quality of die compensation.

Entitled ‘**Improvements in springback calculation and die compensation taking into account buckling, bottoming and shape control**’, the paper will be presented by Martin Skrikerud, [ESI](#)’s Die Face Design & Sheet Metal Forming Product Marketing Manager, on June 1 at 4.30 pm in the Auditorium II during the ‘*Tools 4*’ session – C-Tool4-3.

In recent years, springback calculation and the compensation of the tool shape has become standard practice, allowing shorter prototyping times and lowering the risk of poor die design. However, in some cases the results from simulation have not been as accurate as expected, leading to problems and delays. Reasons might be found in the phenomena of buckling or twisting during springback. These modes can in fact have a significant effect on the total springback. Therefore, an additional buckling analysis during springback calculation can help improve the overall result of the springback simulation. Another possible reason for deviations between simulation and reality might be the bottoming effect. At the very end of the process, the amount of press force applied to the blank can have a significant influence on the amount of springback.

The presentation will look into the problem of instability during springback and bottoming effect as well as how to improve the surface quality of a successful die compensation by introducing “shape control” – allowing the management of shape control during compensation, particularly important for external panels with design constraints.

Delegates will also be able to find out more information about [ESI](#)’s [Sheet Metal Forming](#) Suite by visiting [ESI](#)’s booth in the exhibition area.

For more immediate information, please visit:

<http://www.esi-group.com/products/metal-forming>

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## *ESI Will Speak at the World Automotive Congress FISITA 2010 in Budapest, Hungary*

26 May 2010

[FISITA](#), biennial World Automotive Congress, is the international meeting place for automotive experts to present the latest technologies and to share information and achievements. [FISITA 2010](#) will be held May 30 to June 04 in Budapest, Hungary.

[ESI](#) will contribute to [FISITA 2010](#)'s theme – Automobiles and Sustainable Mobility – with three different presentations providing engineers with knowledge and insights on developing cleaner, safer vehicles while meeting the needs of drivers and society and ensuring profitability.

[ESI](#)'s presentations will be given during the various congress technical sessions throughout the 4-day event.

1. The first paper entitled '**Recent Integration Achievements in Virtual Prototyping for the Automotive Industry**' will be presented by Fouad El-Khalidi, [ESI](#)'s Industry Marketing and Solution Strategy Manager, on Monday, May 31 at 2pm during the '*Efficient Production and Operation of Vehicles and Components*' session – H1-1.

Effective integration of the different Computer-Aided Engineering processes in the development of new vehicles is key to achieving high performance, robust designs in time and within budget. This paper will focus on recent achievements that make simulation more productive and more predictive. It will show in particular, how federating different domains under a coherent model accelerates simulation processes for multi-domain design targets; how virtual prototyping may account for manufacturing and assembly effects on geometry and material properties; how data management is important to track and propagate design and engineering changes across project teams.

2. The second paper entitled '**Adjoint-Based Drag Optimization of a Passenger Car**' will be presented by Thomas Weninger, [ESI](#) Services Sales & Marketing Director on Tuesday, June 1 at 4.30pm during the '*Styling, Aerodynamics*' session – B1-1.

An adjoint-based method applied to a surface mesh representation of a generic passenger car can improve its aerodynamic performance. Indeed, the computed sensitivity map is first used to identify those regions of significant optimization potential at the same time where shape changes do not significantly alter the design; the latter is a severe constraint for aerodynamic optimization in the car industry. Local morphing of selected regions proportional to the sensitivities, is then applied to generate an improved shape that leads to a reduced drag force.

3. The third paper entitled '**Multi-Scale Modeling to Increase the FE Model Potential**' will be presented by Karel Beneš, from [MECAS ESI](#), on Wednesday, June 2 at 8am during the '*Advanced Engineering Technologies & Tools*' session – C1-1.

It is uneasy and ineffective in a standard Finite Elements code to run a model with regions of different levels of detail. Unfortunately, it is exactly what is often needed to have a physically realistic model with predictive failure behaviour and acceptable computation time. The Multi-Scale-Modeling in [PAM-CRASH](#) resolves this problem by means of the solver coupling technology. The model is split in several modules, each of them being computed separately and communicating through defined interfaces. Thus, computation runs on the basis of a standard model, and at the same time it contains details of selected parts. Effects like crack propagation or brittle failure can then be studied, which would be impossible on models used for standard crash simulations.

Delegates will also be able to find out more about [ESI](#)'s solutions for the [automotive industry](#) by visiting

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[ESI](#)'s booth in the exhibition area.

For more immediate information, please visit:

[www.esi-group.com/virtual-performance-solution](http://www.esi-group.com/virtual-performance-solution)

[www.esi-group.com/Fluid-Dynamics](http://www.esi-group.com/Fluid-Dynamics)

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## ***ESPRIT CAM by DP Technology at PTC User World Event 2010, Orlando, Fla., June 6-9***

24 May 2010

The latest version of computer-aided-manufacturing (CAM) software created by [DP Technology](#) will be exhibited June 6-9, when ESPRIT® 2010 will be featured at PTC User World Event 2010 in Orlando, Fla.

Now in its 20th year, the annual PTC User World Event, taking place this year at the Rosen Shingle Creek Resort, offers technical training, networking opportunities and exhibitions of imaginative, cutting-edge solutions from leading technology companies.

Participants in PTC User World Event 2010 are encouraged to visit the **ESPRIT booth, No. 502**, where knowledgeable DP representatives will be available to discuss vital upgrades and perform demonstrations of how to best make those upgrades work for them.

Of most interest to those in attendance at the PTC User World Event, the ESPRIT FX™ feature tree ensures users associativity between Pro Engineer and ESPRIT, which includes improved rendering and visualization options, and supports multiple CAD models and assemblies. The associative properties of the ESPRIT FX feature tree, linking design features built inside the CAD system with manufacturing features built inside ESPRIT.

The associative technology of ESPRIT allows for the recognition of engineering changes made to a part model and the association between the original and changed part. ESPRIT retains the link to the original CAD file as well as a link to the faces utilized for each manufacturing feature created inside ESPRIT. If the CAD model changes, ESPRIT recognizes which faces have been changed, added or deleted, and will update the associated ESPRIT feature and ultimately the manufacturing processes.

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## ***Experts to Discuss the Impact of Simulation on the Future of Energy Engineering at This Year's STARGlobal Forum in Houston, Texas***

May 2010

Rising energy demand from economic advancement and improved standards of living are putting added pressure on global energy sources and supplies. With such rapid growth in energy demand, technology is critical. Engineering costs and safety issues mean that simulation plays an increasingly major role in meeting these demands.

To address this environment, CD-adapco will host its second annual Simulation for Energy Engineering STARGlobal Forum. Participants will learn how 3-D flow, thermal, and stress simulation are facilitating innovation to improve design and development for risk avoidance and performance improvement in the energy sector. The forum will host over a dozen presentations from esteemed industry leaders, industrial

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technology partners and CD-adapco's engineering simulation specialists from around the world. The presentations will include the latest performance improvement and design innovation from all aspects of Oil & Gas, Nuclear, Wind and Energy Conservation applications. Attendees will leave the event with a complete understanding of the business benefits of simulation and realistic implementation strategies for their organization.

"We are pleased to announce that A. Michael Schaal, Director, Oil and Gas Division, Office of Integrated Analysis and Forecasting, Energy Information Administration (DOE) and Professor Philip J. Smith, Director, Institute for Clean and Secure Energy (ICSE), University of Utah will open this year's event. Their keynote sessions will represent a global picture of the energy industry, as well as, tangible strategies for tapping into secure and clean energy sources while considering environmental, health, policy, and performance issues," said Dennis Nagy, CD-adapco, Vice President of Business Development and Energy Sector Director.

Furthermore, CD-adapco's simulation experts will be on hand at the event to discuss key simulation technology advancements and answer questions. Specifically, Prof. Milovan Peric, published author of multiple well-known CAE books, will be discussing advances in flow and thermal simulation for Offshore and Marine Engineering, and Prof. Simon Lo, CD-adapco's Director of Multiphase Flow Development, will be highlighting the new STAR-OLGA Link.

In addition to the Forum, the event will host a series of workshops and demonstrations. Attendees who choose to participate in these practical in-depth demonstrations and "hands-on" sessions will discover first-hand how easy it is to get useful engineering insight from new software tools and user environments.

To register or learn more about the STARGlobal Forum, please visit the website at: <http://www.cd-adapco.com/minisites/us2010/energy/>

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## ***ITC Infotech Showcases Product Lifecycle Management (PLM) and Engineering Services at PTC User World Event 2010***

May 2010

ITC Infotech will be showcasing capabilities in Product Lifecycle Management (PLM) and Engineering services at the PTC User World Event 2010, from 06-09 June in Orlando, Florida.

ITC Infotech representatives will be present in Booth 503.

As PTC's strategic outsourcing and consulting/system integrator partner globally, ITC Infotech has India's largest PLM & Engineering Services team on the PTC platform. With end to end PLM capabilities, the company can help customers achieve efficient product realization. ITC Infotech's Engineering Services practice has delivered quantifiable value and benefits to highly reference-able, marquee customers on large scale global engineering projects.

Click [here](#) to read more

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## ***Lectra to Present Integrated Offering for Automating Wind Blade Development and Manufacturing at WINDPOWER 2010***

21 May 2010

[Lectra](#) will showcase its complete and integrated suite of solutions dedicated to the manufacturing of industrial fabrics for the wind energy industry at the WINDPOWER 2010 Show.

Held at the Dallas Convention Center in Dallas Texas, May 23 - 26, the WINDPOWER 2010 Conference & Exhibition is North America's largest wind energy industry event of the year and expects over 15,000 wind energy professionals to attend. Lectra (**Booth #9861**) will demonstrate its dedicated CAD/CAM solutions for automating wind blade development and production, along with their VectorTechTex FX cutting solution for industrial fabrics and composite materials.

Enhancing Lectra's dedicated solution, the recently announced VectorTechTex FX 100, enables companies to cut wide pieces and meets the needs of professionals looking to diversify their offer by covering a broader spectrum of applications. In a tense economic context, in which companies must confront significant changes in their activities and business environment, VectorTechTex FX 100 helps ensure greater flexibility and contributes to increased profitability.

VectorTechTex FX 100 is the most advanced solution available to deliver the flexibility required by professionals working with industrial fabrics and composites. Adaptable and reliable, it is particularly well-suited to short runs and tight production deadlines. By allowing for wider cuts (up to 2.54 meters), VectorTechTex FX 100 stands out from the competition as it can process a wider variety of pieces, all of varying sizes and shapes, while limiting fabric scraps. Material consumption is thus optimized.

According to BTM Consult, an independent consultancy firm specializing in renewable energy, average growth in new installations of wind turbines is estimated at 15.7% per year until 2013. This is expected to rise to 17.2% in 2014. Consequently, companies must prepare now in order to cope effectively with this growing demand and the requirements of the market, both in terms of product quality and flexibility of supply.

According to Roy Shurling, President for Lectra North America, "Lectra's goal is to enable companies in the wind energy industry to meet the challenges they face in this rapidly growing industry. We are pleased that 4 out of the top 5 blade manufactures in the wind energy sector rely on Lectra's high performance solutions. We are committed to our wind turbine clients through the conception, industrialization and cutting of industrial fabrics."

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## ***New Date and Location Announced for Siemens PLM Connection User Group Conference***

May 2010

### **Conference Location Update**

Our thoughts are with those impacted by the devastating floods in Nashville, Tennessee and the PLM World board has decided to "relocate" our [Siemens PLM Connection](#) user group conference to Dallas on June 27 – July 2. The overwhelming feedback from you, the user community, was to continue to have the conference this year and preferably in the next several months. We are very pleased to announce that we have set a new date and location for the upcoming Siemens PLM Connection 2010 event:

**Where:** Dallas, TX

# CIMdata PLM Industry Summary

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**When:** 27 June – 2 July 2010

After looking for other event sites in Nashville during the same time, we were encouraged by the Nashville tourism office to go elsewhere because of the sustained damage, cleanup and needed reconstruction effort. We are currently in the final stages of signing the contract with the hotel in Dallas and will let you know early next week once the contract is in place with the exact details. Your registration will be maintained but you'll need to rebook your hotel which will be on the site once we announce the venue. In addition, we are also allowing you to transfer your registration to another person if scheduling is an issue.

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## ***Sescoi's CAM and ERP Software Comes to RosMould Moscow***

26 May 2010

**Sescoi** will be demonstrating its automatic CAM software, WorkNC, and its ERP system, **WorkPLAN Enterprise**, at the forthcoming RosMould exhibition in Moscow, on **Stand F in the Euromold Pavilion**.

WorkNC automatically programs the most complex components, producing fast and secure toolpaths which minimize air cutting, optimize cutting conditions, shorten machining times and maximize the quality of the finished part. Many major automotive, aerospace and shipbuilding companies and their supply chains use WorkNC to drive their CNC machinery, including BMW, Toyota, Mercedes Benz, Eurocopter, and Aerospatiale. They chose WorkNC for its ability to manipulate CAD models ready for machining, the efficiency of its roughing and finishing toolpaths, its Auto 5 automated 5-axis machining, and its dedicated 5-axis cutterpaths for impeller machining. Customers frequently report that the software has reduced their machining times by 25-30% and cut their programming times by two thirds, producing major productivity improvements, especially when used on the shop floor.

Visitors to the stand will be able to get a preview of **WorkNC V21**, the latest version of the software. Support for multi threading and multi processing will take advantage of the latest advances in computer technology, producing a 10 fold increase in the speed of calculation. Further increases in the efficiency of toolpaths will be produced by the new Global Roughing/ReRoughing toolpath. This eliminates duplicated cutterpaths and avoids air cutting and unnecessary rapid and retract moves, while enhancements to Auto 5, WorkNC's automated 5-axis machining module, offers users more options for controlling the tool trajectory.

Companies can achieve significant efficiency improvements through the introduction of ERP. SESCOI's WorkPLAN Enterprise ERP system is dedicated to the requirements of custom manufacturers such as tool and die manufacturers. The software enables them to produce highly accurate quotations, control costs and stock levels, schedule production, control quality and manage the complete lifecycle of a project. Distributors and companies interested in exploring the benefits of the software will be able to meet SESCOI's ERP Business Development Manager at the show.

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## ***Si2 to Host "Design for Manufacturability Coalition Workshop" at DAC 2010***

26 May 2010

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The Silicon Integration Initiative (Si2) announced the “Design for Manufacturability Coalition Workshop” being hosted at the Design Automation Conference (DAC) show to be held at the Anaheim Convention Center, Anaheim, CA, from June 13-18, 2010. The **“Design for Manufacturability Coalition Workshop” will be held on June 13, from 1PM – 4:00PM in Room 207C** in the Anaheim Convention Center. In consideration of today’s economic conditions, Si2 is pleased to offer this workshop free of charge. Attendees can register at the DAC website: <http://www2.dac.com/registration.aspx>. The Workshop is listed under Co-Located Events.

The DFM Workshop explores how both physics and economics conspire against performance, power and cost at the deep sub micron nodes. There is no doubt that a company's design strategy must fully address a new series of challenges in design for manufacturability. At 32nm and below, the delay and energy scaling that normally came from smaller feature sizes bottomed while the variability issues in manufacturing rose to new heights. Major shifts in design strategy are definitely underway but companies are not converging on a universal approach but pursuing proprietary strategies that are unique for their mix of products. The DFM workshop describes the tools and techniques used to recapture the lost opportunities in performance and power while building designs which are more robust to greater process variability.

The agenda will include speakers from: Cadence, GLOBALFOUNDRIES, Intel, IC Scope, Grid Simulation Technology, and North Carolina State.

Other Si2-sponsored events at DAC include the “Advances in Process Design Kits Workshop” on June 14, from 1PM-4PM and the Annual Si2 Open Meeting on June 14, from 6PM-7:30PM. Both of these events are also free of charge and open to all.

Links to more specific agendas and registration information can be found here: <http://www.si2.org/?page=11>

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## Financial News

### ***AVEVA Preliminary Results Year End 31 March 2010***

26 May 2010

AVEVA Group plc announced its audited results for the year ended 31 March 2010.

#### **Highlights**

- Solid performance in challenging market conditions focusing on our core strengths of supplying solutions and services to our customers in the Oil and Gas, Power and Marine markets
- Revenue of £148.3 million (2009 - £164.0 million)
- Recurring revenue up 9% to £102.7 million (2009 - £94.2 million) representing 69% (2009 - 57%) of total revenue
- Investment in Research and Development of £20.9 million (2009 - £27.3 million)

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- Restructuring programme complete at a cost of £1.9 million and annualised savings of approximately £5.0 million per annum
- Adjusted profit before tax of £50.7 million (2009 - £66.4 million)\*
- Profit before tax of £49.6 million (2009 - £59.2 million)
- Adjusted basic earnings per share of 50.92 pence (2009 - 69.99 pence)\*
- Basic earnings per share of 49.36 pence (2009 - 62.27 pence)
- Final dividend increased to 13.9 pence (2009 - 6.5 pence) resulting in total dividend of 16.9 pence for the year (2009 - 9.36 pence), an increase of 81%
- Continued strong cash generation with net cash and deposits at the year end of £149.7 million (2009 - £126.2 million)

\* Adjusted profit before tax and adjusted basic earnings per share are calculated before amortisation of intangible assets, share-based payments, gain/loss on fair value of forward foreign exchange contracts and restructuring costs in the relevant year. In addition, adjusted basic earnings per share also include the tax effects of these adjustments.

Commenting on the outlook, Chairman Nick Prest said:

"Despite the challenges of 2009, we have continued with the development of the business through product innovation and securing growth in new markets such as the CIS and Brazil. We see growth opportunities in each of our vertical end markets.

The key drivers for growth remain in the Power and Oil and Gas markets where projects in new regions and more complex designs are likely to see new customer wins and the expansion of existing relationships. Although the traditional Marine market looks set to be slow for some time, emerging countries that are investing to develop local capacity afford some opportunities, as does offering new product functionality to existing customers. AVEVA NET remains a strong focus for the business as a growing customer base accepts the technology solution for managing the large volumes of data in both new build and brownfield assets.

Ongoing investments in products and delivery capabilities across AVEVA's entire portfolio will continue but added emphasis on AVEVA NET delivery capacity will help to accelerate our position within the market and capitalise on the growing opportunity.

The Group's market leading technologies and a global sales infrastructure capable of benefiting from both improving global and local trends, means that AVEVA remains well placed to continue to build on its success over recent years."

### **More Information:**

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The full Preliminary Results Statement and Investor Presentation may be downloaded from the [Investor Information page](#).

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## ***Cimatron Announces Improved Results in Q1/10, as Compared to Q1/09***

24 May 2010

Cimatron Limited announced financial results for the first quarter of 2010.

The following provides details on Cimatron's GAAP and non-GAAP results for the first quarter of 2010:

### **GAAP:**

Revenues for the first quarter of 2010 were \$7.9 million, compared to \$7.8 million recorded in the first quarter of 2009.

Gross Profit for the first quarter of 2010 was \$6.7 million as compared to \$6.3 million for the same period in 2009. Gross margin in the first quarter of 2010 was 84% of revenues, compared to a gross margin of 81% in the first quarter of 2009.

Operating loss in the first quarter of 2010 was \$(103) thousand, compared to an operating loss of \$(512) thousand in the first quarter of 2009.

Net loss for the first quarter of 2010 was \$(100) thousand, or \$(0.01) per diluted share, compared to a net loss of \$(563) thousand, or \$(0.06) per diluted share, recorded for the same quarter of 2009.

### **Non-GAAP:**

Revenues on a non-GAAP basis for the first quarter of 2010 were \$7.9 million, compared to \$7.8 million recorded for the first quarter of 2009.

Gross Profit on a non-GAAP basis for the first quarter of 2010 was \$6.8 million as compared to \$6.5 million for the same period in 2009. Gross margin in the first quarter of 2010 was 86% of revenues, compared to 83% in the first quarter of 2009.

Operating Profit on a non-GAAP basis in the first quarter of 2010 was \$143 thousand, compared to an operating loss of \$(265) thousand in the first quarter of 2009.

Net Profit on a non-GAAP basis for the first quarter of 2010 was \$55 thousand, or \$0.01 per diluted share, compared to net loss of \$(407) thousand, or \$(0.04) per diluted share recorded in the same quarter of 2009.

Commenting on the results, Danny Haran, President and Chief Executive Officer of Cimatron, said, "The first quarter results are in line with our expectations. We see stability or a very mild recovery in most of our markets, with higher license revenues in Q1/10 compared to Q1/09, and healthy recurring maintenance revenues. We are pleased to show a non-GAAP operating and net profit, and significant improvement in our bottom line compared to the first quarter of 2009, mainly due to budget control measures that we took in early 2009. Of course, challenges and uncertainties remain in effect, especially in light of the current Euro-zone crisis. We will continue to exercise tight budget control, while investing in product development and marketing throughout the year," concluded Mr. Haran.

### **Conference Call**

# CIMdata PLM Industry Summary

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Cimatron's management will host a conference call tomorrow, May 25th, 2010 at 9:00 EDT, 16:00 Israel time. On the call, management will review and discuss the results, and will answer questions by investors.

For those unable to listen to the live call, a replay of the call will be available from the day after the call at the investor relations section of Cimatron's website, at: <http://www.cimatron.com>.

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## ***CIMdata Market Analysis: CAM Software Producer OPEN MIND – An Exception in Terms of Growth; OPEN MIND Bucks Market Trend***

May 2010

[OPEN MIND Technologies AG](#) is at the top of the list of leading global CAM software producers measured in revenue growth. The recently published “[NC Software and Services Market Assessment Report](#)” by CIMdata demonstrates OPEN MIND was the only leading CAM software producer able to increase revenue during the crisis year of 2009. With 150 employees, the CAM expert managed to expand its turnover from US\$31.5 million to US\$32 million in 2009. For 2010, CIMdata anticipates that OPEN MIND will improve in market shares and direct sales revenues from eighth to seventh place in a comparison of the world's leading CAM producers.

Although the NC software market shrank by a total of 15.5 per cent in 2009, OPEN MIND's annual turnover increased by 1.6 per cent over the same period. Furthermore, the CIMdata report predicted double-digit growth rates for the CAM specialist in 2010. Thanks to its streamlined structures and bundling of core competencies, OPEN MIND is the fastest growing company in its industry and has significantly overtaken its larger competitors.

“Thanks to the major commitment of our employees and our clear concentration on the independent development of CAD/CAM solutions for digital manufacturing, we were able to continue growing, even in a difficult market environment. This focus on our core competence streamlines our structures and improves our processes enormously,” Hagen Rühlich, Technical Director at OPEN MIND, said of the success.

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## ***Magma Reports Revenue of \$123.1 Million for Fiscal 2010***

27 May 2010

Magma® Design Automation Inc. reported revenue of \$33.6 million for its fourth quarter and \$123.1 million for its 2010 fiscal year, both ended May 2, 2010.

"Magma is in a much stronger position than a year ago, both in terms of products and financial performance," said Rajeev Madhavan, Magma chairman and chief executive officer. "Our key product groups – Talus, Titan, FineSim and Quartz – are demonstrating competitive strength and continuing to improve their traction in the market. As to our financial performance in fiscal 2010, we beat all guidance ranges and continued consistent cash generation. We are optimistic as we enter the new fiscal year."

### **GAAP Results**

In accordance with generally accepted accounting principles (GAAP), Magma reported a net loss of

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\$(0.7) million, or \$(0.01) per share (basic and diluted), for the fourth quarter, compared to a net loss of \$(9.9) million, or \$(0.21) per share (basic and diluted), for the year-ago fourth quarter. For fiscal 2010 Magma reported a GAAP net loss of \$(3.3) million, or \$(0.07) per share (basic and diluted), compared to a net loss of \$(129.2) million, or \$(2.89) per share (basic and diluted), for fiscal 2009.

## **Non-GAAP Results**

Magma's non-GAAP net income was \$3.7 million for the quarter, or \$0.07 per share (basic) and \$0.06 per share (diluted), which compares to non-GAAP net income of \$3.3 million, or \$0.07 per share (basic and diluted), for the year-ago fourth quarter. For fiscal 2010 Magma's non-GAAP net income was \$9.1 million, or \$0.18 per share (basic) and \$0.17 per share (diluted), compared to the company's non-GAAP net loss of \$(6.5) million, or \$(0.15) per share (basic and diluted), for the year-ago fiscal year.

Non-GAAP net income for the fourth quarter and full fiscal year of fiscal 2010 excludes the effects of amortization of developed technology, amortization of intangible assets, stock-based compensation, amortization of debt issuance costs and debt discount/premium accretion, acquisition-related expenses, gain on debt extinguishment, charges associated with equity and other investments and related legal expenses, restructuring charges and the related provision for income taxes. Non-GAAP net income for the fourth quarter and full fiscal year of fiscal 2009 excludes the effects of amortization of developed technology, amortization of intangible assets, stock-based compensation, amortization of debt issuance costs and debt discount accretion, acquisition-related expenses, charges associated with equity and other investments, asset impairment charges, restructuring charges and the related provision for income taxes. A reconciliation of our non-GAAP results to GAAP results is included in this press release.

In the fourth quarter Magma generated cash flow from operations of approximately \$2.4 million.

## **Business Outlook**

For Magma's fiscal 2011 first quarter, ending August 1, 2010, the company expects total revenue in the range of \$31.0 million to \$31.5 million. GAAP net loss per share is expected to be in the range of \$(0.07) to \$(0.06) and non-GAAP earnings per share (EPS) are expected to be in the range of \$0.02 to \$0.03. For Magma's fiscal 2011, ending May 1, 2011, the company expects total revenue in the range of \$130.0 million to \$133.0 million. GAAP net loss per share is expected to be in the range of \$(0.16) to \$(0.14) and non-GAAP earnings per share (EPS) are expected to be in the range of \$0.18 to \$0.20. A schedule showing a reconciliation of the projected non-GAAP EPS to GAAP EPS results is included in this release. A Financial Data Supplement containing additional first quarter and full fiscal year 2011 guidance, as well as detailed financial information intended to provide guidance and further insight into our business is available online in the Investor Relations section of the Magma website.

## **GAAP Reconciliation**

Magma provides non-GAAP financial information to assist investors in assessing its current and future operations in the way that Magma's management evaluates those operations. Magma believes that this non-GAAP information provides useful information to investors by excluding the effect of some expenses that are required to be recorded under GAAP but that Magma believes are not indicative of Magma's core operating results, or that are expected to be incurred over a limited period of time.

Magma's management evaluates and makes operating decisions about its business operations primarily based on bookings, revenue and the core costs of those business operations. Management believes that the amortization of developed technology and intangible assets, stock-based compensation, in-process research and development expenses, amortization of debt issuance costs and debt discount/premium

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accretion, charges associated with equity and other investments and related legal expenses, acquisition-related expenses, asset impairment charges, restructuring charges and the related provision for income taxes, and other significant unusual items are not operating costs of its core software and service business operations. Therefore, management presents non-GAAP financial measures, along with GAAP measures, in this earnings release by excluding these items from the period expenses. The income statement line items affected are as follows: (1) cost of revenue, licenses; (2) cost of revenue, bundled licenses and services; (3) cost of revenue, services; (4) operating expenses, research and development; (5) operating expenses, in-process research and development; (6) operating expenses, sales and marketing; (7) operating expenses, general and administrative; (8) operating expenses, amortization of intangible assets; (9) operating expenses, restructuring charge; (10) other income (expense), net; (11) provision for income taxes and (12) net income (loss) per share.

For each such non-GAAP financial measure, the adjustment provides management with information about Magma's underlying operating performance that enables a more meaningful comparison of its financial results in different reporting periods. For example, since Magma does not acquire businesses on a predictable cycle, management excludes acquisition-related charges, such as in-process research and development charges, to make more consistent and meaningful evaluations of Magma's operating expenses. Similarly, since Magma does not undertake significant restructuring or realignments on a predictable cycle, management would have difficulty evaluating Magma's profitability as measured by gross profit, operating profit, income before taxes and net income on a period-to-period basis unless it excluded these charges. Management also uses these measures to help it make budgeting decisions between those expenses that affect operating expenses and operating margin (such as research and development, sales and marketing, and general and administrative expenses), and those expenses that affect cost of revenue and gross margin (such as product development expenses).

Further, the availability of non-GAAP financial information helps management track actual performance relative to financial targets, including both internal targets and publicly announced targets. Making this non-GAAP financial information available also helps investors compare Magma's performance with the announced operating results of its principal competitors, which regularly provide similar non-GAAP financial information.

Management recognizes that the use of these non-GAAP measures has limitations, including the fact that management must exercise judgment in determining whether some types of charges, such as stock-based compensation relating to stock grants and acquisition-related charges, should be excluded from non-GAAP financial measures. Management believes, however, that providing this non-GAAP financial information facilitates consistent comparison of Magma's financial performance over time. Magma has historically provided non-GAAP results to the investment community, not as an alternative but as a supplement to GAAP information, to enable investors to evaluate Magma's core operating performance in the way that management does.

## **Conference Call**

Magma will discuss the financial results for the recently completed quarter and year, along with forward-looking guidance, during a live earnings call today at 2 p.m. PDT.

Following completion of the call, a webcast replay of the call will be available at <http://investor.magma-da.com/medialist.cfm> through June 3, 2010. Those without Internet access may listen to a replay of the call by telephone until 11:59 p.m. PDT on June 3 by calling:

U.S. & Canada: (800) 642-1687, code #73237755

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Elsewhere: (706) 645-9291, code #73237755

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## ***Mentor Graphics Reports Fiscal First Quarter Results***

28 May 2010

[Mentor Graphics Corporation](#) announced results for the fiscal first quarter ending April 30, 2010. For the fiscal first quarter, the company reported revenues of \$180.6 million, a non-GAAP loss per share of \$.02, and a GAAP loss per share of \$.22.

“While the quarter’s bookings were lower than last year due to the concentration of scheduled renewals in the second half of this year, the renewals that did occur in the first quarter were very strong, growing 25% from their prior contract values for the renewals within our top ten contracts,” said Walden C. Rhines, CEO and chairman of Mentor Graphics. “Leading indicators that we have historically tracked were also very positive: support reinstatements grew 70%; our base business, orders less than \$1 million typically from smaller customers, grew 20% over the year ago quarter; and consulting and training bookings grew 25% over last year.”

During the quarter, the company extended its customer partnerships with three significant new relationships. Mentor joined the Nano2012 program led by STMicroelectronics, in partnership with the French government, to develop leading-edge technologies for 32nm and below processes. Freescale Semiconductor named Mentor Graphics its commercial Linux strategic partner. NetLogic Microsystems entered into a strategic collaboration with Mentor Graphics to provide multi-core multi-threaded Linux for their processors.

“Despite two sizeable acquisitions in the last year, our operating expense is still down on an absolute basis year on year. We expect our continued strong emphasis on cost controls, as well as an improving foreign exchange environment, particularly the Euro, positions us well for the year,” said Gregory K. Hinckley, president of Mentor Graphics. “This fifth consecutive quarter of meeting or beating guidance, given our transparent real-time financial model, gives us confidence that the recovery is continuing.”

During the quarter, Mentor strengthened its offerings to the DO-254 market with a joint announcement of a product flow with The MathWorks, extensions to Mentor’s HDL Designer product to support DO-254 coding standards, and a new product, the ReqTracer™ tool, that helps automate requirements capture. The company’s Mechanical Analysis Division launched FloTHERM® IC for semiconductor package thermal characterization and design. Mentor launched 3D electromagnetic analysis for its HyperLynx® printed circuit board product line. The company completed its previously announced acquisition of Valor Computerized Systems which offers PCB manufacturing software and also acquired technology that provides on-demand electrical schematics for automobile dealerships. In early May, Mentor launched its Calibre® InRoute software which fully integrates its Calibre tools into its Olympus-SOC™ place and route environment. This allows designers to invoke Calibre verification and design-for-manufacturing tools from within the place and route environment to verify and improve designs much faster, significantly speeding time to design closure.

In April, the Valor® MSS Software suite won the Circuits Assembly New Product Introduction Award and the 2010 Surface Mount Technology Vision Award. Design News granted FloEFD™ mechanical analysis technology its Golden Mousetrap Award for Best Product. In February, the International

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Engineering Consortium honored HyperLynx Power Integrity with its annual Design Vision Award in the System Modeling and Simulation Tool Category. Additionally, Mentor's Dr. Vladimir Székely received the Dennis Gabor Award for Innovation, the country of Hungary's highest technical honor.

## **Outlook**

For the fiscal second quarter ending July 31, 2010, the company expects revenues of about \$180 million, non-GAAP earnings per share of break-even to a loss of \$.05, and GAAP loss per share of \$.17 to \$.22. For the full fiscal year 2011 the company expects revenues of \$870 million, non-GAAP earnings per share of \$.60 to \$.65 and GAAP earnings per share of \$.10 to \$.15.

## **Fiscal Year Definition**

Mentor Graphics fiscal year runs from February 1 to January 31. The fiscal year is dated by the calendar year in which the fiscal year ends. As a result, the first three fiscal quarters of any fiscal year will be dated with the next calendar year, rather than the current calendar year.

## **Discussion of Non-GAAP Financial Measures**

Mentor Graphics management evaluates and makes operating decisions using various performance measures. In addition to our GAAP results, we also consider adjusted gross margin, operating margin, net income (loss), and earnings (loss) per share which we refer to as non-GAAP gross margin, operating margin, net income (loss), and earnings (loss) per share, respectively. These non-GAAP measures are derived from the revenues of our product, maintenance, and services business operations and the costs directly related to the generation of those revenues, such as cost of revenue, research and development, sales and marketing, and general and administrative expenses, that management considers in evaluating our ongoing core operating performance. These non-GAAP measures exclude amortization of intangible assets, special charges, equity plan-related compensation expenses and charges, interest expense attributable to net retirement premiums or discounts on the early retirement of debt and associated debt issuance costs, interest expense associated with the amortization of debt discount on convertible debt, impairment of long-lived assets, impairment of cost method investments, and the equity in income or losses of unconsolidated entities, which management does not consider reflective of our core operating business.

Identified intangible assets consist primarily of purchased technology, backlog, trade names, customer relationships, and employment agreements. Special charges primarily consist of costs incurred for employee terminations due to a reduction of personnel resources driven by modifications of business strategy or business emphasis. Special charges may also include expenses incurred related to potential acquisitions, abandonment of in-process research and development acquired in an acquisition, excess facility costs, asset-related charges, post-acquisition rebalance costs and restructuring costs, including severance and benefits. Equity plan-related compensation expenses represent the fair value of all share-based payments to employees, including grants of employee stock options. For purposes of comparability across other periods and against other companies in our industry, non-GAAP net income (loss) is adjusted by the amount of additional tax expense or benefit that we would accrue using a normalized effective tax rate applied to the non-GAAP results.

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Management excludes from our non-GAAP measures certain recurring items to facilitate its review of the comparability of our core operating performance on a period-to-period basis because such items are not related to our ongoing core operating performance as viewed by management. Management considers our core operating performance to be that which can be affected by our managers in any particular period through their management of the resources that affect our underlying revenue and profit generating operations during that period. Management uses this view of our operating performance for purposes of comparison with our business plan and individual operating budgets and allocation of resources. Additionally, when evaluating potential acquisitions, management excludes the items described above from its consideration of target performance and valuation. More specifically, management adjusts for the excluded items for the following reasons:

- Amortization charges for our intangible assets are excluded as they are inconsistent in amount and frequency and are significantly impacted by the timing and magnitude of our acquisition transactions. We therefore consider our operating results without these charges when evaluating our core performance. Generally, the most significant impact to inter-period comparability of our net income (loss) is in the first twelve months following an acquisition.
- Special charges are incurred based on the particular facts and circumstances of acquisition and restructuring decisions and can vary in size and frequency. These charges are excluded as they are not ordinarily included in our annual operating plan and related budget due the unpredictability of economic trends and the rapidly changing technology and competitive environment in our industry. We therefore exclude them when evaluating our managers' performance internally.
- We view equity plan-related compensation as a key element of our employee retention and long-term incentives, not as an expense that we use in evaluating core operations in any given period. Management also believes this information is useful to investors to compare our performance to the performance of other companies in our industry who present non-GAAP results adjusted to exclude stock compensation expense.
- Interest expense attributable to net retirement premiums or discounts on the early retirement of debt, the write-off of associated debt issuance costs and the amortization of the debt discount on convertible debt are excluded. Management does not consider these charges as a part of our core operating performance. The early retirement of debt and the associated debt issuance costs is not included in our annual operating plan and related budget due to unpredictability of market conditions which could facilitate an early retirement of debt. We do not consider the amortization of the debt discount on convertible debt to be a direct cost of operations. We also believe this presentation is more useful to investors in comparing our performance to the performance of other companies in our industry who present non-GAAP results adjusted to exclude such items.
- Impairment of cost method investments can occur when the fair value of the investment is less than its cost. This can occur when there is a significant deterioration in the investee's earnings performance, significant adverse changes in the general market conditions of the industry in which the investee operates, or indications that the investee may no longer be able to conduct

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business. These charges are inconsistent in amount and frequency. We therefore consider our operating results without these charges when evaluating our core performance.

- Equity in earnings or losses of unconsolidated subsidiaries, with the exception of our investment in Frontline P.C.B. Solutions Limited Partnership, represents the net income (losses) in an investment accounted for under the equity method. The amounts represent our equity in the net income (losses) of a common stock investment. The carrying amount of our investment is adjusted for our share of earnings or losses of the investee. The amounts are excluded as we do not control the results of operations for these investments, we do not participate in regular and periodic operating activities and management does not consider these businesses a part of our core operating performance.
- In connection with the Company's acquisition of Valor on March 18, 2010, we also acquired Valor's 50% interest in a joint venture, Frontline P.C.B. Solutions Limited Partnership ("Frontline"). We report our equity in the earnings or losses of Frontline within operating income. We actively participate in regular and periodic activities such as budgeting, business planning, marketing and direction of research and development projects. Accordingly, we do not exclude our share of Frontline's earnings or losses from our non-GAAP results as management considers the joint venture to be core to our operating performance.
- Income tax expense (benefit) is adjusted by the amount of additional tax expense or benefit that we would accrue if we used non-GAAP results instead of GAAP results in the calculation of our tax liability, taking into consideration our long-term tax structure. We use a normalized effective tax rate of 17%, which reflects the weighted average tax rate applicable under the various jurisdictions in which we operate. This non-GAAP tax rate eliminates the effects of non-recurring and period specific items which are often attributable to acquisition decisions and can vary in size and frequency and considers our US loss carryforwards that have not been previously benefited. This rate is subject to change over time for various reasons, including changes in the geographic business mix and changes in statutory tax rates. Our GAAP tax rate for the three months ended April 30, 2010 is (13)%, after the consideration of period specific items. Without period specific items of \$353 thousand, our GAAP tax rate is (11)%. Our full fiscal year 2011 GAAP tax rate, inclusive of period specific items, is projected to be 57%. The GAAP tax rate considers certain mandatory and other non-scalable tax costs which may adversely or beneficially affect our tax rate depending upon our level of profitability in various jurisdictions.

In certain instances our GAAP results of operations may not be profitable when our corresponding non-GAAP results are profitable or vice versa. The number of shares on which our non-GAAP earnings per share is calculated may therefore differ from the GAAP presentation due to the anti-dilutive effect of stock options in a loss situation.

Non-GAAP gross margin, operating margin, and net income (loss) are supplemental measures of our performance that are not required by, or presented in accordance with, GAAP. Moreover, they should not be considered as an alternative to any performance measure derived in accordance with GAAP, or as an alternative to cash flow from operating activities as a measure of our liquidity. We present non-GAAP gross margin, operating margin, and net income (loss) because we consider them to be important supplemental measures of our operating performance and profitability trends, and because we believe

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they give investors useful information on period-to-period performance as evaluated by management. Non-GAAP net income (loss) also facilitates comparison with other companies in our industry, which use similar financial measures to supplement their GAAP results. Non-GAAP net income (loss) has limitations as an analytical tool, and therefore should not be considered in isolation or as a substitute for analysis of our results as reported under GAAP. In the future we expect to continue to incur expenses similar to the non-GAAP adjustments described above and exclusion of these items in our non-GAAP presentation should not be construed as an inference that these costs are unusual, infrequent or non-recurring. Some of the limitations in relying on non-GAAP net income (loss) are:

- Amortization of intangibles represents the loss in value as the technology in our industry evolves, is advanced, or is replaced over time. The expense associated with this loss in value is not included in the non-GAAP net income (loss) presentation and therefore does not reflect the full economic effect of the ongoing cost of maintaining our current technological position in our competitive industry, which is addressed through our research and development program.
- We regularly engage in acquisition and assimilation activities as part of our ongoing business and regularly evaluate our businesses to determine whether any operations should be eliminated or curtailed. We therefore will continue to experience special charges on a regular basis. These costs also directly impact our available funds.
- We perform impairment analyses on cost method investments when triggering events occur and adjust the carrying value of assets when we determine it to be necessary. Impairment charges could therefore be incurred in any period.
- Our stock option and stock purchase plans are important components of our incentive compensation arrangements and will be reflected as expenses in our GAAP results.
- Our income tax expense (benefit) will be ultimately based on our GAAP taxable income and actual tax rates in effect, which often differ significantly from the 17% rate assumed in our non-GAAP presentation.
- Other companies, including other companies in our industry, calculate non-GAAP net income (loss) differently than we do, limiting its usefulness as a comparative measure.

For the unabridged press release that contains financial tables please click [here](#).

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## Implementation Investments

### ***Apache Design Solutions' Products for Chip-Package-System Convergence Selected by ASE***

26 May 2010

Apache Design Solutions announced that ASE Inc. has adopted Apache's CPS co-design/co-analysis solutions including Sentinel-NPE (formerly PakSI-E), Sentinel-PI, and Sentinel-TI. Apache's solution helps ASE deliver high value service to their customers through close collaboration on analysis and optimization of their IC package designs.

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“Package designs are becoming increasingly complex, therefore closer engineering collaboration with our customers is crucial”

ASE has a broad package portfolio, encompassing leadframe, wire bond BGA, and flip chip, all of which present differing challenges related to timing, power and stress analysis. Using Apache’s Sentinel-NPE, ASE can efficiently extract 3D RCLK models, which are then provided to customers so they can perform early stage prototyping, accurate power analysis, and dynamic sign-off. ASE also uses Sentinel-PI with CPM to perform chip-package co-simulation and co-optimization, and Sentinel-TI for chip-package thermal and thermally induced stress analysis.

“Package designs are becoming increasingly complex, therefore closer engineering collaboration with our customers is crucial,” said Dr. Ho-Ming Tong, Chief R&D Officer & General Manager of Group R&D, ASE Group. “Apache provides the ability to deliver accurate package models earlier in the design cycle so our customers can optimize their chip-package interface to reduce cost and avoid last minute signoff problems. Apache’s products present ASE a strong value proposition, which rounded out with a strong roadmap and local support, make them a clear choice for CPS partnership.”

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## ***ARM Physical IP Production Characterization System Utilizes Magma SiliconSmart Software***

25 May 2010

[Magma® Design Automation Inc.](#) announced that ARM® has successfully utilized Magma's SiliconSmart® characterization and modeling software suite to enhance and expand ARM's production characterization system for Physical IP products. This fast, accurate and easy-to-use characterization system will assist ARM in delivering standard cell and I/O libraries.

ARM Physical IP products provide a wide range of building blocks to create highly optimized system-on-chip (SoC) designs without compromising silicon area and performance. To enable designers to incorporate this IP into today's implementation and sign-off flows, ARM must provide qualified, accurate electrical models such as composite current source (CCS) and effective current source models (ECSM) for timing, power and noise. Accurate IBIS models for I/Os are also required to support board-level electrical analysis. To ensure these libraries work across a wide range of applications and SoC design flows, these models must be generated across numerous process points, supply voltages and junction temperatures. SiliconSmart is a fast and accurate component of the ARM characterization system that generates and validates these models, increasing predictability of silicon and improving designer productivity.

"The Physical IP solutions made available via our process-optimized, high-performance and high-density standard-cell libraries and general purpose and specialty I/Os provide our customers with high quality and flexibility to meet the most demanding design requirements," said Brent Dichter, ARM vice president of Design Automation, Physical IP division. "Our customers' requirements continually evolve over time, and SiliconSmart has helped us develop the automation, performance and reliability we need to rapidly characterize our standard-cell and I/O products."

"There are significant challenges associated with designing IP libraries for a wide range of design applications, and with setting up a process for generating accurate timing, power and noise model libraries that will work in different EDA flows," said Anirudh Devgan, general manager of Magma's Custom Design Business Unit. "Given the volume of characterization ARM requires, setting up a process and generating the necessary models in a timely fashion is enhanced by the characterization

flow based on Magma's SiliconSmart."

## **SiliconSmart: Fast, Accurate Characterization and Modeling**

SiliconSmart provides standard cell and I/O characterization and modeling for all popular design flows and supports advanced timing and power modeling. It is a comprehensive library characterization system that produces production-ready models with minimal setup effort.

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## ***Autodesk Helps Micromidas Transform Organic Waste into Biodegradable Plastics***

26 May 2010

Micromidas, Inc. is using software from [Autodesk, Inc.](#) to design processing plants that convert organic wastewater into biodegradable and recyclable bioplastics.

The Autodesk [Clean Tech Partner Program](#) — which provides software grants for emerging clean tech companies in North America and Europe — helped Micromidas accelerate design of its processing plants and equipment through [Digital Prototyping](#) technology, including [Autodesk Inventor](#), [Autodesk Algor Simulation](#), [Autodesk Showcase](#) and Autodesk Vault Professional software.

Micromidas processing plants enable municipalities to effectively and ecologically dispose of solid waste (or “sludge”) while producing environmentally friendly plastics. Micromidas has pioneered a complex bio-refinery process where microbes — natural microorganisms — consume the carbon in raw waste and convert it into a bacterial polymer that can be harvested and used as plastic. The processing plants require anywhere from 50 to 100 different machines and systems working in concert: everything from centrifuges and hydrocyclones to piping systems, reactors and extruders. Using Autodesk Inventor software, [Micromidas](#) can quickly design, visualize and simulate its biorefinery systems and processes. Autodesk Algor Simulation software helps the company to accurately measure fluid dynamics interactions within the simulated context of a wastewater treatment plant.

“Like most start-ups, we’re a relatively small company. We don’t have hundreds of employees at our disposal to help us develop a new technology,” said John Bissell, CEO of Micromidas. “Autodesk software helps level the playing field by ‘amplifying’ our manpower. With digital prototypes, we can rapidly explore designs and iterate much faster than we otherwise would.”

Autodesk Showcase software helps Micromidas create realistic 3D visualizations of its designs to share with investors and prospective customers, while Autodesk Vault Professional software can securely store and manage all engineering information, design data and documents in a central location.

Improved efficiency has enabled Micromidas to transform its technology from idea to finished product. The company’s first pilot plant, the Mobile Biorefinery, is currently under construction with plans to be operational within the next three months. The pilot plant is built on a flatbed truck capable of plugging into wastewater treatment plants across the United States.

## **About the Clean Tech Partner Program**

The Autodesk Clean Tech Partner Program grants software to early-stage clean technology companies to help them innovate more rapidly and get to market faster and at lower cost. Each Autodesk Clean Tech Grant recipient receives up to \$150,000 of design software, including up to five licenses of AutoCAD Inventor Professional Suite, Autodesk Showcase Professional, Autodesk Vault Professional, Autodesk

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Navisworks Manage, Autodesk Revit Architecture, and Autodesk Alias Design. For additional information, visit <http://www.autodesk.com/cleantech>.

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## ***Borroughs Corporation Selects Microsoft Dynamics AX and PTC's ProductPoint Solutions from First Tech Direct***

24 May 2010

First Tech Direct, a Microsoft Gold Certified Partner focused on helping companies manage their business processes more effectively and efficiently, announced that Borroughs Corporation has selected Microsoft Dynamics® AX to replace its existing enterprise resource planning (ERP) system. Borroughs Corporation, a Michigan-based manufacturer of industrial storage equipment, office storage equipment, library shelving, and high density mobile systems, will use Microsoft Dynamics AX and PTC's ProductPoint to gain better visibility into their inventory, production planning and forecasting across all operational levels to help them grow. The integration between Microsoft Dynamics AX and PTC's ProductPoint will reduce entering BOM data in two separate applications and speed time-to-market.

"When it came time to select a new enterprise resource planning (ERP) system to replace our dated legacy system, we chose Microsoft Dynamics AX over offerings from Epicor and Infor," said Greg Worsnop, Vice President at Borroughs Corporation. "Dynamics AX offers us an integrated, user-friendly platform that we can leverage with our existing Microsoft investments, such as Office and SharePoint for greater visibility into our customers and our business as a whole. Dynamics AX allows us to enhance our customer experience and better plan for 'rush orders' and larger manufacturing projects. First Tech Direct's considerable amount of time spent to understand our needs demonstrates their expertise in our industry and strong commitment to help us focus on our future growth."

### **About First Tech Direct**

First Tech Direct delivers industry expertise as a leading provider of Microsoft Dynamics® business solutions; including Microsoft Dynamics® AX, Microsoft Dynamics® GP, Microsoft Dynamics® SL and Microsoft Dynamics® CRM. First Tech Direct also provides PTC®'s, The Product Development Company®, range of Product Lifecycle Management (PLM) solutions for discrete manufacturing companies.

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## ***Dassault Systèmes DELMIA Robotics Drives Bilsing Automation Business***

27 May 2010

Dassault Systèmes (DS) has announced that [Bilsing Automation GmbH](#) (Attendorn, Germany), a global provider of flexible tooling and handling systems for press and body shop applications, has seen important competitive impact due to its deployment of DS DELMIA Robotic simulations.

"System simulation is a requirement in order to gain projects from many OEMs," said Fabien Davaine, Bilsing project simulation engineer. "We have experience in different software, but DELMIA is really the best one—the easiest, the fastest and the most effective. Without it, we would not have won some of the projects that we have."

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Bilsing's success is built upon its ability to develop a customized automation solution from the company's vast catalog of standard components. Simulations help the company to deliver optimum product performance. By simulating robot motions in the virtual world, Bilsing Automation can verify that the robots will be able to achieve all the required motions and that there will be no interferences. This can eliminate re-tool time during the build phase, hugely affecting system launch time. Davaine cites an example where simulation indicated a collision with a die in a stamping press. If that had not been identified prior to production, hours would have been spent by the plant to mill the die down to size; instead the diemaker modified his die design prior to production.

Bilsing originally began applying the DELMIA IGRIP robotics solution with the stamping module add-on back in 2003 and is now migrating to the DELMIA Robotics software. This provides the added benefit of allowing the company to work in the native CATIA environment, which is the virtual design solution of choice of almost every automotive OEM. One common data model eliminates the potential of any data loss through translations, thus enhancing the quality of its projects and bolstering Bilsing's ability to work with the automotive community.

Currently all of the Bilsing simulations are produced by the French subsidiary of Bilsing Automation in Valenciennes, but the simulations can be shared via virtual design reviews with anyone on the project no matter where they are located. Additionally, seeing a proposed automation system operating in the virtual world provides an added benefit of boosting customer confidence in the system's ability to achieve all its specifications.

According to a [CIMdata](#) study, smaller companies that invest in simulation can typically achieve a 5:1 annual return on investment.

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## ***Digital Prototyping with Autodesk Inventor Lights up Preciosa's Product Development***

24 May 2010

[Autodesk, Inc.](#) named Preciosa, a producer of cut crystal chandeliers and lighting fixtures, as the Autodesk Inventor of the Month for May.

The Czech-based company uses [Autodesk Inventor](#) software, in conjunction with [AutoCAD Mechanical](#) and [Autodesk Vault Professional](#) software, to design, visualize and simulate its products in 3D and easily share [digital prototypes](#) with customers—helping them design their dazzling wares in half the time and with 70 percent fewer mistakes.

Preciosa creates custom fixtures for hotels, palaces, music halls and cathedrals in Europe, Asia, the Americas and the Middle East. Since these chandeliers can contain extremely intricate design elements—such as hundreds of triangular glass parts arranged in a spiral— using a 3D model to validate designs is critical to avoiding production mistakes.

To better accomplish this goal, Preciosa worked with Autodesk Authorized Reseller Dagis to deploy Autodesk Inventor software, which takes manufacturers beyond 3D to Digital Prototyping. Creating 3D models in Inventor enables Preciosa to create compelling imagery for customers to review and approve before the products are manufactured.

## Digital Workflow Improves Design Processes

“We share the Inventor model with our customers, and they have the immediate opportunity to provide us with feedback,” said Almir Ibisevic, head of engineering at Preciosa. “With Inventor software, we are able to detect risks early while we are first processing concepts. This gives us time to point out potential risks to customers and work with them to eliminate the risks by coming up with effective solutions.”

AutoCAD Mechanical enables Preciosa to access 2D digital design and documentation tools as needed, while Vault Professional software provides a centralized location for managing both 2D and 3D engineering data.

Having this digital workflow in place has enabled Preciosa to significantly reduce adverse factors in the manufacturing process, which can be challenging to prevent without 3D models. Additionally, the company has reduced the number of physical prototypes needed before the completion of a design. Preciosa now finds complex chandeliers that once took a month to design can be completed in two weeks or less.

## About the Autodesk Inventor of the Month Program

Each month, Autodesk selects an Inventor of the Month from the users of Autodesk Inventor software. Winners are chosen for engineering excellence and groundbreaking innovation. For more information about Autodesk Inventor of the Month, contact us at [IOM@autodesk.com](mailto:IOM@autodesk.com).

## About Dagis

Dagis a.s. is a supplier of CAD solutions and technical and business support for production and designing companies. Established in 2001, Dagis supports clients across the Czech Republic from its multiple branches. For more information, visit <http://www.dagis.cz/>.

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## *DS SolidWorks Helps Bring Lifesaving Artery Tool to Reality*

24 May 2010

Artherosclerosis, or hardening of the arteries, is an extremely common and lethal disease. To treat it, more than a million angioplasties are performed in the United States every year. A new technology, designed by [Cardiovascular Systems Inc.](#) (CSI) using [SolidWorks®](#) software, is giving a growing number of patients a compelling alternative to high-pressure angioplasty.

Called [orbital atherectomy](#), the new procedure uses disposable, diamond-coated, catheter-based artery probes of varying sizes to sand away plaque, which can be as hard as bone. Careful, high-speed sanding can open a smooth pipe for significantly improved blood flow, reducing the risk of rupturing blood vessels or breaking off stroke-inducing chunks of plaque. More than 99 percent of the particles are smaller than a red blood cell and are washed away with the patient's blood flow.

“I've watched a pair of pallid feet turn healthy pink as the doctors use our [Diamondback 360® PAD System](#) to restore circulation,” said CSI Design Services Manager Christopher Narveson. “The procedure can help a homebound patient get up and walk the beach with his/her spouse overnight. It can

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eliminate the need for amputation, which has devastating lifestyle consequences. Helping people this way makes it a joy to go to work in the morning.”

SolidWorks software helped Cardiovascular Systems take a viable product design, consisting solely of 2D drawings, and bring it quickly to market, according to Narveson. Modeling the Diamondback 360 in SolidWorks automatically readied the design for manufacturing.

Use of [3DVIA Composer](#) publishing software has saved the company time, money, and effort by automating assembly instructions and displaying them on clean-room computer screens. This has enabled the company to forego paper instructions that require constant re-cleaning.

3DVIA Composer also helps doctors, marketers, and partners see the Diamondback in action and appreciate its benefit by viewing animations from SolidWorks CAD models. CSI uses [SolidWorks Simulation Premium](#) software to optimize the performance of affordable, high-strength plastic components.

Switching to SolidWorks shortened the company’s design cycle from two years to nine months and helped CSI pare more than 20 percent of material costs from the product. SolidWorks has also enabled quick development of second and third generations of the Diamondback. These new devices require fewer people and less equipment to operate.

“We can’t imagine life without SolidWorks,” said Narveson. “It enables us to continuously improve the product, easily explain how it works, and thereby help more patients and our company as well. Without it, we’d be back in the stone age.”

The Diamondback 360 is FDA-approved for use in limb arteries and will begin clinical trials for coronary artery disease in 2010.

Cardiovascular Systems relies on authorized SolidWorks reseller [Symmetry Solutions Inc.](#) for ongoing software training, implementation, and support.

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## ***IMMCO Joins Bentley’s Enterprise License Subscription Program***

26 May 2010

Bentley Systems, Incorporated announced that IMMCO, Inc., the leading U.S. provider of GIS, software, mapping, and network design services to the broadband industry, has joined Bentley’s Enterprise License Subscription (ELS) program. Bentley’s innovative ELS provides competitive advantage while reducing annual software costs by granting infrastructure professionals unrestricted access to a comprehensive portfolio of architectural, engineering, construction (AEC), geospatial, and operations software for a single annual fee. Built on a common platform, the ELS portfolio includes more than 300 integrated and interoperable design, analysis, and collaboration software products that help increase the productivity of both local and widely distributed project teams.

“Bentley’s products are well accepted in the broadband industry and are frequently requested by our customers,” said Dr. Ramesh P. Iyer, president of IMMCO. “At the same time, we regularly recommend Bentley products to our customers as the best and most innovative approach to project challenges. Both scenarios require the flexibility to easily access Bentley products on demand. Our new Bentley ELS program affords us this flexibility, while also enabling us to quickly and cost-effectively tailor our software toolset to meet our changing project mix.”

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[IMMCO](#) uses Bentley's communications products, including Bentley Fiber, Bentley Coax, and Bentley Inside Plant, to execute a wide range of projects in support of the broadband industry. IMMCO's projects include field engineering such as mapping, surveying and data capture, inside plant documentation, as-built verification, new network segment design, data conversion and integration, and GIS solutions. Among IMMCO's customers are Time Warner Cable, Comcast, Charter Communications, Bright House Networks, Cablevision, Cox Communications, and Mediacom Communications Corp., among others.

The Bentley ELS gives IMMCO's teams a cost-effective way to provide technically creative alternatives and sustainable solutions for their projects. As a strategic benefit, the Bentley ELS helps organizations such as IMMCO become more agile. Project starts can happen faster, teams can reconfigure for new opportunities more quickly, and no-charge pilots allow new technology to be infused into projects more readily. In addition, ELS agreements can include partners, extending the agility and multiplying the benefits in global projects.

Bentley's ELS also supports the use of software in multiple countries on a pooled license basis, which is crucial to a global firm like IMMCO. This enables distributed teams to balance software supply and demand across offices, saving money and maximizing worldwide license utilization.

Dr. Iyer added, "IMMCO's involvement with Bentley goes beyond that of being a user. We are also proud to be a member of the Bentley Developer Network. This allows us to build on Bentley's software advancements and introduce innovative solutions of our own into the marketplace, giving us an important additional competitive advantage."

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## ***Kreuz Robots Speed Up with Spatial's 3D Components***

26 May 2010

Spatial Corp., a provider of [3D development](#) components for design, manufacturing and engineering applications, announced that Kreuz Co. Ltd., a manufacturing company specializing in deburring machines, has released Deburring CAM. The product incorporates Spatial's 3D ACIS® Modeler, 3D InterOp, and HOOPS® 3D Application Framework components to significantly shorten the complex path creation time for their robots. Kreuz's deburring technology is utilized by companies such as Toyota Motor Corporation, Denso Corporation, and Honda Motor Co., Ltd. Kreuz, headquartered in Japan, selected Spatial's 3D components because they enabled them to achieve significant competitive advantage with the release of Kreuz's robot simulation software. With Deburring CAM users are able to decrease teaching time by up to 90%.

"One of our biggest goals with our specialized deburring machines was to decrease the teaching time to create tool paths for deburring and simulation. Because the quantity of teaching points is large, a lot of time had been required for teaching preparation and teaching itself. In 2006, we started to create new 3D OLP software with Spatial's 3D components to reduce the teaching time," commented Shuichi Nakata, Kreuz President. "Though we had very limited expertise in 3D software development, we could develop the very rich 3D software by taking advantage of Spatial's 3D components as well as Spatial's dedicated support. We finished the development of 3D functionalities in only ten months."

Established in 1989, Kreuz is the one of the few manufacturers that specializes in the deburring machine. Customers choose Kreuz for this sophisticated machine, which allows for different types of deburring depending on the product. Previously they had to prepare for the teaching point map in

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advance and create teaching points by using the real robot online. When they compare the teaching time of the die-cast part, manual online teaching required 30 hours to create 269 teaching points. The offline teaching using DeburringCAM with Spatial's [3D development](#) components required three hours to create the same teaching points.

“Machine manufacturers are looking for ways to expand their market, improve their revenues, margins, and gain a competitive advantage. 3D applications offer all of these benefits while providing their users ease-of-use and improved productivity. Spatial offers these manufacturers, such as [Kreuz](#), a technology partner that is an expert in 3D application development,” stated Junichiro Kochi Spatial General Manager, Asia Region. “Though the recent economic conditions have been a challenge for machine manufacturers, their interest in our technology and development services to improve their competitiveness has increased.”

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## ***Leading German Automaker Selects SIMULIA Solutions for Passive Safety***

25 May 2010

[Dassault Systèmes](#) (DS) announced that, as an extension to the recent new five-year partnership with Dassault Systèmes, BMW Group has renewed their commitment to use Abaqus Unified FEA (finite element analysis) software for the engineering of passive safety in the automaker's virtual design process.

Ongoing optimization of vehicle development processes at BMW for passive safety requires continuous advances in the ability to accurately predict real-world behavior. The renewed partnership with SIMULIA follows extensive evaluations carried out by BMW over several months, ranging from component-level to full-vehicle simulations and involving key applications in car body technology as well as occupant restraint systems. Their evaluation results showed that Abaqus FEA consistently delivered a higher level of predictiveness and repeatability against physical tests than other simulation software that they evaluated. This robustness and reliability is critical as BMW moves toward a more efficient and cost-effective virtual vehicle development process that depends less and less on physical prototyping and testing.

“This announcement represents an endorsement of our continuous investment in R&D and focus on providing the most reliably predictive finite element technology available today,” stated Ken Short, VP, Strategy and Marketing, [SIMULIA](#), Dassault Systèmes. “The automotive industry is emerging from a challenging economic situation, and those companies with significant competitive advantages will be positioned well to come back faster and stronger than before. We believe that Abaqus Unified FEA can help our customers reduce time and cost in meeting increasingly rigorous standards for crashworthiness and occupant safety.”

BMW first began employing Abaqus as its exclusive tool for crash simulation in 2004, when vehicle development projects were largely supported by hardware testing and the focus of simulation was on global vehicle behavior. More recently, BMW has begun a strategic shift toward a more complete virtual development process. This strategy involves a greater reliance on the accuracy of highly detailed simulations including material rupture and failure of spot weld connections, but integrated within the scope of large, complex full-vehicle simulations. The strong correlation between physical test and simulation results obtained with Abaqus is enabling BMW to achieve its aggressive process improvement goals, resulting in substantial cost and time savings for each vehicle project, while meeting

stringent safety requirements.

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## ***Mentor Graphics Announces OEM Worldwide's Purchase and Implementation of Valor Software Solutions***

26 May 2010

[Mentor Graphics Corporation](#) announced that OEM Worldwide, an electronics contract manufacturer for medical, telecom and industrial markets, purchased its printed circuit board assembly software management solutions at the IPC/APEX Expo, held from April 6-8, 2010 in Las Vegas.

Craig Green, CEO of OEM Worldwide, purchased the OEM Trilogy™ 5000 Data Preparation software from the Valor® Division of Mentor Graphics, as well as design-for-manufacturing (DFM) analysis software tools for assembly, test, and bare board.

“OEM Worldwide purchased the Valor tools for two primary reasons,” said Jamie Hale, OEM Worldwide vice president of technical services. “The first is to scrub and standardize master data from customers to create a lean standard work process through new product introduction.” Having a standard set of data for each new product will help automate and streamline all of the data load process into existing OEM systems with verifiable accuracy. This also will provide a feedback loop to the customer that they have conflicting data sets in their PLM system.

“The other reason is for DFM reporting,” Hale continued. “The verification of design and feedback to customer design teams is critical to preventing line down situations and follow on quality defects in the process. The complexity of design has made human review of design data an obsolete process.”

“The Valor solutions from Mentor provide electronics manufacturers with a sustainable competitive advantage by allowing them to offer a higher value proposition to their customers, as well as improved communications with their customers’ R&D and design departments,” said Dan Hoz, general manager of the Mentor Graphics Valor Division. “In today’s dynamic manufacturing environment, this is a ‘must-have,’ and we are happy to see that OEM Worldwide also will be able to benefit from them.”

The Valor OEM Trilogy 5000 Data Preparation software supports full virtual “prototyping” of the design of an electronics product. Additionally, it enables fast off-line simulations to validate physical design characteristics against assembly and test constraints before a first article or pilot run. The Valor users can validate critical manufacturing processes in advance, such as solder-joint formation, test-point accessibility, pick-and-place constraints, rework accessibility, and much more.

The Valor DFM software tools bring designers and the manufacturing supply chain together. The platform rationalizes the requirements of the design engineer and manufacturers who need to build products at a rapid pace and with the highest quality. The Valor DFM solution is comprised of more than 700 design checks, covering all stages of the design process.

Founded in 1989 and headquartered in Watertown, South Dakota, OEM Worldwide is a mid-sized electronics contract manufacturer specializing in medium-volume PCB assemblies and box build for products for medical, telecom and industrial applications. The company is ranked in the top 70 EMS providers and operates from its 80,000 sq. ft. facility that it outfitted with new surface mount production lines and associated test and validation equipment. The facility is configured for high-velocity manufacturing practices, enabling OEM Worldwide to continue exceeding customer expectations by providing unparalleled manufacturing services and solutions. For more information, visit

<http://www.oemworldwide.com>.

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## Product News

### ***Agilent Technologies' Latest 3D EM Simulation Software Accelerates High-Frequency, High-Speed Design***

20 May 2010

Agilent Technologies Inc. announced [Electromagnetic Professional \(EMPro\) 2010](#), a new release of its 3D electromagnetic (EM) modeling and simulation software for analyzing the 3D EM effects of IC packages, connectors, antennas and other RF components. Used in the development of high-frequency and high-speed electronic devices, the new release features significant improvements in simulation speed and design efficiency.

"EMPro's speed, accuracy, and efficiency improvements go a long way in meeting the needs of today's high-frequency, high-speed device designers," said Marc Petersen, product marketing lead in Agilent's EEs of EDA organization. "These improvements also provide a significant benefit to users of our Advanced Design System software, who are using EMPro within their design flow."

Some of the new capabilities now available in EMPro 2010 include:

- faster finite element method (FEM) simulations through meshing improvements and use of symmetry planes;
- built-in acceleration of finite difference time domain (FDTD) simulations utilizing graphics processor unit (GPU) hardware;
- enhanced FEM accuracy through the use of new sheet ports and material property models;
- improved design efficiency with a new bondwire component, ODB++ file support for printed-circuit-board designs, and several other new user interface features; and

Microsoft Windows® 7 support in addition to Microsoft Windows XP, Vista and Linux support.

More information about EMPro 2010 and Agilent's 3D EM design flow is available in a new [five-minute video](#) on YouTube.

See Agilent Technologies' latest design and test innovations for advanced RF and microwave research, development and manufacturing at the [2010 IEEE MTT-S International Microwave Symposium](#), May 25-27, at the Anaheim Convention & Exhibition Center, Booth 924.

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### ***CAD Schroer's MEDUSA4 Personal Downloads up by 38% for Free 2D/3D CAD on Linux® and Windows®***

26 May 2010

In Q1 of 2010, downloads of MEDUSA4 Personal (the free version of [CAD Schroer's](#) professional 2D/3D drafting suite, used by companies worldwide) rose by 38% in comparison to the same period last

year, the engineering solutions provider said today.

CAD Schroer attributes the growth partly to its commitment to regular software updates; partly to the popularity of Linux; and partly to the creativity of small businesses during tough economic times. Its eSERVICES portal allows registered companies to deploy MEDUSA4 Personal free of charge at the office, then convert commercially viable results from Euro 2.99.

## [Download the free CAD package with a free account](#)

### **The CAD alternative for Linux**

“Especially Linux enthusiasts and start-up design businesses are keen to use MEDUSA4 Personal for hobby and commercial projects,” says Managing Director Michael Schroer. “A free powerful drafting product combined with a free operating system make any new project or business proposition much more viable. We’ve had great feedback from users worldwide.”

“The software and its modules meet all the needs for hobby and even small business design requirements,” said an e-mail from Russia, where 68% use Linux, compared with 33% globally. “A very good alternative to a\*\*\*cad,” said a recent post by a Honduran member of the Warianoz Linux forum, who uses MEDUSA4 Personal to design model airplanes. Latin America has the biggest proportion of users on Linux. In Q1 of 2010, 100% of Honduran, 93% of Mexican and 88% of Argentinean downloads of the 2D/3D CAD software were for Linux.

### **Impressed with CAD Schroer’s support**

CAD Schroer does not guarantee technical support on its free software, but its engineers do their best to answer user questions. “Thank you for your quick support,” said a recent e-mail from a German user, “MEDUSA4 Personal installed without a hitch. I have to say I am absolutely thrilled with this product.”

### **Top ten**

The top ten MEDUSA4 Personal user countries and their approximate proportion of Linux users in Q1 2010 were: Germany (10%), Italy (65%), France (31%), Switzerland (13%), Austria (14%), USA (42%), Russia (68%), Spain (87%), Mexico (93%) and the Czech Republic (73%).

## [MEDUSA4 Personal Download on Linux or Windows](#)

“We are thrilled about the continued growth of the MEDUSA4 Personal community,” says Michael Schroer. “Our dedication to ongoing product development and our expanding online service offering are a clear sign to users in 152 countries of our long-term commitment to them.”

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### ***Cadac Organice Introduces Cadac Organice Explorer LT***

24 May 2010

Cadac Organice BV, a Microsoft Gold Certified Partner developing [Cadac Organice](#), a SharePoint based suite of solutions for document management, introduced Cadac Organice Explorer LT.

[Cadac Organice Explorer LT](#) is a smart client for SharePoint that enhances the SharePoint user experience. It provides additional functionality to navigate through SharePoint sites and libraries and to search, sort, group, filter and manage documents, items and metadata in SharePoint. Similar to Microsoft Outlook being your client to your email on the Exchange Server, Cadac Organice Explorer LT is your client to your documents and items on the SharePoint Server. It shows your SharePoint site(s)

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structure, content of your list and libraries, and metadata of your documents all in one interface. Furthermore it presents the document history, with an overview of the different document versions, metadata and metadata changes.

Unlike working with SharePoint through a browser interface, Cadac Organice Explorer LT offers full functionality of a Windows client, and provides full integration between SharePoint and Microsoft Office and Outlook for managing email. Users can directly save, store, check out and check in their documents and email from their applications to the SharePoint Server, by selecting the proper site and library and entering the correct metadata. And working with their SharePoint sites and libraries, users can quickly retrieve documents using the powerful search and retrieve capabilities.

Cadac Organice Explorer LT is a [smart client for SharePoint](#) that enhances the SharePoint user experience and increases the efficiency of users working with documents and information in SharePoint.

Cadac Organice Explorer LT is available from May 24, 2010.

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## ***Cadence and IBM Team to Develop Leading-Edge IP***

24 May 2010

Cadence Design Systems, Inc. announced a joint development agreement with IBM to create high-performance integration-optimized IP that will help customers deliver leading-edge designs while reducing the risk and time associated with integrating complex SoC Designs.

Under the agreement, the companies will develop DDR PHYs, memory controllers, and protocols such as PCIe and Ethernet under 32-nanometer silicon-on-insulator. The technology will be used in servers, video games and other devices and will be available through the newly announced Cadence® Open Integration Platform.

A core component of its EDA360, vision, the Cadence Open Integration Platform comprises an integration design environment, integration-optimized IP and on-demand integration services, all facilitated by Cadence's leading mixed-signal and digital design, verification and implementation technologies.

“Qualifying and integrating complex IP is a costly and growing burden for many of our customers,” said Vishal Kapoor, vice president, Product Management of Cadence. “We look forward to teaming with IBM to relieve some of that burden for engineering teams as they grapple with SoCs and systems that will only continue to grow in size and complexity.”

“The IP we're working on with Cadence will provide state of the art building blocks that will allow our customers to build more powerful, higher bandwidth networking and communications technology,” said Marie Angelopoulos, director, IBM Microelectronics. “This collaboration with Cadence combines IBM's expertise in developing and integrating process and IP technology with Cadence's experience in IP development to supply customers with the tools needed to build a new generation of communications infrastructure.”

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## *Dassault Systemes Announces New Multiphysics Technology in Abaqus Release 6.10 from SIMULIA*

24 May 2010

[Dassault Systèmes](#) (DS) announced the availability of Abaqus 6.10, a leading unified Finite Element Analysis (FEA) and multiphysics product suite for realistic simulation from SIMULIA.

In response to expanding industry demand for realistic simulation, the new release delivers on more than 100 customer-requested enhancements for modeling, performance, usability, visualization, multiphysics, and core mechanics. Designers, engineers, and researchers in all industries can now perform virtual tests that more accurately predict real-world behavior of materials and product designs, allowing them to improve product performance while reducing development time and cost.

Abaqus 6.10 introduces a new multiphysics capability for performing Computational Fluid Dynamics (CFD) simulation. This enables users to perform coupled physics simulations with Abaqus/Standard and Abaqus/Explicit, such as fluid-structure interaction between human tissue, a medical device, and fluid flow; thermal analysis of electronic systems undergoing convection cooling; or transient thermal analysis of engine exhaust systems.

“In order to simulate performance of engine components in a closer-to-reality environment, we are pleased that Abaqus 6.10 provides the Computational Fluid Dynamic capabilities for fluid-structure interaction which will enable us to perform accurate fluid and solid co-simulations,” said Dr. Fred Yang, technical leader of bearing analysis from Federal-Mogul Powertrain Sealing and Bearings Group USA. “The new solution certainly gives us significant enhancements to explore multiphysics interaction in our designs and optimize our products to reduce engine power loss and lower overall material costs.”

The release also reinforces SIMULIA’s commitment to providing an open multiphysics platform through improvements to its direct co-simulation coupling interface. This capability allows SIMULIA partners and customers to couple their applications directly with Abaqus for best-in-class multiphysics simulation.

With this release, SIMULIA also extends its leadership in the simulation software industry by delivering innovative technology for realistic fracture and failure analysis. Abaqus 6.10 features enhancements to its extended finite element method (XFEM) that improves the process for modeling fracture of composite materials. It also provides dramatic performance improvements for parallel processing of simulations that use XFEM, or the implicit dynamic procedure, allowing more simulations to be performed in less time.

“It is important to use the best technologies and methods available to assess the safety of nuclear power plant components,” stated Dipl.-Ing. Axel Schulz, TÜV Nord. “The XFEM capabilities in Abaqus 6.10 will make it easier to perform virtual safety evaluations of nuclear power plant piping systems and pressure vessels. With this new release, realistic simulation of crack propagation based on both the cohesive segments method and linear elastic fracture mechanics is now feasible, while using the implicit dynamic procedure for improved stability.”

“Responding to our customers’ requests for new and improved capabilities is the key to our strategy of providing the most robust realistic simulation solutions possible while ensuring a high level of customer satisfaction,” stated Steve Crowley, director of product management, SIMULIA, Dassault Systèmes. “With Abaqus 6.10, we delivered more than one hundred customer requested enhancements including a unique solution to quickly generate mid-surfaces of thin parts in Abaqus/CAE. This release continues our commitment to enhancing our core mechanics and developing new and industry-leading

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multiphysics technology that helps our customers become more productive and efficient in evaluating and improving product performance.”

Abaqus 6.10 will be featured at the 2010 SIMULIA Customer Conference (SCC), May 24-27, in Providence, Rhode Island. Microsoft and CD-adapco are the premier sponsors of the SCC, which will host more than 400 attendees from world-leading manufacturing companies.

For the full list of new features and enhancements, visit: [www.simulia.com/products/abaqus\\_fea](http://www.simulia.com/products/abaqus_fea).

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## ***Dassault Systemes Announces New Release of Isight for Simulation Automation and Design Optimization from SIMULIA***

26 May 2010

[Dassault Systèmes](#) (DS) announced the release of Isight 4.5, a market-leading simulation process automation and design optimization solution from their SIMULIA brand, as well as the SIMULIA Execution Engine (formerly Fiper) 4.5 for executing Isight simulation process flows across computing resources.

Isight provides designers, engineers, and researchers with an open system for integrating design and simulation models, created with various CAD, CAE and other software applications, to automate the execution of hundreds or even thousands of simulations. It allows designers to save time and improve designs by optimizing against performance or cost variables through statistical methods such as Design of Experiments or Design for Six Sigma.

Several SIMULIA customers presented their successful use of Isight at the 2010 SIMULIA Customer Conference (SCC), including: Baker Hughes, General Dynamics–Electric Boat, Halliburton Landmark, INERGY Automotive Systems Research, Pan Asia Technical Automotive Center, and Rolls-Royce.

In their SCC presentation, engineers from Baker Hughes, a top-tier oilfield services company, shared their experience in using Isight with Abaqus to optimize downhole expandable tubulars. “Historically, at least two months of analysis had been required to ascertain an acceptable geometry,” stated Jeff Williams, project engineer, Baker Hughes Inc. “With Isight, the development period was reduced to two days.”

Isight 4.5 provides new scalable parallel algorithms for leveraging multicore computing resources, enhanced approximation and reliability methods to evaluate product performance across a range of real-world operating variables, improvements to multi-objective optimization, and data mining which provides deeper insight into performance attribute tradeoffs.

Users of SIMULIA’s Abaqus Unified FEA will benefit from a new licensing policy that reduces the cost for using SIMULIA’s Abaqus Unified FEA in automated design studies with Isight. Using the combination of these products allows customers to reduce their Abaqus token usage as much as 60%.

“The new features and enhancements in Isight 4.5 will enable our customers to explore design options that were previously impossible, due to time and cost constraints,” stated Steve Crowley, director of product management, SIMULIA, Dassault Systèmes. “By leveraging the new parallel algorithm and optimization features in Isight combined with the distributed computing capabilities of Simulation Execution Engine, our customers will be able to evaluate more design alternatives in less time, resulting in better products at a lower cost.”

For more information visit: <http://www.simulia.com/products/isight>

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## ***D-Cubed 2D DCM Integration Wrapper for ODA's Teigha for .dwg Files (formerly DWGdirect) Now Available***

25 May 2010

An integration wrapper between the D-Cubed™ software 2D DCM (Dimensional Constraint Manager) component and Teigha™ for .dwg files is now available from Siemens PLM Software. The wrapper enables users of the Open Design Alliance (ODA) Teigha development platform to introduce the 2D DCM into their products more rapidly.

The 2D DCM solves geometric constraints and driving dimensions to provide the parametric sketching capability in many of the world's leading CAD systems, including AutoCAD® software from Autodesk, as well as Siemens PLM Software's own NX™ software and Solid Edge® software. Teigha for .dwg files offers ODA members a development framework for CAD and technical graphics applications that need to support the Autodesk DWG™ file format. Being the same solver as that used in AutoCAD, ODA members that choose to license the 2D DCM can offer their end-users the maximum compatibility with DWG files from that application.

Arnold van der Weide, President of the Open Design Alliance, stated, "The D-Cubed 2D DCM is recognized as the leading geometric constraint and dimension solver. ODA members that choose to license the 2D DCM can deliver constraint solving capabilities combined with DWG file format compatibility to their end-users through their custom applications. Several ODA members are already using 2D DCM in parallel, and I am convinced that direct integrations with applications based on Teigha for .dwg will benefit from the accelerated development that this wrapper delivers."

If you would like to learn more, please contact us at [d-cubed.sales.plm@siemens.com](mailto:d-cubed.sales.plm@siemens.com).

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## ***Mentor Graphics Calibre Co-Development of TSMC's iLVS Simplifies Modeling of Advanced Devices for Physical Verification***

27 May 2010

Mentor Graphics Corporation announced that the Calibre® nmLVS product now provides comprehensive support for the iLVS interoperable rule specification used by TSMC for new design kits. This allows customers to define and customize complex IC design rules, as needed, while maintaining compliance with TSMC specifications and allowing seamless adoption of EDA vendor performance optimizations.

The iLVS specification, which was co-developed by Mentor and TSMC, separates the rule definition syntax from underlying rule implementations. This allows Mentor to optimize the underlying implementation, reducing the need for users to tune the general rule specifications themselves. Moreover, by using iLVS in conjunction with the Calibre nmLVS Advanced Device Properties (ADP) facility, the Calibre tool users can also establish modules for device building, enabling device model

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reuse and simplifying model customization for unique parameters. Previously, such customizations required manipulation of detailed SVRF scripts.

The iLVS syntax is one of two definitions jointly developed by TSMC and Mentor Graphics: iDRC, and iLVS—for describing physical verification and layout vs. schematic (LVS) rules. In addition, Mentor is also supporting TSMC’s iRCX syntax so mutual customers have a complete set of interoperable verification solutions from Mentor. The definitions make it possible for TSMC and its customers to create verification decks that will work with the Mentor Calibre tool offerings as well as other verification products that support the specification. They also make it possible for Mentor to independently optimize the implementations to maintain performance to end users as the underlying process rules are updated by TSMC.

“The iDRC, iLVS and iRCX languages benefit both TSMC and its customers by making it possible to define and customize complex verification rules for each of our processes that can, in turn, drive verification tools from any supporting vendor,” said Tom Quan, director of EDA Alliances marketing at TSMC. “This enables us and our customers to easily adapt design rules to new requirements or special situations without worrying about tuning and testing for different tool flows. We’ve worked closely with [Mentor](#) to co-define the architecture and syntax of these specifications and have completed validation on the Calibre tool suite as our lead implementation platform.”

“Our collaboration with TSMC on the definition of iDRC and iLVS, along with support of iRCX, makes it easier for our mutual customers to implement their own IP in TSMC decks and still maintain high performance and compliance with TSMC specifications,” said Michael Buehler-Garcia, director of Calibre Design Solutions Marketing at Mentor Graphics. “With this collaboration, TSMC ensures their design guidelines are delivered in a consistent manner to all qualified vendors, and Mentor can use its proprietary technology to continue delivering industry leading verification platforms with the fastest and most efficient underlying code possible.”

The iDRC, iLVS and iRCX specifications are based on the open source TCL language extended with specialized functions for verification. They have been validated on the Calibre platform for 65nm and 40nm designs manufactured at TSMC, and will be rolled out as part of the TSMC reference flow for 28nm designs. The Calibre implementation converts iDRC, iLVS and iRCX decks into highly-tuned native Calibre SVRF calls for optimum runtime performance. It also includes an interactive TCL debugger with breakpoints and variable monitors integrated with a layout debugger, which is part of the Calibre Results Viewing Environment (RVE), and a special in-line SVRF viewer.

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## ***Project Krypton Technology Preview Now Available on Autodesk Labs***

25 May 2010

Autodesk announced that the Project Krypton Technology Preview, a plug-in that provides design engineers with advice during the early stages of designing plastic parts, is now available for download on [Autodesk Labs](#) as a free\* technology preview.

The Project Krypton Technology Preview integrates with [Autodesk Inventor](#) and [Autodesk Inventor LT](#) software and also works with SolidWorks software to support companies working in a multi-CAD environment.

In addition to under- or over-engineering plastic parts, poor design decisions often lead to costly

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redesign and retooling before manufacturers can achieve cost, quality, and manufacturability goals. The Project Krypton Technology Preview helps to reverse this trend by guiding design engineers to make better choices and evaluate alternatives when it matters the most, early in the design process.

Project Krypton Technology Preview provides designers with real-time feedback in three areas:

**Manufacturability** — The Manufacturability Indicator assesses the part after each design modification and provides real-time feedback regarding potential manufacturing concerns.

**Cost efficiency** — The Cost Efficiency Indicator assesses how changes to a design influence the overall injection mold, material choice and production costs.

**Environmental impact** — The Plastic Material Impact Indicator helps product designers understand the environmental impact of their material choices by examining characteristics such as embodied carbon, embodied energy and recyclability.

This instantaneous feedback supports designers in making better decisions earlier in the design process — helping them design more cost-effective plastic parts that can be properly manufactured, and produced with less environmental impact.

Powered by [Autodesk Moldflow](#) injection molding simulation technology, Project Krypton Technology Preview provides instant and simple feedback via design indicators embedded directly within the CAD environment. Alerts and highlighting of design features help to pinpoint design problems and provide guidance on how to resolve those problems. As a result, designers don't need extensive training or expertise to gain access to rich, detailed information that guides the manufacturing of plastic parts.

The Project Krypton Technology Preview will be available on Autodesk Labs until November 13, 2010. To download a copy, visit <http://www.autodesk.com/labs-pktp>.

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## ***Real Intent Improves Electronic Design Quality, Introduces Design-For-Test (DFT) Software***

19 May 2010

[Real Intent](#) Inc., an innovator in automating the intelligence of formal techniques for design verification, announced that it is introducing Meridian™ DFT, the newest member of its Meridian product family, to improve electronic design quality.

Meridian DFT identifies DFT trouble spots to allow designers to optimize testability during Register Transfer Level (RTL) creation, when the design impact is the greatest and the cost of modification is the lowest. It offers what-if analysis for DFT trade-offs and predicts Automatic Test Pattern Generation (ATPG) coverage of stuck-at and at-speed tests. Meridian DFT is designed to work with any ATPG or synthesis tool. It helps designers achieve high test quality and fault coverage at the RTL.

“Real Intent’s strength is in providing surgical solutions for important design verification problems,” commented Pranav Ashar, Chief Technology Officer of Real Intent. “We are introducing Meridian DFT to check the pre- and post-synthesis RTL for testability and DFT-related implementation errors. As with the other Real Intent tools, we fully expect that our recipe of marshaling formal methods, structural analysis and simulation will allow Meridian DFT to meet our customers’ needs.”

Real Intent will demonstrate Meridian DFT for the first time at the 2010 [Design Automation Conference](#) (DAC) in booth 722, in Anaheim, California.

## **Pricing and Availability**

Meridian DFT will be available in Q3 2010. For pricing information, please email [info@realintent.com](mailto:info@realintent.com).

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## ***STAR-CCM+ and Abaqus Co-Simulation Makes Seamless Fluid-Structure Interaction a Reality***

26 May 2010

[CD-adapco](#) announced that, CD-adapco's simulation tool, STAR-CCM+, now includes a direct link to Abaqus FEA from [SIMULIA](#), delivering fully coupled, two-way, fluid-structure interaction (FSI).

From the bending of a tree's branch in the wind to the flutter of an aircraft wing as it crossed the Atlantic, fluids and solids interact in harmony everywhere in the real world. However, in the virtual world of engineering simulation, the picture has rarely been quite so harmonious. Structural analysis and fluid dynamics, although intrinsically linked, have long been quite separate disciplines with the interaction between deforming structures and flowing fluids only being considered at a most basic level.

The first products available for FSI simulations were often prohibitively expensive, in terms of computer resources and timescales, and relied upon third-party inter-code communication that had to be specifically configured for each new scenario. For these reasons, the numerical simulation of FSI problems has traditionally been the preserve of research projects and academic studies, operating outside of the main engineering design process.

Not anymore. For the first time, CD-adapco's simulation tool, STAR-CCM+, will have a direct link to Abaqus FEA, delivering fully coupled, two-way, fluid-structure interaction. Using direct co-simulation coupling provides efficiency and reduced overhead associated with things such as data transfer through file exchanges or use of external middleware software. This will make coupled fluid-structure-thermal calculations a regular part of the engineering design process.

CD-adapco's partnership with SIMULIA also means that setting up and running the problem may all be done within the STAR-CCM+ environment, with no need for writing scripts and input files or mapping data. Simply point STAR-CCM+ at the Abaqus job you want to run and press "Go." The powerful physics of both codes may be leveraged in coupled FSI with STAR-CCM+'s full range of available models, providing the ability to study coupled, single and multiphase flows, chemical reaction and combustion as well as flow regimes from low speed to hypersonic. The options available in Abaqus are similarly broad, with coupled simulation supported for static stress/displacement, dynamics (implicit and explicit), heat transfer, temperature-displacement, thermal-electrical and piezoelectric analysis.

Put simply, the close-coupling between STAR-CCM+ and Abaqus brings the solution of a wide range of FSI problems within the easy reach of a typical engineer. In terms of both practicality and accuracy, co-simulation (in which both codes exchange data as they simultaneously run) is the only way to tackle problems such as aerodynamic flutter, fluid induced bending, vortex induced vibration and galloping.

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## ***Tech Soft 3D Reaches Agreement with Adobe to Develop Adobe 3D SDK Technology***

24 May 2010

Tech Soft 3D announced it has signed an agreement, subject to certain customary closing conditions,

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with Adobe Systems Incorporated to transition development and support of Adobe's 3D SDK and related technologies and associated employees and resources to Tech Soft 3D. Consisting of a 3D CAD translation suite and PDF publishing SDK, the technology allows OEM development teams to create applications that access data from over 25 popular 3D file formats, and publish rich 3D PDF files in the industry-standard PRC and U3D formats. Adobe will continue to support viewing of and interaction with 3D data within its applicable products, including the free Adobe® Reader® software. Moving forward, Tech Soft 3D will continue to make updated CAD translators available to end users as plug-ins to applicable Adobe® software for reading and outputting 3D PDF.

Upon closing of the transaction, Tech Soft 3D will maintain the existing development center in Lyon, France, which will continue to update, enhance and support the technology. For easier application integration, Tech Soft 3D plans to immediately repackage the 3D SDK and PRC publisher into pure library form.

“This CAD translation technology has long been considered best-in-class, so we're eager to provide it in pure library form to best help developers with their data access needs and to allow Acrobat users to access a broad set of CAD formats,” says Tech Soft 3D CEO, Ron Fritz. “With the growing popularity of 3D PDF as a standard for collaboration and data exchange, we anticipate that leading 3D software developers such as Anark Corp., Lattice 3D, and Kubotek will welcome the ability to publish data in the PRC and U3D formats. I'm also looking forward to Tech Soft 3D's continued participation in the ISO working group developing PRC as an open standard.”

“Tech Soft 3D has a commanding knowledge of the market and a track record of successfully managing the needs of its software customers,” says Kumar Vora, Vice President and General Manager of Adobe LiveCycle® Business. “With its many years of experience supporting the integration of 3D CAD data importers and exporters to PLM software, we're confident that Tech Soft 3D is the right partner to continue to develop the 3D translator technology that helps our customers get their valuable 3D data into PDF.”

“Anark is a leading provider of solutions for manufacturers based on Acrobat and 3D PDF, as well as a long-standing development partner with Tech Soft 3D,” says Stephen Collins, President and CEO of Anark Corporation. “We are extremely pleased to see this enabling Adobe technology entrusted in the capable hands of Tech Soft 3D.”

Tech Soft 3D has been a key Adobe reseller to the engineering software community for the Adobe PDF Library SDK since 2005. In 2008, Tech Soft 3D was named a distributor of the Acrobat 3D SDK for OEM integration of Acrobat software's 3D capabilities into CAD/CAM/CAE software.

For information on licensing the 3D SDK technology contact [sales@techsoft3d.com](mailto:sales@techsoft3d.com)

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## ***Zuken Launches Automatic Wiring Diagram Generation Tool***

18 May 2010

Zuken has introduced the [E<sup>3</sup>.Wiring Diagram Generator](#), a new tool for the automatic creation of schematic wiring diagrams as part of the [2010 version of E<sup>3</sup>.series](#), the state-of-the-art solution for wiring, harnesses, cable, fluid, hydraulics, and panel design. The new module generates schematic wiring diagrams for engineering and after-sales documentation. These are created by following user-defined design rules and using existing netlist information from a basic CSV file - tasks that would have

previously taken hours or days, now only take minutes.

## **Use in Electrical System Engineering**

Using this method, FIAT has significantly reduced their electrical architecture design cycle.

Paolo Puiatti, Engineering & Design Electrical / Electronics – Power & Signal Distribution Manager at FIAT Group Automobiles comments, "Our objective three years ago was to reduce the electrical architecture design cycle for a new car by 20%, requiring no extra resources, just improved process and product development integration. E<sup>3</sup>.Wiring Diagram Generator is proving to be instrumental in making this possible."

## **Use for After Sales Integration**

The introduction of this new module has been driven by customer demand, calling for a solution that will quickly draw a cable or wire harness system. In the automotive industry for example, electrical engineering system drawings historically had to be drawn manually for production documentation and service support, adding time and cost to the project. With this new module, an entire vehicle can be documented in just a few minutes rather than the hours or days it might take to draw the cable or wire harness system manually.

## **Use for System Migration**

E<sup>3</sup>.Wiring Diagram Generator can be used as a design migration tool by accepting CSV format connection lists, which can be created manually or extracted from older outdated wiring tools. This speeds up the creation of new documentation without the need for labor-intensive redrawing of schematics or error-prone graphic file conversions.

Using the E<sup>3</sup>.Wiring Diagram Generator, drawings can be created in the [E<sup>3</sup>.series](#) format in a standardized layout. The resulting E<sup>3</sup>.series drawings can be used as the base for modification or new projects.

The E<sup>3</sup>.Wiring Diagram Generator will be available from May 2010, contact your local E<sup>3</sup>.series sales representative for more information or visit [www.zuken.com/e3wiredgen](http://www.zuken.com/e3wiredgen)

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## ***Zuken Launches Component Manufacturer Alliance Program for E<sup>3</sup>.series***

25 May 2010

Zuken has officially launched the [E<sup>3</sup>.series Component Manufacturer Alliance Program](#) that enables users of [E<sup>3</sup>.series](#) electrical CAD software to access commercial and technical component data for thousands of parts. Members of the alliance include Siemens, U.I.Lapp, Wago Kontakttechnik and the most recently appointed HARTING Technology Group.

The component data from these companies is stored within the E<sup>3</sup>.series library, eliminating the need for users to manually enter component data into their library components, saving time and reducing potential errors associated with manual data entry.

From the large selection of component data in the various manufacturer databases, a user-specific library can be created quickly and easily using E<sup>3</sup>.series. The time consuming process of searching for

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components and looking through data sheets is avoided. Users can find the required component more quickly with the correct commercial and technical data.

"Within the scope of the E<sup>3</sup>.series Component Alliance Program we are now able to make the data of our components accessible to our customers. We welcome the opportunity to make our contribution to a more rationalized optimized and shorter development process by using the benefits (or data) of our innovative product portfolio," said Hartmut Schwettmann, managing director of HARTING Electric, part of the HARTING Technology Group.

HARTING components are used widely in the railway and transportation, mechanical and plant engineering, factory automation, power generation and distribution, along with industrial electronics and telecommunication sectors. These industries represent a significant proportion of the E<sup>3</sup>.series customer base.

Access to this component information is free of charge for E<sup>3</sup>.series users with current software maintenance. For more information visit [www.zuken.com/e3series-component](http://www.zuken.com/e3series-component)



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