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## CIMdata News

### ***Avoid Drowning in a Deluge of Simulation Data: The Case for Simulation Analytics: a CIMdata Commentary***

9 August 2012

#### *Key takeaways:*

- *The increasing volume of simulation data is overwhelming analysts' capacity to find the useful information contained within it.*
- *Simulation analytics refers to both the process and the tools for extracting useful information from large amounts of simulation data.*
- *Simulation analytics can be applied to enrich information and reduce the volume of data, to compute simulation metrics, and to enable important data to be retained and archived.*
- *CIMdata is tracking the development and adoption of several promising new Simulation Analytics applications; we consider Tecplot Chorus to be noteworthy.*

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As companies move to digital product development, the role of simulation (computer-aided engineering) rises in importance. Indeed, with the shift to model-based and simulation-driven design, the role of simulation is evolving rapidly. Leading users now leverage simulation to help create product concepts—to optimize designs to best meet competing or conflicting requirements and to create robust designs whose performance is less sensitive to variations in manufacturing processes or customer usage.

Simulation is no longer used solely to evaluate a single, nominal design that typically requires only a few runs of a particular simulation application. Now simulation is being used in statistics-based assessments and optimizations involving hundreds or thousands of runs. The sheer volume of data generated in these kinds of studies can overwhelm available resources. To realize the true value of simulation, innovative approaches to deal with the resulting flood of data are required.

Beyond simply the volume of data, the problem has two other important components: First, the meaningful information content in simulation output files is generally quite sparse, so the “interesting” results can be hard to find among all the data. Second, our ability to process (i.e., read) the data is improving far less quickly than our capability to generate and store it.

Technical computing capability to generate data doubles every eighteen months (following Moore’s Law). Disk capacity doubles every twelve months (Kryder’s Law). By contrast, data transfer rates (disk I/O speed) double only every 36 months. Considering these issues, *Simulation Analytics* is required. Simulation Analytics refers to both the process and tools that will:

- Enrich the information content (and perhaps dramatically reduce the volume of data that needs to be stored and retained).
- Compute CAE-specific metrics.
- Find or enable the user to find “interesting” features across multiple runs and projects.
- Provide the data in a form that can realistically be retained and archived.

As with other “big data” problems, in many simulations the location and nature of interesting results are not known ahead of time. In addition, simulation has unique metrics that often need to be calculated as a prelude to post-processing. Analytics can require extensive computing power, and data visualization is required to present and aid in the comprehension of results.

One of the most challenging disciplines for which to interpret results is fluid flow, or computational fluid dynamics (CFD). Small changes in conditions or geometry can cause large changes in the flow. The relevant interesting features of the solution occur in the interior of the domain. (By contrast, for solid mechanics, the solution extremes almost always occur on the surface of the domain.) Simple metrics and standard reports may fail to reveal important flow differences between cases. At the same time, it is not possible to manually examine thousands or even hundreds of cases. Analytics is an obvious application to mitigate these issues.

Simulation analytics is not just more of what users are already performing routinely with standard post-

# CIMdata PLM Industry Summary

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processing. Analytics should enrich the data to increase the information content, and it should also aid in identifying salient artifacts not only in a single result, but also in the differences across hundreds of results. By extracting and retaining the most relevant information, analytics can dramatically reduce the amount of data to be retained.

A number of applications and technologies on the market today demonstrate parts of CIMdata's vision for simulation analytics. Some data managers extract key results as metadata. Some utilities compress large files. Some post-processors are able to generate standard reports for different simulation cases, for example, process automators that orchestrate DOE studies for robust design can display parameter trades in terms of gross or scalar results metrics.

While there are a few applications and technologies on the market today that enable parts of CIMdata's vision for simulation analytics, there is one product, Tecplot Chorus, that provides an analytics framework for CFD that fulfills much of the vision described herein. Tecplot Chorus is from Tecplot, Inc., a Bellevue, Washington company that focuses on delivering visualization software for engineers and scientists to analyze, discover, and communicate results. In many ways, Tecplot Chorus is a result of Tecplot's realization that often the most interesting and useful information is lost within the reams of data that are expelled during a simulation analysis exercise. Fundamentally, Tecplot Chorus provides a framework for engineers to evaluate the flow physics across systems of results with ties to the integrated quantities that describe the gross physical behavior. By evaluating results in context, engineers can identify anomalies in their results quickly, allowing them to make more informed decisions earlier in the design process.

Industrial companies have made substantial investments in improving their simulation capability, and are now able to generate immense amounts of data in statistics-based studies of product performance. Analytics tools to deal with this data deluge are required. Tecplot Chorus is an example of an application that deals with the data while acknowledging (and retaining) the complexity of the information. If the information is not extracted and understood, it is wasted. At worst, incorrect conclusions based on simple metadata metrics may lead to rework and delays, if not to product performance failures and increased liability risks. The latter is especially important if the relevant data and correct solutions to guide decision making were all present from the beginning, but got lost or drowned out in the flood of other data that would be recovered with a forensic failure analysis by either engineering or legal teams.

## **About CIMdata**

CIMdata, an independent worldwide firm, provides strategic management consulting to maximize an enterprise's ability to design and deliver innovative products and services through the application of Product Lifecycle Management (PLM). CIMdata provides world-class knowledge, expertise, and best-practice methods on PLM. CIMdata also offers research, subscription services, publications, and education through international conferences. To learn more about CIMdata's services, visit our website at <http://www.CIMdata.com> or contact CIMdata at: 3909 Research Park Drive, Ann Arbor, MI 48108, USA. Tel: +1 734.668.9922. Fax: +1 734.668.1957; or at Oogststraat 20, 6004 CV Weert, The Netherlands. Tel: +31 (0) 495.533.666.

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## ***CIMdata Announces New Survey to Consider the Aerospace and Defense Industry's "PLM Value Gap"***

8 August 2012

CIMdata, Inc., the leading global Product Lifecycle Management (PLM) management consulting and research firm is conducting a survey to better understand the reasons and remedies for the widening divide between PLM technology potential and its implementation realities within aerospace and defense (A&D) companies.

CIMdata's research in the A&D industry reveals heavy investment in PLM, but with only a few exceptions, uninspiring results. Most A&D companies were early adopters of PLM and the technology necessary for its implementation. On balance this investment has yielded some of the most advanced and productive engineering environments in any industry. However, in most cases beyond engineering, the environment falls far short of the vision—process and information flow is still largely fragmented, and information systems are layered with complexity and redundancy. In fact, there is a widening gap between PLM technology capability and the perceived value of its actual implementation.

In conducting this survey CIMdata is seeking insight from practitioners in A&D companies with experience implementing and using PLM strategies and enabling technologies. According to CIMdata's A&D Practice Manager, James L. Roche, "CIMdata is interested in deepening its collective understanding of the drivers and preconditions for achieving breakaway value from investment in PLM implementations."

The survey takes about 15 minutes to complete and respondents will be provided with CIMdata's analysis and insight regarding: the nature of the widening gap between PLM technology capability and the value of actual implementations within A&D companies, the barriers that constrain the rate of value from PLM implementations for most A&D companies, and the drivers and preconditions that will allow some A&D companies to overcome these barriers and achieve breakaway value from PLM implementations. Responses will be held in the strictest confidence and will not be attributed to any person or company.

Those wishing to take part in the survey may do so

at: <http://www.esurveyspro.com/Survey.aspx?id=d01ca5fd-66b8-4909-8e15-9be3acdeaf9c>

### **About CIMdata**

CIMdata, a leading independent worldwide firm, provides strategic management consulting to maximize an enterprise's ability to design and deliver innovative products and services through the application of Product Lifecycle Management (PLM) solutions. Since its founding in 1983, CIMdata has delivered world-class knowledge, expertise, and best-practice methods on PLM solutions. These solutions incorporate both business processes and a wide-ranging set of PLM-enabling technologies.

# CIMdata PLM Industry Summary

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CIMdata works with both industrial organizations and suppliers of technologies and services seeking competitive advantage in the global economy. In addition to consulting, CIMdata conducts research, provides PLM-focused subscription services, and produces several commercial publications. The company also provides industry education through PLM certificate programs, seminars, and conferences worldwide. CIMdata serves clients around the world from offices in North America, Europe, and Asia-Pacific. To learn more about CIMdata's services, visit our website at [www.CIMdata.com](http://www.CIMdata.com) or contact CIMdata at: 3909 Research Park Drive, Ann Arbor, MI 48108, USA. Tel: +1 (734) 668-9922. Fax: +1 (734) 668-1957; or at Oogststraat 20, 6004 CV Weert, The Netherlands. Tel: +31 (0) 495 533 666.

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## ***Tristan Gegaden, Head of Operations for the EADS PLM Harmonization Center to Keynote at CIMdata's PLM Road Map™ 2012***

9 August 2012

CIMdata, Inc., the leading global Product Lifecycle Management (PLM) management consulting and research firm announces that Tristan Gegaden, Head of Operations for the EADS PLM Harmonization Center, will make a keynote presentation at PLM Road Map™ 2012. The keynote lineup also includes presentations by automotive expert Dr. David E. Cole, Georgia Institute of Technology's Professor Dimitri Mavris, and Dana Holding Corporation's Frank Popielas. PLM Road Map 2012 will take place at the Inn at St. John's, outside of Detroit, on October 2 and 3.

While looking for new areas of productivity, competitiveness, and innovation, EADS—the European Aeronautic Defense & Space Company—identified in early 2007 the need to raise PLM to the strategic level of the Group. This change in emphasis was necessary both to avoid any industrial disaster and to accelerate adoption of the new paradigm of increasing collaboration between dispersed engineering, manufacturing, and services locations. From that point forward PLM has been regarded as a strategic asset for EADS, an asset that is firmly rooted at the core of a lean industrial system. A significant driver for this harmonization is standards, which enables PLM interoperability throughout the extended enterprise. The harmonization of PLM across all the divisions and business units of EADS came to be known as the PHENIX (PLM Harmonization for Enhanced Integration and Excellence) programme.

In his keynote presentation, “Why PLM is Strategic: The Example of EADS/PHENIX,” Tristan Gegaden will consider best practices related to large-scale PLM program governance, as experienced in the widely acclaimed PHENIX programme.

PLM Road Map is the must-attend event for industry executives and PLM practitioners globally—providing independent education and a collaborative networking environment where ideas, trends, experiences, and relationships critical to the industry, germinate and take root. It is a strategic conference focused on how companies are successfully employing PLM strategies and enabling solutions to meet challenging product development, manufacturing, and deployment issues. PLM Road Map 2012 is a two-day event that will challenge attendees to shift their current thinking to a new level,

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through presentations focusing on the global transformation of product development and innovation processes. PLM Road Map is the leading international event that helps companies leverage cross-disciplinary and cross-industry knowledge and feedback to smooth and speed their PLM journey. For more information on PLM Road Map 2012, visit our website

at: [http://plmforesight.cimdata.com/index.cfm?content=include\\_conference12.cfm](http://plmforesight.cimdata.com/index.cfm?content=include_conference12.cfm)

## **About Tristan Gegaden, Head of Operations for the EADS PLM Harmonization Center**

Tristan Gegaden has ten years of experience working in PLM in the aerospace and defense, and shipbuilding industries. He currently heads up the Operations of the EADS PLM Harmonization Center, coordinating a dozen PLM harmonization initiatives between EADS' Airbus, Eurocopter, Astrium, and Cassidian divisions.

Tristan has gained key competencies through the execution of PLM projects across engineering, customer support, and manufacturing engineering domains; fostering business improvement and innovation in the PLM area; and coordinating the implementation of business-enabling information technology.

Tristan holds a master's degree in Management from the Grande Ecole ESSCA and a specialized master's degree in Innovation and Management of Technology from Ecole Centrale in Paris.

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CIMdata works with both industrial organizations and suppliers of technologies and services seeking competitive advantage in the global economy. In addition to consulting, CIMdata conducts research, provides PLM-focused subscription services, and produces several commercial publications. The company also provides industry education through PLM certificate programs, seminars, and conferences worldwide. CIMdata serves clients around the world from offices in North America, Europe, and Asia-Pacific. To learn more about CIMdata's services, visit our website at [www.CIMdata.com](http://www.CIMdata.com) or contact CIMdata at: 3909 Research Park Drive, Ann Arbor, MI 48108, USA. Tel: +1 (734) 668-9922. Fax: +1 (734) 668-1957; or at Oogststraat 20, 6004 CV Weert, The Netherlands. Tel: +31 (0) 495 533 666.

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## Acquisitions

### *Infor Acquires Group Laurier to Expand Services to Distribution Industry*

8 August 2012

Infor announced the acquisition of longtime channel partner Le Groupe Laurier CIM Inc. / Laurier CIM Group Inc. (known as Group Laurier), a reseller of [Infor10 Distribution Business \(SX.e\)](#) to the Distribution market in Canada. Based in Montreal with additional operations in Toronto, Group Laurier has 70 customers and 30 employees.

#### News Points

- The acquisition of Group Laurier strengthens Infor's relationship with Infor10 Distribution Business (SX.enterprise) customers in Canada by creating a 100-percent direct relationship with them. Software, support and services are now provided directly by Infor. Infor can now better manage strategic customer relationships and provide more guidance, value and direct access to Infor innovation.
- Existing Group Laurier customers will experience no disruption in their support, and will be able to take advantage of Infor's award-winning [Xtreme Support](#).
- The acquisition of Group Laurier is a sound, practical business transaction for Infor and creates new opportunity in Canada, adding strong consulting resources in Canada and specific expertise in the French Canadian market. In addition, Group Laurier has completed all French Canadian localizations and translations for Infor10 Distribution (SX.e).

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### *PTC to Acquire Servigistics*

8 August 2012

PTC today announced it has signed a definitive agreement to acquire Servigistics, Inc., developer of a suite of service lifecycle management (SLM) software solutions, for approximately \$220 million in cash. Pending regulatory approval and satisfaction of other customary conditions, the transaction is expected to be completed in September 2012.

The acquisition will greatly enhance PTC's existing portfolio of SLM solutions which, today, includes robust capabilities in the areas of warranty and contract management, service parts definition, and technical information – including mobile delivery. Servigistics is recognized as a technology leader in complementary areas such as service parts planning, management and pricing, field service management, returns and repair management, and service knowledge management. In combination, the solutions will dramatically accelerate PTC's ability to help discrete manufacturers transform their service strategies and operations into a true source of sustainable competitive edge – what PTC describes as “service advantage.”

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“Over the past few years, Servigistics has earned a reputation for innovation in helping companies maximize their global service businesses through increased profitability, cash flow, and customer loyalty,” said PTC president and CEO Jim Heppelmann. “Their customers are at the leading edge of a global trend to take service from a cost center to a profit center, and SLM technology has been a critical driver. This acquisition should make clear just how serious PTC is about helping its customers achieve lasting service advantage.”

For leading manufacturers, getting their service strategy right presents a multi-billion dollar, high-margin revenue opportunity to differentiate themselves in the market from their traditional product-oriented competitors. As an enabling technology, SLM helps manufacturers and their service network partners optimize the customer experience by ensuring service is systemically planned, delivered, and analyzed to continually improve performance and maximize customer value. Yet, few manufacturers have either a coordinated strategy or the integrated technology suite needed to capture this new market opportunity – with many manufacturers realizing as little as 25% of the total service value in their products’ service lifecycle.

PTC has long been known for its technology solutions that optimize the way companies create products. With this acquisition PTC will significantly expand how it helps companies service those same products. In fact, starting with the acquisition of Arbortext in 2005, PTC has been developing solutions that enable manufacturers to plan and analyze service based on how their products are designed and built. This service-focused strategy has driven PTC to deliver specialized solutions that are the result of innovative technology development combined with capabilities gained through the acquisition of companies such as ITEDO, LBS and 4CS. By adding Servigistics to this portfolio, PTC will be able to deliver a complete system for service – providing market-leading capabilities across all key components of the service lifecycle.

With Servigistics, PTC’s SLM solutions will provide global manufacturers with a real-time, single view into the extended service environment to identify and respond to areas for improvement, opportunities for new business, and risks to avoid. Only with a connected service network – supporting the owner/operator, distributor, dealer, service partner, field service force, repair depots, and warranty desk – can the OEM plan, deliver and analyze all necessary resources to ensure that service performance and overall value is meeting or exceeding their customers’ expectations. In addition, this acquisition further enhances PTC’s ability to help customers gain competitive advantage throughout the entire product lifecycle – from conception and design to sourcing and service.

“At Servigistics, we share PTC’s vision for helping to transform the way companies execute their service strategies,” said Eric Hinkle, Servigistics president and CEO. “We anticipate that our clients will reap great benefits from the synergies of this shared vision and are pleased to help PTC secure a strong technology and thought leadership position in SLM.”

Over the past 12 months, privately-held Servigistics generated approximately \$80 million in revenue. In connection with this acquisition, PTC is increasing its previous preliminary FY’13 non-GAAP EPS

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target of \$1.70 to \$1.80 by a range of \$0.02 to \$0.05. PTC expects to draw on its credit facility to finance this transaction.

RBC Capital Markets Corporation is acting as financial advisor to PTC. Blackstone Advisory Partners L.P. is acting as financial advisor to Servigistics and its owner Marlin Equity Partners.

### **PTC to Hold Investor Call at 8:30 a.m. ET TODAY - August 8, 2012**

PTC management will host a conference call to discuss this acquisition.

**What:** PTC to acquire Servigistics Conference Call  
**When:** Wednesday, August 8, 2012 at 8:30 a.m. (ET)  
**Dial-in:** USA: 1-800-857-5592 or 1-773-799-3757  
Call Leader: James Heppelmann  
Passcode: PTC

**Webcast:** [www.ptc.com/for/investors.htm](http://www.ptc.com/for/investors.htm)

Replay: The audio replay of this event will be archived for public replay until 4:00 pm (CT) on August 18, 2012 at 1-800-964-1213. To access the replay via webcast, please visit [www.ptc.com/for/investors.htm](http://www.ptc.com/for/investors.htm)

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## Company News

### ***Actify Joins the Automotive Industry Action Group as a Member***

7 August 2012

Actify Inc. today announced that the company has become a member of the Automotive Industry Action Group (AIAG). Based in Southfield, Michigan, the not-for-profit association is an organization where members from a diverse group develop recommendations and a framework for the improvement of quality in the Automotive Industry.

"We fully support the mission of the AIAG," said Chris Jones, President and CEO of Actify. "Since a majority of our customers are within the Automotive Industry, it is important for us to be a member of this association so we not only hear about new regulations, standards, and requirements, but have the ability and opportunity to help shape them."

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Companies that are members of the AIAG donate the time of volunteers to work in a non-competitive, open forum with the intent to develop guidelines, recommendations, and best practices for the overall good of the industry. Over 650 industry volunteers provide subject matter expertise to AIAG initiatives.

## **About AIAG**

AIAG is a unique not-for-profit organization where, for 30 years, OEMs, suppliers, service providers, government entities and individuals in academia have worked collaboratively to drive down costs and complexity from the supply chain via global standards development and harmonized business practices. AIAG membership has grown to include preeminent OEMs, such as Caterpillar, Chrysler Group LLC, Ford Motor Co., General Motors Co., Honda of America, Navistar International, Nissan, Toyota, and many of their parts suppliers and service providers. For more information, visit [www.AIAG.org](http://www.AIAG.org).

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## ***Advanced Solutions Earns Autodesk Product Support Specialization***

5 August 2012

Advanced Solutions, Inc., today announced that it has earned the new Product Support Specialization designation for VARs from Autodesk, Inc. As an Autodesk Specialized Partner, Advanced Solutions has shown that they have made significant investment in their people, have a solid business plan specific to their specialization area, have customer references, and can provide offer a high level of experience and support to customers in the Architecture, Engineering, Construction (AEC) industry.

The new Autodesk Partner Specializations enable VARs to highlight and brand their expertise in delivering services in key industry areas. By completing the required curriculum and training, as well as meeting required levels of service and standards set by Autodesk, Advanced Solutions demonstrates through their strong customer service and support in sales what it means to be a trusted adviser to Autodesk customers throughout the world.

“Our employees have worked hard to attain a level of product support knowledge and expertise, setting a standard within our industry,” said Michael Golway, Advanced Solutions President & CEO. “This designation reflects their outstanding efforts to provide our customers with continued up-to-the-minute product support.”

## **About Advanced Solutions**

Advanced Solutions is an award winning Autodesk Platinum Partner with 2D and 3D design software enterprise integration expertise in architecture, engineering, construction (AEC), civil engineering and advanced manufacturing. The company is Autodesk OEM Authorized, bringing added value to customers through certified software customization and business systems integration with the Autodesk Technology Platform. As an Autodesk Authorized Training Center (ATC), the company offers a variety of innovative training solutions including its popular PILOT program. Since 1987, the company has focused its business model on helping customers realize industry leading return on investment with their 2D and 3D design software. Beyond the box of software, Advanced Solutions helps customers gain a competitive advantage through innovative design software work flows, enabling customers to realize

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higher revenues and improve their operational efficiency. For additional information about Advanced Solutions, Inc., please visit their website at [www.AdvancedSolutions.com](http://www.AdvancedSolutions.com).

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## ***Altair Launches Automotive Industry's First Award Dedicated to Light-weighting***

6 August 2012

[Altair](#) today announced the automotive industry's first award program created specifically to acknowledge innovations in vehicle light-weighting, thereby improving fuel economy and performance. Altair is a global provider of simulation technology and [engineering services](#) to the world's automakers and their supply base, in addition to having significant presence in the aerospace, consumer goods, energy and marine industries.

The inaugural Altair Enlighten Award (#AltairEnlighten), presented in collaboration with the Center for Automotive Research ([CAR](#)), will recognize achievements in weight reduction across the automotive industry from motorcycles to passenger cars, light-trucks to commercial vehicles and buses. Achievements demonstrating the merits of a mixed material lightweighting solution will be encouraged.

The award aligns with the goals of CAR's Coalition for Automotive Lightweighting Materials ([CALM](#)) initiative. The purpose of the CALM initiative is to support the cost-effective integration of mixed materials to achieve significant reductions in vehicle mass through the collaborative efforts of the material sectors and auto manufacturers. The award will be open to original equipment manufacturers (OEMs), systems/parts suppliers and materials suppliers from all automotive industry segments.

"Altair's computer-aided engineering software solutions are employed across the globe to optimize vehicles, systems and components for weight savings and improved performance," said Tony Norton, senior director of global automotive for Altair. "Weight reduction can be combined with any fuel economy technology to increase efficiency gains. Automakers and their supply base are striving to reduce material usage and fuel consumption while improving vehicle performance and safety through weight reduction techniques. The Altair Enlighten Award provides a platform to showcase the success stories, allowing industry leaders to be recognized by their peers and emphasizing the need to achieve the next level of light-weighting technology."

The objectives of the Altair Enlighten Award are to:

- Honor the greatest achievements in weight saving each year
- Inspire interest from policymakers, educators, students and the general public in the environmental impact, technical depth and diversity of weight saving innovations
- Create further competition for new ideas within the industry
- Provide an incentive to share technological advances

"By recognizing practical examples of lightweighting solutions, Altair's Enlighten Award will inspire

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innovation which will help manufacturers achieve aggressive fuel economy targets established by the government," said Dr. Jay Baron, president & CEO of the Center for Automotive Research and director of CALM.

Manufacturers and suppliers interested in submitting a nomination will be able to access additional information about the nomination process on the [Altair Enlighten](#) website Oct. 1, 2012. The purpose of [www.AltairEnlighten.com](#) is to provide a global knowledge source for useful, informative and inspirational content focused on minimizing the weight of products across industries through innovative design techniques, materials technology and manufacturing processes; improving industry best practices to respond to the challenges of mass management and meeting fuel economy targets, both government and competitive; and addressing increasing vehicle safety requirements. To allow sharing of innovation to further this goal, while respecting the business and technical confidentiality of all applications, designs submitted must be implemented on a production vehicle produced between August 2012 and August 2013, with no geographical restrictions.

Applications for the 2013 Altair Enlighten Award will be accepted from Nov. 1, 2012 to Jan. 31, 2013. Finalists will be interviewed in February and March 2013. Winners will be announced in August 2013. The judging panel for the award will be formed with industry and academic leaders as well as CAR and Altair representatives.

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### ***Applied Engineering Earns Autodesk Simulation Specialization***

10 August 2012

Applied Engineering, an authorized value-added of Autodesk products, today announced that it has earned the new Simulation Specialization designation for value added resellers from Autodesk, Inc. As an Autodesk Specialized Partner, customers are assured that Applied Engineering can provide the high level of technical expertise and support required to win in today's ever-changing manufacturing industry.

The new Autodesk Partner Specializations enable value added resellers to highlight and brand their expertise in delivering services in key industry areas. By completing the required curriculum and training, as well as meeting required levels of service and standards set by Autodesk, Applied Engineering demonstrates through their strong customer service and support in sales what it means to be a trusted adviser to Autodesk customers throughout the world.

"I'm proud of Applied Engineering's sales and technical team for dedicating the time required to meet this specialization standard," says Dave Elliott, director of Autodesk sales and support at Applied Engineering. "Our customers can be assured that we will continue to invest in our employees in order to meet their challenges."

Applied Engineering, Inc. provides engineering and technology services and products to customers throughout the United States. Applied Engineering is 100 percent employee-owned and has offices in North Dakota, South Dakota, Minnesota, Wisconsin and Texas.

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## ***Bentley and CABRTech Sign Memorandum of Understanding to Advance BIM Software Interoperability in China***

8 August 2012

CABR Technology (CABRTech) Co., Ltd., and Bentley Systems, Incorporated, have signed a memorandum of understanding (MOU). The MOU establishes a long-term partnership between the two companies to advance building information modeling (BIM) software interoperability in China. As a first step towards this goal, CABRTech will facilitate data exchange between its PKPM structural design products and Bentley software. This initiative will provide increased information mobility among the users of PKPM software and all Bentley Integrated Structural Modeling (ISM)-enabled products, including AECOsim Building Designer – streamlining BIM workflows and resulting in increased productivity and enhanced project quality.

Under the MOU, CABRTech and Bentley also will:

- Initiate an in-depth study and collaboration to research the development of BIM software that addresses the needs of China’s engineering and construction industry, including a product portfolio spanning the infrastructure lifecycle, from design and energy consumption analysis to construction and operations;
- Explore the feasibility of cooperation in the field of application research and software development, including directed and syndicated development projects;
- Consider cooperation in other fields, including the development of joint software training, marketing programs, and other activities that will be of benefit to both CABRTech and Bentley.

Commenting on the new partnership, Mr. Xu Jiefeng, president of CABRTech, said, “Bentley is a company with strong and comprehensive capabilities. Our new MOU with Bentley is a landmark in mutual understanding and trust, and lays the groundwork for broad and in-depth cooperation between our two companies in technology, product, and business areas. We believe the cooperation can be a strong impetus to drive new technology development in China’s engineering and construction industry.”

Dr. Jean-Baptiste Monnier, senior vice president, Bentley Asia-Pacific, said, “We look forward to working with the innovative CABRTech team on important initiatives that will help take BIM workflows in China and elsewhere to a new level of productivity. Our goal is to empower structural practitioners across this region to choose the software they need for each project task while benefiting from the effectiveness of data reuse as they participate in multidisciplinary, integrated workflows. This will enable them to take full advantage of BIM best practices to reap significant business benefits and result in intelligent structural design, more successful projects, and better-performing buildings and structures of all types.”

For additional information about CABR Technology, visit [www.cabrtech.com](http://www.cabrtech.com).

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## ***BIM Leader Cadsoft Corporation Announces Partnership with BIMage Consulting Pte Ltd***

8 August 2012

Cadsoft Corporation today announced a distribution partnership with BIMage Consulting Pte Ltd, a provider of BIM solutions headquartered in Singapore for the Architecture, Engineering and Construction industry across Asia.

The partnership further extends the global presence of Cadsoft's BIM solution, Envisioneer™. Version 8, the latest release of this software, brings powerful advancements to the rapidly-evolving field of BIM including strategic design enhancements, precision documentation, and productivity gains in on-screen quantity takeoff. As this latest release accelerates Cadsoft's mission to deliver the easiest to use, most complete BIM solution for the residential design, construction, and building materials supply chain, the partnership with BIMage will introduce the product to a well-established client base in the AEC industry already using BIMage's consulting programs.

Brad Finck, Cadsoft's Vice President of Business Development says "BIMage is the ideal partner for growing Envisioneer's market share across the APAC region. With their wealth of experience in the BIM and CAD marketplace, combined with strategic distribution offices in Singapore and throughout Asia, we are very excited to be working with BIMage to expand and deliver our technology worldwide."

Ajith Menon, BIMAGE CEO adds, "As BIM get adopted in AEC disciplines, there will be a need for all the building design professionals including landscape architects, interior design professionals and renovation contractors to adopt this technology and extract the benefit of BIM to maintain the level of service for their clients. Envisioneer is a very cost effective and easy to use BIM solution for everyone!"

Visit [www.cadsoft.com](http://www.cadsoft.com) for more information.

### **About BIMAGE Consulting Pte Ltd**

BIMAGE is a Building Information Modeling (BIM) and Project Information Management (PIM) consultancy firm based in Singapore and is the BIM Consulting arm of DES Group of Companies, a leader in GeoSpatial and Engineering Content Creator & Consulting provider in Asia Pacific. BIMAGE provide strategic consulting services to building design professionals, contractors and owners seeking to move up the value chain from the traditional project delivery methods through technology-driven process innovation. For more information, please visit [www.bimageconsulting.com](http://www.bimageconsulting.com)

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## ***Edgcam Announces New Reseller***

8 August 2012

Edgcam has announced a reseller partnership with TST Tooling Software Technology, headquartered in Clarkston, MI. TST will sell and support Edgcam's full suite of CAM production machining products through their locations in Michigan, Illinois, Ohio, Arizona, Connecticut, Oklahoma and Ontario.

TST, founded in 2001, is currently the North American Master Distributor of VISI software by Vero International, a CAD/CAM/CAE software developer and Edgcam's parent company. With 145 years of combined experience, the team at TST has engineers who understand their clients' business through experience.

Commenting on the new partnership, Edgcam Channel Manger Domenic Lanzillotta says, "We are pleased to have TST Tooling Software represent Edgcam. Edgcam complements TST's existing Vero specialty software offerings, as it will provide additional solutions for the milling and turning production markets. We are very excited about their knowledge of the manufacturing industry and their ability to provide a total design to manufacturing solution."

TST has built its business around making sure its users are 100% knowledgeable on the products they invest in; consistently analysing and updating software solutions. TST has an extensive user base that is benefiting from this expertise and experience. "We are positive that this same level of customer service and satisfaction will now extend into the Edgcam family of products" says Jim Kesteloot. "By adding the Edgcam product this will allow TST to offer a "World Class" Solution to the production machining industry. Edgcam also gives us a much needed Lathe / Lathe with live tooling solutions to offer to our existing customer base as well as taking us into new markets."

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## ***FM:Systems Continues Global Expansion with Geomap Facilities Partnership***

8 August 2012

FM:Systems today announced continued global expansion, signing on partner Geomap Facilities, specializing in delivering geographic information systems (GIS), Web mapping, geospatial solutions, building information modeling (BIM) and CAFM implementations to customers across France, Luxembourg and Belgium.

Geomap Facilities is a parent company of Montreal-based Geomap GIS America, a company that became an FM:Systems partner last year, enabling customers to connect BIM data throughout the design, construction, renovation and operation phases of a building's lifecycle – Lifecycle BIM. As an Autodesk AEC Industry Partner, FM:Systems offers a direct integration with Autodesk® Revit® Architecture software from its FM:Interact Workplace Management Suite. This improves

# CIMdata PLM Industry Summary

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communication and collaboration between stakeholders as a building evolves.

To meet both partners growing customer base demands, all the modules in FM:Interact are now available in French. Joint FM:Systems and Geomap Facilities customers already signed on to use FM:Interact include Deloitte Luxembourg and Ferrero Luxembourg.

“Partnering with FM:Systems means we are offering our customers best-in-class facility management and BIM solutions,” said Filipe Alves, FM:Systems product manager at Geomap Facilities. “We found their Web-based platform easy to use and the availability in French meets our customers' needs. As we start to implement and see the benefits of BIM, the customization, workflow, and reporting capabilities will make the transition seamless and give our customers a true 360-degree view of the facility.”

“We’re pleased to extend the benefits of our technology to our international customers and partners, specifically Geomap Facilities, Deloitte Luxembourg and Ferrero Luxembourg,” said Kurt von Koch, vice president of sales and marketing for FM:Systems. “Offering FM:Interact in French is just another step in expanding our global footprint, and we look forward to serving many more international organizations.”

## About Geomap Facilities

Geomap Facilities specializes in geographic information systems (GIS), web mapping, geospatial solutions, BIM and CAFM implementations for industries such as municipalities, building owners and real estate managers, transportation and infrastructure network management. Geomap Facilities is an Autodesk partner specialized in architecture engineering and construction with solutions implemented in public institutions, as well as private companies around the world. Geomap Facilities team manages the complete project lifecycle from software implementation, consulting and professional services, to the training and support of the users. Geomap Facilities is headquartered in Luxembourg with offices in France and Belgium. For more information, visit [www.geomapfacilities.com](http://www.geomapfacilities.com).

For more information about FM:Systems, please visit [www.fmsystems.com](http://www.fmsystems.com) or call 1-800-648-8030.

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## ***Geomagic Expands Executive Management Team after Record FY 2012***

9 August 2012

[Geomagic](#)® today announced promotions and appointments to its executive team, following record sales during the fiscal year which ended June 30, 2012. These include the promotion of Tom Kurke, the company's chief operating officer to the position of president and COO; the promotion of Len Chamberlain from sales director to vice president of worldwide sales; and the appointment of Joan Lockhart, who joined Geomagic via the company's April acquisition of the Sensable® 3D design and haptics businesses, to vice president of marketing. Additionally, Karl Matthews, formerly vice president of product management will serve as vice president of the newly acquired Sensable Group from its

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offices in the Boston area.

Ping Fu, Geomagic's co-founder, continues as the CEO and will expand her role in the 3D technology industry, her national service fostering entrepreneurship, such as the White House National Advisory Council on Innovation and Entrepreneurship, the National Council on Women in Technology, and serve as a spokesperson on breakthrough technologies in sensor-enabled 3D digital reality and the makers' movement. At a time when the additive manufacturing industry is experiencing "accelerated growth" and longstanding gaps in the digital workflow are being streamlined, the executive appointments give Geomagic an exceptional foundation from which to capture expanding market demand and to deliver transformational solutions.

"I am incredibly pleased with the leadership team we have built at Geomagic, one with diverse talents and skills, and proven understanding of the challenges and the opportunity facing our users and the industry," states Ping Fu, CEO. "In the last three months, our teams not only delivered exceptional performance and value for Geomagic's scanning and metrology solutions, they also have successfully integrated Sensable's 3D modeling and haptic businesses, which resulted in growth for the Sensable business, good will with employees, customers and partners, and tremendous momentum. The new leadership team will position us for greater performance in the coming years as we develop new products that will democratize 3D capture, modeling and interaction. The challenge is no longer about access to data; it is about extracting intelligence from it and doing smart things with it to benefit humanity."

Biographies of the entire Geomagic management team are available on the Company's [website](#).

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## ***IMS and Geometric Partnership to Help Reduce Total Cost of Ownership for Machining Houses***

7 August 2012

IMS Software, developer of IMSpost for CNC postprocessing and IMSverify for CNC verification and simulation, today announced that they have entered into a software licensing agreement with Geometric. Geometric will license IMSverify technology from IMS to provide G-code verification and machine simulation within CAMWorks®, its parametric, knowledge-based CNC machining software.

“Our customers can look forward to a superior NC programming experience with the ability to seamlessly, yet independently, verify the G-code in CAMWorks before running it on the machine”, said Sameer Kondejkar, Sr. Director and Business Unit Head of GTS. “The partnership with IMS further reiterates Geometric’s commitment of bringing the latest in technology to help customers save time and money in their day-to-day operations. We encourage the machining community to visit us as IMTS 2012 to sneak a preview of the enhancements.”

"IMS is delighted to partner with Geometric" said Dan Wrenn, president and co-founder of IMS. "This

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relationship will bring unique features to CAMWorks and provide their customers with the most advanced capabilities for G-code prove-out."

## About IMS

IMS Software, Inc., founded in 1989, is a provider of NC postprocessing, verification and simulation solutions and services to companies seeking a competitive advantage in the manufacturing industry. With headquarters in Haverhill, MA, IMS solutions are sold worldwide, addressing the needs of companies of all sizes, primarily in the automotive, aerospace and defense, general manufacturing and machinery, and electromechanical industries. Information on IMSpost, IMSce and IMSverify is available at <http://www.ims-software.com>.

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## ***Integware Becomes Oracle PartnerNetwork Gold Level Partner***

9 August 2012

Integware today announced that it has achieved Gold Partner status in Oracle PartnerNetwork (OPN). By attaining Gold Level membership, Oracle has recognized Integware for its commitment to establish Oracle related knowledge in delivering solutions that satisfy good quality practices (GxPs) in compliance with worldwide regulatory standards and for uniquely addressing the challenges of joint customers who want to effectively manufacture their products.

Integware has been providing services and solutions to the PLM industry for over 18 years. With its deep domain expertise and extensive knowledge of regulated industries, they can provide an ideal combination of people, process, and tools. Integware transforms businesses by providing cost effective solutions to companies, in a rapid and efficient manner.

"We are thrilled to become a Gold level member of Oracle PartnerNetwork," stated Chris Kay, CEO of Integware. "Oracle's platform is well respected throughout the industry and we believe that we can begin to provide joint customers with solutions that can bring measurable value to their organizations."

With its Gold status, Integware receives the benefit of being able to start developing specializations that will allow them to grow their business, increase their expertise, reach higher levels of customer retention, and create differentiation in the marketplace. Gold members also become eligible to resell all Oracle Technology products and can apply to resell Oracle Applications and Industry Solutions. In addition, they receive access to Oracle account representatives and My Oracle Support updates for all products, discounts on training, limited free assessment/exam vouchers, reduced rates on the purchase of Oracle licenses for internal use, discounts on advanced customer services and more. For more information about the benefits of becoming an OPN Gold level partner, please

visit: <http://www.oracle.com/us/partnerships/index.htm>

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## *Olympic Fever and Pedal Power Drive CAD Anniversary*

9 August 2012

Since CAD Schroer acquired MEDUSA and MPDS, its experts have completely overhauled and expanded one of the most flexible engineering software systems on the market. Its staff, many of whom are passionate about sports, celebrated a decade of growth and customer loyalty by cycling for charity.

“In the summer of Euro 2012 and the Olympics, we thought the best way to mark a decade of MEDUSA and MPDS at CAD Schroer was to once again encourage staff to get sporty, not just watch sports on TV,” says Managing Director Michael Schroer, one of the founding members of the international engineering solutions provider, which celebrated its first quarter century in 2011. “We harnessed the interest and energy generated by Euro 2012 and the Olympics to encourage staff to cycle to work during the entire tournament, culminating in a company bike ride in Germany prior to our summer party, in honor of a decade of MEDUSA at our company,” Michael continues.

### **A Decade of Innovation**

By developing the Fourth Generation of MEDUSA, MEDUSA4, and launching a free personal version of the software for Windows and Linux, CAD Schroer consolidated and then grew the product’s loyal worldwide customer base. It also launched one of the first large-scale 3D factory design software suites with MPDS4 Factory Layout, now deployed at international engineering consultancies, plant providers, food and machinery manufacturers as well as FMCG providers.

### **A Focus on the Next Generation**

While CAD Schroer’s developers are already focusing on the next generation of MEDUSA and MPDS, the company’s charitable donations will focus on the next human generation.

Staff members ended up cycling a joint 4706.4 km. For each km, CAD Schroer will be donating EURO 0.50 to a charity supporting young people in education. Employees have been asked to nominate their favorite charities, and a final vote among all CAD Schroer staff will determine which charity will be funded.

“We’re very proud of the commitment of the whole CAD Schroer team to our engineering software and consultancy business over the past ten years,” Michael concludes. “and with this charity drive we hope to help a significant number of youngsters to achieve their potential in the decades to come.”

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## ***Red Cedar Technology and SimuTech Group Form Strategic Partnership to Expand Engineering Design Optimization***

8 August 2012

Red Cedar Technology announced today that it has chosen SimuTech Group to be its distributor of HEEDS Multi-Disciplinary Optimization software and value-added services throughout Canada.

SimuTech Group is a premier engineering simulation services company and the largest reseller of ANSYS simulation software in North America. SimuTech Group Canada, formerly known as ROI Engineering, has been providing Computer-Aided Engineering solutions for 30 years and operates out of offices in Toronto, Montreal, and Calgary.

“We’re delighted to join forces with SimuTech Group to expand the successful deployment of parametric design optimization in Canada,” said Bob Ryan, CEO of Red Cedar Technology. “SimuTech has a large staff of experienced professionals with strong domain knowledge in the aerospace, automotive, military, and energy markets. It’s a perfect fit!”

HEEDS parametric design optimization software, from Red Cedar Technology, works seamlessly with SimuTech’s current simulation suite, including ANSYS (FEA and CFD), MOLDFLOW, FE-SAFE (Fatigue), and TOSCA. “Our clients are increasingly looking for better means to optimize their virtual prototype simulation models. We surveyed the market and found Red Cedar Technology provides the very best parametric optimization capabilities available today and we are excited about being able to offer a value added product offering that is guaranteed to provide an ROI,” said Terry Walker, President of SimuTech Group Canada.

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

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## ***Visual 2000 and Datec Enter Agreement***

7 August 2012

Visual 2000 International Inc. and Datec Retail Systems, Inc. have formed a technology and marketing alliance that will enable the companies to integrate and jointly distribute the Visual 2000 End-2-End and Datec Point-of-Sale (POS) fashion solutions worldwide.

Under the terms of the agreement, Visual 2000 will distribute Datec retail solutions in the North American fashion market. In addition to marketing the integrated solutions, Datec will also perform system implementations and offer full customer support services for the full range of Visual 2000 software solutions in the Czech Republic, Slovenia, and the Netherlands.

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“We are excited to partner with Datec to bring the combined power of these two solutions to the global fashion industry,” noted Charles Benoualid, Visual 2000 Vice President of Research and Development.

“By working closely together, our companies will deliver a much higher level of value chain integration than was previously available. From a commercial perspective, this helps both companies expand geographic distribution and strengthen customer support capabilities. All of this drives increased value for our clients.”

Visual 2000 End-2-End enterprise software is designed specifically to accelerate and manage the design-to-delivery lifecycle of fashion and soft goods products. Key functional components of the fully integrated, modular solution enable brand manufacturers and vertical retailers to improve efficiencies and remove costs from their merchandising, design, product development, sourcing, production, distribution, and sales processes.

Datec POS systems provide retailers with the latest in touch-screen terminals, multimedia functionality, internet and email integration, and data collection through a secure, online POS transaction connection. Both systems utilize the latest Microsoft® programming, database, and internet technologies.

According to Jindrich Hegmon, Datec Chief Executive Officer, “Today’s 24/7, multi-channel fashion sales environment requires vertical retailers and brand marketers to eliminate functional and visibility gaps from the entire concept-to-consumer product lifecycle. Teaming with Visual 2000 gives us the opportunity to create a seamless flow of information from design to point-of-sale. This breakthrough will give our customers a sustainable competitive advantage.”

Datec Retail Systems, Inc. has more than 20 years of IT and business automation experience in the global fashion and consumer goods industries.

Visual 2000 International Inc. develops and markets comprehensive software solutions for the Apparel, Footwear, and Accessories (AFA) industry.

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## Events News

### ***CimatronE's Built-in Mold Making Functionality on Display in Brazil***

8 August 2012

Cimatron Limited today announced that its integrated CAD/CAM CimatronE software will be demonstrated at the EuroMold Brasil trade fair to be held in Joinville, Brazil, from August 20-24.

"One of the most important things to know about CimatronE is that it is not a generic CAD/CAM

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product with extras for the mold maker simply bolted on as an afterthought," said Alexandre Censi, Cimatron's country manager for Brazil.

"CimatronE was designed specifically with the mold maker in mind, and its rich functionality offers all that a tool shop needs to produce its molds as quickly and effectively as possible.

"In addition, as a fully integrated CAD/CAM product, there is no data lost in translation between designers, programmers and the shop floor, with everyone being able to easily access the same design and NC files," added Mr. Censi.

The CimatronE display at EuroMold Brasil will be hosted by reseller Cimacad. Key CimatronE features that will be showcased at the event include MoldDesign, QuickElectrode, and 3- and 5-Axis programming. Also on display will be the NC SuperBox, the world's first toolpath acceleration device that promotes tool shop productivity by enabling the offloading of background toolpath calculations.

CimatronE's capabilities for mold design include strong data import, quote and BOM generation; fast and effective core and cavity design; access to a large number of tool catalogs; design and placement of features such as runners, lifters, sliders, ejectors, and cooling channels; motion analysis and collision detection; drafting; and electrode creation.

CimatronE's NC programming for molds includes build-in CAD functionality; efficient roughing; superior finishing; 5-Axis milling; plate machining and drilling; advanced micro-milling; and Wire EDM.

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## ***EADS Global Collaboration Platform PHUSION***

8 August 2012

The PHUSION harmonized PLM global collaboration platform for EADS extended enterprise.

In the frame of the PLM Harmonization Center of EADS (PHC), the project "PHUSION" aims at developing an innovative PLM interconnection platform for the EADS Extended Enterprise. This platform is developed in synergy with the BoostAeroSpace platform in terms of interoperability standards, security and re-use of some components. It features real-time collaboration sessions as well as PLM oriented data exchange capabilities promoting the use of standards like STEP.

PHUSION is due for starting first pilot at Astrium in 2012.

The presentation is expected to be the opportunity to deliver a first practical use feedback

**What:** EADS Global Collaboration Platform PHUSION  
**Where:** ILA Conference Center, Hall 4, Room M 4.1  
**When:** 10:00 - 11:45  
**Speakers:** Tobias Hesse,  
Dr. Amaury Soubeyran

For more information, visit: [http://www.ila-berlin.de/ila2012/konferenzen2012/conf2012\\_detail\\_e.cfm?id\\_nr=79&tmp=1](http://www.ila-berlin.de/ila2012/konferenzen2012/conf2012_detail_e.cfm?id_nr=79&tmp=1)

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## ***ICAM Introduces SmartPATH™ at IMTS 2012***

6 August 2012

ICAM Technologies Corporation (ICAM) is pleased to announce that it will be introducing SmartPATH™ at IMTS 2012 at booth E3217.

ICAM's SmartPATH™ is unique software designed to automatically optimize machine tool motions and positions based on standard toolpaths generated by CAD / CAM systems. On average, customers can expect up to 35% reduction in RAPID motion time.

RAPID positioning motions generated by CAD / CAM software do not take into account machine tool kinematics, workpiece setup and travel limitations and therefore, they are often unsafe and inefficient.

SmartPATH™, however, identifies non-optimized and unsafe positioning motions and automatically replaces them with minimized safe motions based on actual machine tool kinematics, physical travel limits, axes positioning rates and the dynamically changing in-process stock.

### **SmartPATH™ Benefit Highlights**

- Reduces manufacturing cycle time by minimizing machine tool motions and positions
- Allows operators to quickly and easily migrate a part program from one CNC machine to another
- Ensures safe collision-free multi-axis machine tool paths based on actual machine kinematics
- Maximizes part accessibility and the machine's working envelope

"SmartPATH™ sets ICAM apart in the market," says Brian Francis, ICAM's Director of Research and Development. "NC programmers can now optimize the use of CNC machines by shortening machining time, allowing for the full use of the machine axis range and reducing the part programming time inside the CAM system"

## **About ICAM Technologies Corporation**

For over 40 years ICAM Technologies Corporation has been specializing in the development and implementation of advanced NC post-processing solutions for manufacturers in major industries worldwide. To further strengthen its position in the marketplace, ICAM has introduced Virtual Machine®, an integrated machine tool simulator with the provision for G-Code verification driven with Control Emulator™. ICAM customers benefit from dramatic improvements to CNC machine tool performance, NC programmer productivity and manufacturing process efficiency.

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## ***Seventh Annual International Microelectronics Olympiad of Armenia to be Hosted by Synopsys in Cooperation with IEEE TTTC***

9 August 2012

Synopsys, Inc. today announced that the Seventh Annual International Microelectronics Olympiad of Armenia will be held on October 4, 2012 in Yerevan, Armenia. For the first time, the event will be held in cooperation with the Institute of Electrical and Electronics Engineers (IEEE) Test Technology Technical Council (TTTC). IEEE's participation highlights the contest's growing international reputation.

Initiated in 2006, the Olympiad is held under the patronage of the Prime Minister of Armenia. Synopsys Armenia CJSC is the general organizer and a sponsor of the Olympiad. The general sponsor is Vivacell-MTS, Armenia's leading mobile operator. The Olympiad is also sponsored by Unicom CJSC, Enterprise Incubator Foundation, Microsoft RA, Union of Manufacturers and Businessmen of Armenia, Union of Information Technology Enterprises, Arminco CJSC, Viasphere Technopark and INGO ARMENIA ICJSC.

In keeping with the theme of "Meeting the Challenges of Design and Test," the contestants in the Olympiad will compete in the areas of digital IC design and test, analog and mixed-signal IC design and test, semiconductor devices and technology, and mathematic and algorithmic issues of electronic design automation (EDA).

Guided by the motto "Recognize the best, inspire the next," the Olympiad aims to highlight the brightest, most talented engineers under the age of 30. The Olympiad goals are to stimulate further development of microelectronics in Armenia and in the participating countries by: recognizing and inspiring talented engineers; increasing interest in microelectronics among young specialists; discerning the level of knowledge of participants in the field of microelectronics in order to make necessary adjustments to regional educational programs; and creating a community of young specialists involved in microelectronics.

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"The first Armenian Microelectronics Olympiad in 2006 attracted 82 participants. The event has since grown to an international contest including numerous award categories and 349 participants from 12 countries," said Rich Goldman, the president of the Olympiad Organizing Committee, CEO of Synopsys Armenia and vice president for Corporate Marketing and Strategic Alliances at Synopsys. "Working with IEEE will enable further growth. As one of the world's most respected and recognized professional engineering societies, the IEEE sponsors more than 1000 annual conferences and meetings in 81 countries and is highly involved in the technical program development of numerous events including trade shows, training workshops, and job fairs. IEEE's recognition of the Olympiad also benefits Armenia by highlighting it as a Center of Excellence for Microelectronics Education."

"This collaboration is a win-win-win situation for IEEE, for the Olympiad, and for Armenia as a country," said Dr. Yervant Zorian, president of the IEEE TTTC and chief architect at Synopsys. "The involvement of IEEE, the largest organization of electrical and electronic engineers, helps the Olympiad gain more international recognition. The Olympiad contributes to IEEE's efforts to encourage and support an interest in technology in young adults; holding the contest in Armenia highlights the country's technical leadership."

"The IEEE TTTC's decision to endorse the Annual International Microelectronics Olympiad is a key acknowledgement of its success in promoting technology development in this region over the past six years," said Vazgen Melikyan, president of the Olympiad Program Committee, director of Synopsys Armenia Educational Department (SAED), honorable scientist of Armenia and Sc.D. professor. "I am confident the cooperation of IEEE TTTC will result in a significantly greater number of highly knowledgeable participants from around the globe."

For more information, please visit <http://tab.computer.org/tttc>

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## ***Spring Technologies to Attend IMTS 2012***

8 August 2012

SPRING Technologies will show the latest features of NCSIMUL SOLUTIONS at the IMTS trade show - September 10-15, 2012

**Event:** IMTS 2012  
<http://www.imts.com/>

**Date:** September 10-15, 2012

**Location:** [Mc Cormick Place, Chicago, IL, USA](#)  
[Floor plan: Booth E-3267](#)

Come and discover their solutions regarding:

- [Simulation and optimization of NC programs \(machining, drilling, riveting\)](#)
- [Development of post-processors](#)
- [Optimization of cutting conditions](#)
- [Generation of manufacturing documentation](#)
- [Collaborative G-code simulation](#)

For more information on Spring Technologies, visit: <http://www.springplm.com/>

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## ***'The Future of Plant Design' to Preview at AVEVA World Summit 2012***

7 August 2012

AVEVA announced today that it is offering delegates of its [AVEVA World Summit 2012](#) a preview and live demonstration of its new 3D design software product that promises to be 'The Future of Plant Design'. At the event being held on October 10 -12 at the Marriott Rive Gauche Conference Center, Paris, additional details of the product's user interface and functional capabilities will be revealed.

'We are meeting the needs of the changing plant design market with this new product, which we first announced at AICHEM in June', said Dave Wheeldon, CTO, AVEVA. 'The product will support new and improved ways of working, facilitate faster project deployment, as well as embracing mobile computing to provide even greater control and visibility to stakeholders across the design chain.'

'AVEVA has been at the forefront of engineering and information management software for 45 years', added Richard Longdon, CEO, AVEVA. 'During that time much has changed but our focus has remained on helping customers work globally with less risk, shorter lead times and greater efficiency. With a Summit theme of 'Defining the Future' there really is no better place to show this new product live to our key customers and prospects from around the world. We look forward to an exciting and interactive Summit.'

The technical vision for AVEVA's new product includes:

- A 3D modelling capability which is 'real world' representation quality, combining the best 3D graphics and laser scanning point clouds
- A 2D drawing capability, fully automated and integrated with the 3D model
- Full interoperability with other design systems in the design process
- An architecture that can support project re-use and modular design
- An integration with laser scanning point clouds for dimensional control in construction

To register for the AVEVA World Summit simply visit [www.avevaworld.com](http://www.avevaworld.com).

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## Financial News

### ***Cimatron Reports Revenues of \$10.6M and Record Q2 Non-GAAP Operating Profit of \$1.7M in Q2/12***

9 August 2012

Cimatron Limited today announced financial results for the second quarter and first half of 2012.

Highlights of Cimatron's results for these periods include the following:

- 11% year-over-year revenue increase on a constant currency basis in Q2 2012
- 28% year-over-year non-GAAP operating profit increase in Q2 2012
- 16% year-over-year new license revenue growth in Q2 2012, on a constant currency basis
- \$4.7M positive cash flow from operating activities in the first six months of 2012

Concurrently with the announcement of its results, Cimatron today also announced it reached an agreement with the Office of Chief Scientist in the Israeli Ministry of Industry, Trade and Labor (OCS). Under the agreement, Cimatron paid to the OCS in July 2012 an amount of approximately \$2.5M, and the OCS exempted Cimatron from any further royalty reports and payments, other than as may be required under applicable law in the event of transfer of know how outside of Israel. As a result of this agreement, Cimatron recorded additional income of approximately \$0.4M in the second quarter of 2012, reflected as a lower cost of revenue in the GAAP Statements of Income for the second quarter of 2012. Such income was excluded from the non-GAAP results for the second quarter of 2012, in order to make comparisons to previous periods easier.

Commenting on the results, Danny Haran, President and Chief Executive Officer of Cimatron, noted "We are pleased to report a strong second quarter, with healthy growth in revenues and record Q2 non-GAAP operating profit. So far, 2012 unfolds to our satisfaction and according to plans. Yet, we cannot be oblivious to the ominous signs of economic slowdown, notably in Europe. We remain cautious as we move on with our business plans. I am confident that our competitive product portfolio, strong cash flow and prudent budget control will help us cope well with whatever conditions and challenges the market may present in the near future." concluded Mr. Haran.

**The following provides details on Cimatron's GAAP and non-GAAP results for the second quarter and first six months of 2012:**

#### **GAAP:**

**Revenues** for the second quarter of 2012 were \$10.6 million, compared to \$10.0 million recorded in the

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second quarter of 2011. For the first six months of 2012, revenues were \$20.5 million, compared to \$18.9 million in the same period of 2011.

**Gross Profit** for the second quarter of 2012 was \$9.7 million, as compared to \$8.7 million in the same period in 2011. Gross margin in the second quarter of 2012 was 91% of revenues, compared to a gross margin of 87% in the second quarter of 2011. For the first six months of 2012, gross income was \$18.1 million, compared to \$16.3 million in the same period of 2011. Gross margin for the six months ended June 30th, 2012 was 89% compared to a gross margin of 86% for the first six months of 2011. The higher gross margins in the second quarter and first six months of 2012 as compared to the parallel periods in 2011 mainly reflect the agreement with the OCS.

**Operating profit** in the second quarter of 2012 was \$1.8 million, compared to an operating profit of \$1.0 million in the second quarter of 2011. In the first six months of 2012, Cimatron recorded an operating profit of \$2.7 million, compared to an operating profit of \$1.5 million in the first six months of 2011.

**Net Profit** for the second quarter of 2012 was \$1.0 million, or \$0.11 per diluted share, compared to a net profit of \$0.9 million, or \$0.09 per diluted share, recorded in the same quarter of 2011. In the first six months of 2012, net profit was \$1.8 million, or \$0.20 per diluted share, compared to a net profit of \$1.2 million, or \$0.13 per diluted share, in the first six months of 2011.

### **Non-GAAP:**

**Revenues** for the second quarter of 2012 were \$10.6 million, compared to \$10.0 million recorded in the second quarter of 2011. For the first six months of 2012, revenues were \$20.5 million, compared to \$18.9 million in the same period of 2011.

**Gross Profit** for the second quarter of 2012 was \$9.4 million, as compared to \$8.8 million in the same period in 2011. Gross margin in the second quarter of 2012 was 89% of revenues, the same as in the second quarter of 2011. In the first six months of 2012, gross income was \$18.0 million, compared to \$16.5 million in the first six months of 2011. Gross margin for the six months ended June 30th, 2012 was 88%, the same as in the first six months of 2011.

**Operating Profit** in the second quarter of 2012 was \$1.7 million, compared to an operating profit of \$1.3 million in the second quarter of 2011. In the first six months of 2012, Cimatron recorded an operating profit of \$2.8 million, compared to an operating profit of \$2.0 million in the first six months of 2011.

**Net profit** for the second quarter of 2012 was \$1.0 million, or \$0.11 per diluted share, compared to a net profit of \$1.3 million, or \$0.14 per diluted share, recorded in the same quarter of 2011. The contrast between operating profit (which rose in the second quarter of 2012 compared to the second quarter of 2011) and net profit (which declined in the second quarter of 2012 relative to the second quarter of 2011) was mainly attributable to two causes:

1. In the second quarter of 2012, income tax expense constituted 29% of income before taxes, while in Q2/11, it was 3% of income before taxes. The main reason for the higher effective tax rate is the Company's having completed the use of its remaining U.S. tax loss carry-forwards towards

# CIMdata PLM Industry Summary

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the end of 2011; and

2. Financial expenses that the Company incurred in the second quarter of 2012, primarily due to the effect of the Euro and Israeli Shekel exchange rate changes versus the US dollar. In the second quarter of 2011, the effect of such exchange rate differences was in the opposite direction and resulted in financial income.

In the first six months of 2012, net profit was \$2.0 million, or \$0.22 per diluted share, compared to a net profit of \$2.0 million, or \$0.22 per diluted share, in the first six months of 2011. The contrast between operating profit (which rose in the first half of 2012 compared to the first half of 2011) and net profit (which remained the same in these two periods) was mainly attributable to the same two causes that produced a corresponding effect in the second quarters of 2012 and 2011, respectively.

[Click here](#) to open the full release with the financial tables.

## Conference Call

Cimatron's management will host a conference call today, August 9th, 2012, at 9:00 EDT, 16:00 Israel time. On the call, management will review and discuss the results, and will answer questions by investors.

To participate, please call one of the following teleconferencing numbers. Please begin placing your call at least 5 minutes before the conference call commences.

USA: +1-888-668-9141

International: +972-3-9180609

Israel: 03-9180609

For those unable to listen to the live call, a replay of the call will be available beginning on the day after the call at the investor relations section of Cimatron's website, at: [www.cimatron.com](http://www.cimatron.com)

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## ***OpenText Reports Fourth Quarter and Fiscal Year 2012 Financial Results***

9 August 2012

Open Text(TM) Corporation announced today its financial results for the fourth quarter and year ended June 30, 2012.

### **Financial Highlights for Q4 FY12**

- Total revenue for the period was \$305.6 million up 7% Y/Y
- License revenue was \$78.0 million, down 2% Y/Y
- GAAP-based EPS, diluted was \$0.14 compared to \$0.49 Y/Y; Non-GAAP-based EPS, diluted was \$1.17 compared to \$1.05 Y/Y up 11% Y/Y (2)

## CIMdata PLM Industry Summary

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- GAAP-based income from operations was \$39.7 million and 13.0% of revenues; Non-GAAP-based operating income was \$84.8 million and 27.7% of revenues(2)
- Operating cash flow was \$79.8 million compared to \$52.0 million up 53% Y/Y, with an ending cash balance of \$559.7 million.

### Financial Highlights for FY12

- Total revenue for the period was \$1,207.5 million up 17% Y/Y
- License revenue was \$293.7 million, up 9% Y/Y
- GAAP-based EPS, diluted was \$2.13 compared to \$2.11 Y/Y; Non-GAAP-based EPS, diluted was \$4.60 compared to \$4.07 Y/Y up 13% Y/Y (2)
- GAAP-based income from operations was \$149.4 million and 12.4% of revenues; Non-GAAP-based operating income was \$329.9 million and 27.3% of revenues(2)
- Operating cash flow was \$266.5 million compared to \$223.2 million up 19% Y/Y

"In fiscal year 2012 OpenText delivered its best revenue and non-GAAP earnings in our 20 year history. With revenue up 17% and non-GAAP earnings up 13%, we have consistently grown revenue and non-GAAP earnings year-over-year for the last 7 fiscal years," said OpenText CEO Mark J. Barrenechea. Mr. Barrenechea continued, "During the fiscal year, we rebuilt the leadership team, better organized the company and positioned ourselves to grow market share in the \$13 billion Enterprise Information Management (EIM) market. We see increasing demand for our EIM solutions as customers are turning their attention to a single source of truth for all of their unstructured information."(5)

### Business Highlights

- EIM expanded market opportunity
- EasyLink acquisition closed July 2, 2012
- Announcement of OpenText Cloud
- Technology, services, financial and public sector industries saw the most demand
- Organizational changes complete
- 8 deals over \$1 million and 12 deals between \$500K and \$1 million in the fourth quarter
- Customer successes in the fourth quarter include McCain Foods Limited, Capricorn Investment Holdings, Bendigo Bank of Australia, The Polytechnic University of Hong Kong, News International Limited, Mosaic, JP Morgan, U.S. Department of the Interior and the National Olympic Photo Pool.
- OpenText solutions help UK national press photographers showcase visual story of the Olympics:<http://www.opentext.com/2/global/press-release-details.html?id=FD0360263C1A42748753AE2D358038EA>
- U.S. Department of the Interior deploys OpenText cloud-based ECM solution <http://www.opentext.com/2/global/press-release-details.html?id=D7D55237959549F89FA6445E7898C9A4>

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<b>Summary of Quarterly Results</b>						
	Q4 FY12	Q3 FY12	Q4 FY11	% Change (Q/Q)	% Change (Y/Y)	
Revenue (million)	\$305.6	\$292.3	\$285.5	4.6%	7.0%	
GAAP-based gross margin	65.8%	63.6%	66.7%	220	bps	(90) bps
GAAP-based operating income margin	13.0%	9.3%	13.0%	370	bps	— bps
GAAP-based EPS, diluted	\$0.14	\$0.59	\$0.49	(76.3%)	(71.4%)	
Non-GAAP-based gross margin <sup>(2)</sup>	72.9%	71.0%	73.2%	190	bps	(30) bps
Non-GAAP-based operating margin <sup>(2)</sup>	27.7%	25.2%	25.8%	250	bps	190 bps
Non-GAAP-based EPS, diluted <sup>(2)</sup>	\$1.17	\$1.01	\$1.05	15.8%	11.4%	

<b>Summary of Year to Date Results</b>				
	FY12	Q3 YTD FY12	FY11	% Change (Y/Y)
Revenue (million)	\$1,207.5	\$901.8	\$1,033.3	16.9%
GAAP-based gross margin	65.4%	65.2%	67.0%	(160) bps
GAAP-based operating income margin	12.4%	12.2%	14.6%	(220) bps
GAAP-based EPS, diluted	\$2.13	\$2.00	\$2.11	0.95%
Non-GAAP-based gross margin <sup>(2)</sup>	72.5%	72.3%	73.6%	(110) bps
Non-GAAP-based operating margin <sup>(2)</sup>	27.3%	27.2%	27.5%	(20) bps
Non-GAAP-based EPS, diluted <sup>(2)</sup>	\$4.60	\$3.43	\$4.07	13.0%

## Conference Call Information

The public is invited to listen to the earnings conference call at 5:00 p.m. ET (2:00 p.m. PT) by dialing 877-974-0446 (toll-free) or 416-644-3417 (international). Please dial-in 15 minutes ahead of time to ensure proper connection. Alternatively, a live webcast of the earnings conference call will be available on the Investor Relations section of the Company's website at [http://www.opentext.com/2/global/ex\\_event.html?evtype=events&id=701D000000VS0qIAG](http://www.opentext.com/2/global/ex_event.html?evtype=events&id=701D000000VS0qIAG).

An audio replay of the conference call will also be made available approximately two hours after the conclusion of the call. The audio replay will remain available until 11:59 p.m. on August 23, 2012 and can be accessed by dialing 877-289-8525 (toll-free) or 416-640-1917 (international) and entering the confirmation code: 4549967 followed by the number sign.

For an unabridged version of this press release, visit: <http://www.opentext.com/2/global/press-release-details.html?id=ECA7DC2E76E042D8B872FF0122C0528E>

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# CIMdata PLM Industry Summary

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## ***Synopsys Announces Earnings Release Date for Third Quarter Fiscal Year 2012***

8 August 2012

Synopsys, Inc. today announced it will report results for the third quarter of fiscal year 2012 on Wednesday, Aug. 22, 2012, after the market close.

A conference call to review the results will begin at 2:00 p.m. PT (5:00 p.m. ET) and will be hosted by Aart de Geus, chairman and co-chief executive officer, and Brian Beattie, chief financial officer.

Financial and other statistical information to be discussed on this conference call will be available on the corporate website at <http://www.synopsys.com> immediately before the call. A live webcast will also be available on this site. Participants should access the live webcast at least 10 minutes prior to the start of the call. A webcast replay can be accessed on the corporate website beginning Wednesday, Aug. 22, 2012, at approximately 5:30 p.m. PT. The replay will remain available until Synopsys announces its fourth quarter and fiscal year 2012 results in December 2012. In addition, a dial-up replay of the conference call will be available beginning Aug. 22, 2012 at 4:00 p.m. PT, ending on Sept. 5, 2012 at midnight. The replay telephone number is USA (800) 475-6701, and International (320) 365-3844, Access Code 256843.

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## Implementation Investments

### ***AIDC to Develop Composite Parts for Leading Aerospace Manufacturers with Siemens PLM Software Technology***

7 August 2012

Siemens PLM Software today announced that [Aerospace Industrial Development Corporation](#) (AIDC), a supplier to the world's leading aircraft manufacturers, has purchased the latest version of the [Fibersim™](#) portfolio of software for composites engineering. AIDC will be able to seamlessly transfer customers' computer-aided design (CAD) files into Fibersim to drive manufacturing processes as well as to develop flat patterns and laser data files.

AIDC supports Taiwan's national defense industry and is that country's supplier to the world's aerospace companies, such as Boeing, Bombardier, General Electric and Airbus. It is experienced in the use of leading edge technologies, materials and manufacturing processes in the development of today's most advanced aircraft programs. For more than a decade AIDC has depended on the use of Fibersim to engineer composite parts and now, motivated by the need to keep pace with an anticipated increase in workload for current and future aircraft programs, AIDC resolved that [Fibersim 2012](#) would be the most effective solution to develop skin panels, frames, doors and stringers.

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“Fibersim has a long track record of success in the aerospace industry, and that was a big consideration in this purchase,” said Mike Lee, special assistant to the chairman of AIDC. “The new version of Fibersim makes it easier to manage the development of large parts. It can help us save time and avoid errors. Overall, we expect that it will enable us to achieve better efficiency and quality when designing and manufacturing composite parts.”

“AIDC is a premier supplier to the aerospace industry, especially in the area of composites, so I think its confidence in Fibersim 2012 says a lot,” said John O’Connor, director of aerospace product & market strategy for the Specialized Engineering Software business segment of Siemens PLM Software. “We have a long history of collaborating with AIDC on composite development activities and we look forward to working with them to meet the challenges of their growing workload.”

AIDC will use Fibersim to work specifically with CATIA® software CAD data.

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## ***Aurora Flight Sciences Selects VectorCAST to Leverage MathWorks® Simulink® Model Test Vectors for Code Based Testing***

6 August 2012

Vector Software announced that Aurora Flight Sciences, a manufacturer of advanced aerospace vehicles, has selected Vector Software’s VectorCAST embedded software testing platform to support DO-178B software testing.

Aurora Flight Sciences, headquartered in Manassas Virginia, specializes in the design and construction of Unmanned Aircraft Vehicles (UAVs) for military applications, such as surveillance, reconnaissance, and strike.

Aurora’s development team chose Vector Software’s VectorCAST/C++™ to automate the software testing on the control systems in their unmanned aircraft. Aurora chose VectorCAST for its robust capabilities and integration with MathWorks® Simulink®. The integration enabled the reuse of previously generated model test vectors resulting in a significant savings of time normally allocated to building and re-executing tests in code and target based environments

“Our test tool evaluation team considered a number of other applications for software testing. We ultimately chose VectorCAST for its integration and reuse capability with Simulink”, stated Larry Rogers, Avionics Software Manager for Aurora Flight Sciences. “We have over 40,000 Simulink test cases that can now be imported and executed in the VectorCAST environment automatically”.

"We are very excited about this relationship with Aurora", said William McCaffrey, Chief Operating Officer for Vector Software. "This demonstrates Vector Software’s commitment to provide our

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customers with best-of-breed solutions and our ability to help large-scale software development organizations prevent software errors in what are some of the most complex systems being developed today."

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## ***Bentley Systems Salutes Its Software Users for Their Contributions to London's Infrastructure***

6 August 2012

Bentley Systems, Incorporated, today commended its users for their contributions to London's built environment. London residents and visitors are benefiting from Bentley users' recent work leveraging information modeling through integrated projects for the creation and operation of better-performing, intelligent infrastructure including skyscrapers, office complexes, transportation systems, sports venues, and more.

### **Information Modeling**

Information modeling empowers designers, builders, and owner-operators to simulate the performance of an asset before it's built, assuring it will be constructed and perform according to design intent, and maximizing its useful life. To achieve the required quality, performance, and value-add in designing and constructing sports venues in London – while also meeting tight deadlines – Bentley users employed Bentley Systems' building information modeling (BIM) software to take full advantage of information mobility across project phases and disciplines. Examples of these users and their respective venue work include:

- *Arup* – Aquatics Centre, Handball Arena
- *Buro Happold* – Stadium
- *Edge Structures* – Aquatics Centre
- *Hopkins Architects* – Velodrome
- *Make Architects* – Handball Arena
- *Populous* – Stadium
- *Wilkinson Eyre* – Basketball Arena

Previously, *Edge Structures* coordinated the structural design work at the All England Club in London for redevelopment of the east stand of Wimbledon's Centre Court. This included extending the terrace to provide an additional six rows of seating and adding a retractable roof for adverse weather conditions.

*Edge Structures* used Bentley's BIM software, including Structural Modeler, to design the facility improvements for the new retractable roof. In addition, Structural Modeler and MicroStation were used in the development stages of the design and the integration of other professionals' work in 3D, minimizing the design resource requirements. This achieved the extremely tight project schedules that resulted from the refurbishment having to be completed in stages between tournaments. For additional details, click [here](#).

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Global design, engineering, and management consultancy *WSP* resolved comparable difficult challenges in its structural design solution for The Shard at London Bridge Quarter, a 95-story skyscraper.

Inaugurated last month, this tallest building in Western Europe is comprised of multiple glass shards that merge to form an elongated pyramid, creating a highly complex structure. *WSP* used Bentley's RAM information modeling software to meet the design goals of maximum space, minimum construction cost, and optimum safety – all while reducing the steel tonnage to half of what it was in the original schema and providing a sustainable design that used 20 percent recycled steelwork.

Bentley and its commissioned architect, *BDP*, leveraged information modeling in the recent space redesign of its new U.K. headquarters at 20 Gracechurch Street in London. This facility, with the help of AECOsim Energy Simulator – Bentley's unique application for the immersive design, simulation, and analysis of building mechanical systems, environmental conditions, and energy performance – was just awarded a "Very Good" BREEAM rating.

## Integrated Projects

Information modeling realizes its full potential through integrated projects, and Bentley users in London continue to innovate in delivery methods. U.K. users particularly recognize that the complexities of large-scale, distributed projects are best met through "collaborative BIM," which is why Bentley's ProjectWise system of servers and services was chosen as the engineering content management and collaboration system for the integrated projects that delivered the sports venues listed earlier.

Renowned design, planning, engineering, consulting, and technical specialist firm *Arup* highlighted ProjectWise in its contribution to the Olympic Delivery Authority's (ODA's) Learning Legacy website – which the ODA established as a virtual legacy of its benchmark-setting integrated project work. The ODA asked its contractors to post lessons learned on the site, and *Arup*'s discussions, which also included a look at project contributions by *Atkins* and others, can be accessed by clicking [here](#).

One of the ODA's first integrated project innovations was its appointment of a consortium – comprising *CH2M HILL*, *Laing O'Rourke*, and *Mace (CLM)* – as its Delivery Partner. As noted on the ODA's Learning Legacy website, *CLM* selected Bentley to provide the project's engineering content management and collaboration system, to be made available to all of its contractors. For additional information, click [here](#).

ProjectWise enables London's architectural, engineering, construction, and operations community to more effectively work together by way of BS 1192, the standard work process that is crucial to implementing the U.K.'s [Government Construction Strategy](#) of May 2011. The strategy mandates the use of fully collaborative BIM by 2016. ProjectWise is enabling Bentley users across the U.K. to accordingly incorporate BS 1192 best practices to minimize risk and to assure timely project completion.

## Intelligent Infrastructure

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Collaborative BIM leveraged through integrated projects extends the benefits of information modeling throughout the lifecycle of the infrastructure asset, into operations and maintenance. This results in better-performing, intelligent infrastructure that provides owner-operators with a greater return on their investments. Examples of Bentley users whose operations work, empowered by Bentley's AssetWise software, currently is benefiting London residents and visitors include:

- *Transport for London (TfL)* – TfL's use of Bentley's Exor-based [Roadworks Online](#) service is helping speed roadwork completions by enabling its breakthrough Lane Rental scheme. Designed to incentivize utility companies to work more efficiently and reduce travel delays, the scheme applies to any utility or TfL works carried out on the road network. By encouraging utility companies and highway authorities to perform work during off-peak hours, road users benefit from more reliable travel times and fewer delays. As an added benefit, the new scheme helped ensure that all planned roadwork in London for the first half of 2012 was completed by the government-mandated July 1 deadline.
- *Utility roadwork crews in London* – These users have been taking advantage of the Intelligent Trench Service (an underground mapping solution from Bentley, 3M, Trac-ID, and Infotec used with PelicanCorp's beforeUdig service) to complete roadworks in advance of the July 1 mandated deadline. This service enables authorities and contractors to use Bentley's Intelligent Trench portal to access utility plan information directly through the beforeUdig service. [Intelligent Trench](#) combines radio frequency identification asset marking, GPS, an Exor spatial asset database from Bentley, and noninvasive surveying methods to enable excavations to be accurately and cost-effectively recorded, photographed, and mapped on a web portal. The service, which enables contractors and utilities to plan targeted excavations, results in fewer exploratory digs, reduced damage to underground assets, and improved on-site safety.

Bentley Systems CEO Greg Bentley said, "We at Bentley Systems have long recognized the U.K., and London in particular, for its uniquely farsighted approaches and thought leadership in sustaining infrastructure. We are proud to have helped Bentley users in surpassing requirements and meeting deadlines. Moreover, they've done so well, thanks to *information modeling* through *integrated projects*, that the *intelligent infrastructure* they've created is not only improving the experience of residents and visitors to London now, but also will help sustain London's infrastructure leadership, and thus its economic growth, well into the future."

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## ***CDS Case Study on QTC Success with CAD Downloads and 3DModelSpace Available***

7 August 2012

[CDS](#) (Catalog Data Solutions, Inc.) today released a case study on the [QTC](#) implementation of the CDS [CAD download](#) solution and use of [www.3DModelSpace.com](http://www.3DModelSpace.com) for CAD Model SEO and SEM.

QTC is a Garden City Park, New York, based operating division of Designatronics Incorporated, a company that began in 1960 as a manufacturer of small mechanical products. QTC is a supplier of power transmission components designed for use in industrial automation applications. Their product range includes the largest selection of off-the-shelf metric gears in the USA in addition to a large

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selection of timing belts, timing belt pulleys, tensioning devices and gearheads. Responding to customer requests for CAD models of products QTC started offering 3D CAD models of parts for download in 2007 to boost online and offline sales by saving designers' time and getting products spec'd into new designs."

"Since 2007 our CAD model downloads have climbed steadily from 500/month to 1000/month to over 2000/month and now, in just the first 5 months of 2012, we've had over 12,000 CAD downloads generated," said Brian Dengel, General Manager, QTC. "It's also interesting to see where our website traffic comes from. 3DModelSpace is like Google for CAD, the model data is all on our website and just the keywords and appropriate links are on the search engine. The results are fantastic, 3DModelSpace is by far our top referring site with nearly 30% of total click-throughs to QTCGears.com - we are getting nearly 1200 click-through/month. About 2/3rd of these click-through are the result of 'natural' search on 3DModelSpace.com and 1/3rd result from our ads on 3DModelSpace.com so our results are 50% better as a result of advertising on 3DModelSpace."

"We're delighted at the business value delivered to QTC by the [CDS ModelServer](#) solution and 3DModelSpace.com. As explained in the case study QTC responded to their customers, partnered with CDS for their automated SaaS solution, analyzed their traffic sources and focused their marketing resources – they are seeing excellent results," said John Major, CEO Catalog Data Solutions. "Sales and marketing organizations need to continually come up with ways to get in front of the selection and buying cycle. QTC has done just that, and ensured their products both remain in contention and exploit a new competitive advantage. Of the many types of online marketing content (e.g. white papers, case studies, brochures, videos, demos, recorded webinars, reviews, CAD model downloads, etc.) only one is known to lead to a sale nearly 50% of the time! CAD downloads may be the most efficient online marketing tool available."

Catalog Data Solutions helps industrial suppliers and distributors grow sales and strengthen customer loyalty through interactive online catalogs, ecommerce, 3D CAD model delivery and product configurator solutions.

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## ***National Institute of Fashion Technology (NIFT) adds OptiTex to its Knitwear Design Program***

2 August 2012

OptiTex has been chosen by NIFT, Institute of Design, Management and Technology, to be part of the study program in all the NIFT centers offering the four year Knitwear Design Program. The process of installing OptiTex has begun at three NIFT centers: Delhi, Hyderabad and Bangalore. NIFT joins the [respected list of worldwide educational institutes that have already implemented OptiTex](#).

NIFT provides a common platform for fashion education, research and training, and is one of India's leading fashion technology institutes. Incorporating OptiTex 2D and 3D software solutions to the study program was one more important step taken by NIFT to introduce the knitwear students with the latest technology in the fashion industry. Students would now have a smooth transition into a professional role at one of the many prospering export houses and factories around the country.

In an interview in June 2012, Prof. Kripal Mathur, Chairperson, Knitwear Design Dept. NIFT, said: "The introduction of OptiTex in the curriculum is a real breakthrough. The highlight of OptiTex is the live simulation which would help students of the Knitwear Design Department to visualize the designed product in real time. I think OptiTex will motivate and add more excitement in the design development work of the students."

"OptiTex's presence in the Indian textile market is on an accelerated growth path." Said Mr. Ran Kramer, Managing Director of OptiTex India and Sri Lanka. "We are proud to be at the forefront of the industry's technology and to be chosen by a leading academic institute to provide the next generation of professionals in India with access to Optitex 2D and 3D software solutions".

## **About NIFT- National Institute of Fashion Technology**

NIFT- National Institute of Fashion Technology was set up in 1986 under the aegis of the Ministry of Textiles, Government of India. It has emerged as a premier Institute of Design, Management and Technology, developing professionals for taking up leadership positions in fashion businesses in the emerging global market. NIFT has been granted statutory status under the act of Parliament of India in 2006, empowering the Institute to award degrees and other academic distinctions. The Institute is a pioneer in envisioning and promoting fashion business education in the country through a network of fifteen professionally managed domestic centers at Bangalore, Bhopal, Bhubaneswar, Chennai, Gandhinagar, Hyderabad, Jodhpur, Kangra, Kannur, Kolkata, Mumbai, New Delhi, Patna, Raebareli and Shillong.

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## Product News

### ***Adept 2013 Engineering Document Management Software Ships***

7 August 2012

Synergis Software, developers of the Adept [engineering document management](#) and [product data management](#) solution, today announced that Adept 2013 has been released. "Adept 2013 contains numerous enhancements to our CAD integrations, plus support for the 2013 suite of Autodesk products," says Todd Geiser, Adept product manager. "We've also added significant performance improvements and over 140 other customer-requested new features and fixes."

[Adept 2013](#) delivers new capabilities that increase productivity through collaboration, fast and accurate access to documents, improved revision control and design re-use, while preserving secure control over intellectual property and business processes.

### **Adept 2013 Release Highlights**

- CAD integration and viewing support for AutoCAD 2013-based products, including AutoCAD

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Mechanical, Electrical, and Autodesk Inventor 2013.

- Over 15 new features and improved user interface for the Adept CAD integration for AutoCAD 2013-based products, Autodesk Inventor 2013, and SolidWorks 2012.
- Multiple performance improvements include:
  - Significantly faster login to Adept
  - Faster system performance during administrative changes
  - Adept's FileGuide, a unique way to browse for files based on any combination of data fields, is significantly faster
- Updates to Adept's built-in visualization software, include viewing, mark up and compare for the latest versions of AutoCAD 2013-based products, Autodesk Inventor 2013, and Microsoft Office 2010 including Word, Excel, PowerPoint and Outlook formats. A complete list of viewer formats that Adept supports is available at <http://bit.ly/N1VI3Y>
- More powerful transmittal capabilities. Adept's Transmittals make communicating and tracking drawing and document sets to outside contractors, vendors, clients, or internal users easier and more flexible. Users can save and send a Transmittal through the Adept workflow for review and approval, create Transmittal versions, and track Transmittal activities in Adept's audit trail. With the 2013 release, details of transmittal distribution list contacts can now be included on the transmittal cover letter.

## About Synergis Software

Synergis Software develops, implements, and supports Adept engineering document management and product data management solutions. Used by more than 30,000 design and engineering professionals, Adept manages and controls the intellectual property and assets of the world's most competitive companies. For more information, call 800.836.5440/215.302.3000 or visit [www.SynergisSoftware.com](http://www.SynergisSoftware.com).

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## *Altair RADIOSS Structural Solver Achieves Unmatched Performance Using NVIDIA GPUs*

7 August 2012

Altair featuring another of its HyperWorks simulation solutions, RADIOSS™, accelerated by NVIDIA professional graphics processing units (GPUs), at SIGGRAPH 2012, this week in Los Angeles.

RADIOSS is a next-generation finite element structural solver for linear and non-linear simulations. It is used in the automotive and aerospace industries to maximize structural durability, noise-and-vibration performance, crashworthiness, safety and manufacturability of product designs.

Solvers are the heart of Altair's [HyperWorks](#) computer-aided engineering (CAE) simulation platform and the RADIOSS Implicit solution demonstrates unmatched performance using a hybrid parallelization approach, significantly reducing the time needed for computer simulation analysis. The RADIOSS Implicit direct solver is employed extensively in structural analysis and sensitivity calculations, while the RADIOSS Implicit iterative solver is suited to solving large engineering models with millions of degrees of freedom.

# CIMdata PLM Industry Summary

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By offloading the intensive matrix computation from either of these two solvers onto NVIDIA GPUs and using heterogeneous GPU and CPU computing, the solver's speed can be increased significantly when compared to a multi-core CPU-only approach. This innovative hybrid parallelization -- based on message passing interface (MPI) to decompose over multiple GPUs using NVIDIA® CUDA® and multiple CPU cores with OpenMP parallelism -- allows a dramatic reduction in solution time. Test results utilizing an NVIDIA Tesla® M2090 GPU have demonstrated up to four times faster acceleration in performance, as compared with the latest six-core CPU running the same simulation.

"Altair has some of world's best solver products, from structural optimization to computational fluid dynamics to multiphysics simulation, and our collaboration with NVIDIA is helping to make us an even stronger player in the solver market," said Altair Senior Vice President for Solver Products Detlef Schneider. "We are committed to continue to enhance our solver solution portfolio, including innovations based on the advancement of computing technology, such as general-purpose GPUs."

Users also benefit from accelerated access to compute resources in the cloud, thanks in part to GPU support by PBS Professional, Altair's leading high-performance computing (HPC) workload management product.

Altair and NVIDIA are discussing this hybrid parallelization technique during the [SIGGRAPH 2012](#) exhibition Aug. 7-9 at the Los Angeles Convention Center, at the NVIDIA exhibition booths (634 & 735).

Altair Operations Director Devin Jensen is describing the process in a presentation titled, "Accelerating Simulation and Analysis with Hybrid GPU Parallelization and Cloud Computing," scheduled for Thursday, Aug. 9 from 1:00-1:30 p.m. at the NVIDIA Innovation Theater, in booth 634.

"We continue to work closely with ISVs such as Altair, and the impressive capabilities they're demonstrating are helping us further expand the application of GPU technology," said Andrew Cresci, general manager of strategic alliances, NVIDIA. "We plan to continue to work with Altair on heterogeneous innovations like these that will further capitalize on our combined technologies."

NVIDIA Tesla GPUs were integrated into AcuSolve, the HyperWorks computational fluid dynamics (CFD) application, in 2010. Performance tests of Altair's market-leading GPU-supported CFD flow solver showed as much as a doubling in performance with the NVIDIA Tesla C2050 GPU, compared with the most current quad-core CPU running the same simulation. In addition, PBS Professional currently supports NVIDIA Tesla C2050/2070/2075 and M2050/2070/2090 GPUs.

Official GPU support of RADIOSS will be made available in the next release of HyperWorks. Certification will include NVIDIA Tesla GPUs for compute servers, as well as certification for NVIDIA Maximus™ technology that combines the visualization performance of NVIDIA Quadro® professional graphics with the computing power of NVIDIA Tesla GPUs in a single desktop workstation. PBS Professional will support the forthcoming NVIDIA Tesla K20 GPU, based on the next-generation NVIDIA Kepler™ compute architecture.

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## *AMX Delivers Support to Architects with Over 150 BIM Listings for Autodesk Revit Software*

8 August 2012

AMX® announced the release of 150 new Revit files of its most specified products for easy analysis and specification by design pros in the Revit product database. AMX also updated its agreement with Autodesk – maker of the computer aided design (CAD) software application [Revit](#). AMX is the first control company with listings on the Autodesk SEEK Web site and the new product additions create the most extensive control and automation technology listings available in the building information modeling application.

[Building information modeling](#) (BIM) is a movement, a process and a computer aided design method that employs 3D objects to represent real physical building components like walls, doors - even electrical and plumbing infrastructure. Through the BIM process, architects and engineers can create and manage digital representations of physical and functional characteristics of a facility's schematic. The resulting building information models become shared knowledge resources to support decision-making about a facility from the earliest conceptual stages through design and construction, operational life and eventual demolition.

“With interest booming in intelligent, green buildings, building information modeling has become an indispensable tool for the architectural community,” said Ken Compagna, AMX Senior Systems Designer and director of the AMX BIM initiative. “To help our customers and building professionals stay out front in this important mission, AMX is leading the charge with completion of our BIM endeavor.”

Currently, over 150 AMX products can be integrated into designs using Revit Family Model files (.RFA) available in Autodesk SEEK. These individual products are grouped into 128 Revit Model ‘Families,’ which share similar product characteristics such as the 10”, 7”, and 4.3” Modero X® Series Touch Panels all belonging to the same Modero X Series Revit Model Family. A link to the Autodesk SEEK web site for these product models can also be found on the model's respective product page on AMX.com. Additionally, the models are available on the new InfoComm AViQ repository.

The metadata-intensive Revit file allows the user to design with both parametric 3D modeling and 2D drafting elements and presents hyperlinks to product specifications. As an architect or engineer is drafting plans for a building, he or she can see the size, shape, depth, dimensions, voltage and additional key attributes of the structure and devices – enabling the highest degree of effectiveness; changes in one view are updated across the platform. The files also include supporting documentation including .DWG, .DXF, .PDF and .DOC files as well as manuals, drawings and guides.

“Our relationship with Autodesk has been incredible,” Compagna adds. “They are doing so much to empower the design process and we are excited to have the opportunity to be part of it and make many of our products available for integration into the design. We look forward to growing our relationship and issuing new product models to Revit as we add and update our product families.”

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Included in the expanded AMX listings on Revit are [Enova® DGX Digital Media Switchers](#) and Enova® DVX All-In-One Presentation Switchers. Enova DGX Switchers manage and distribute analog and digital audio and video including HDMI/HDCP from up to 32 sources to up to 32 destinations throughout a building or facility. Enova DVX Switchers are all-in-one conference room solutions for installations where a dedicated control solution is needed – and which can be networked for centralized control.

Also included are the panoramic, multi-award winning [Modero X® Series Touch Panels](#). The Modero X introduces possibly the most intuitive user interface yet developed, allowing meeting presenters to focus on the business at hand and not the technology itself.

To learn more about AMX building information modeling solutions visit <http://www.amx.com> and the Tech Center section called Revit Product Families.

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## ***Aras Announces Latest Release of CATIA V5 Connector for Complex Global Design Environments***

8 August 2012

Aras® today announced the latest release of the CATIA V5 connector PDM workbench by Aras certified partner T-Systems. The CATIA V5 connector embeds Aras functionality into the CATIA V5 user interface, enabling designers to drive collaborative product development from within the CATIA environment.

For global companies that have large, complex assemblies the CATIA V5 connector for Aras provides a highly scalable and secure PLM platform for digital product development.

The CATIA V5 connector leverages the unified CAD data model in the [Aras CAD Integration Platform](#) which includes high performance multi-file check-out. Parallel asynchronous streaming technology moves sets of files across the WAN significantly faster than previously possible with other PLM systems.

### **Highlights include:**

- Management of complex CATIA V5 file structures
- Interaction with PLM data directly in standard CATIA V5 user interface
- Support for both WIP and Release Management
- Controlled enterprise-wide sharing of CATIA V5 designs without additional license costs
- Reservation using Lock and Unlock
- Version and Revision control of CATIA V5 files with configuration management and effectivity

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- Search and Load from CATIA V5
- Enter and edit PLM attributes within CATIA V5
- Bi-directional exchange of properties
- Drawing title block automation
- Automatic thumbnail generation
- Auto generation of enterprise BOM driven by CATIA V5 designs
- Enterprise Change Management with attached CATIA V5 files
- Clear ownership of BOM parts by discipline with ability to make manual updates

The new release of the CATIA V5 connector for Aras is available now. Ideal for companies committed to CATIA V5 that need a practical way forward from SmarTeam, VPM or MatrixOne. Migration services available. For more information visit <http://www.aras.com/integrations/MCAD/catia-v5-connector.aspx>

“Companies that are committed to CATIA V5 need a scalable PLM platform that delivers superior performance and will enable them to optimize their global design processes moving forward,” said Peter Schroer, President of Aras. “The ability to seamlessly manage the most complex CATIA V5 data together with data from multiple other MCAD, EDA, SW/FW systems in a single unified product structure is critical to achieving PLM success for today’s complex products.”

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## ***ARM and Cadence Collaborate to Optimize ARM POP Solutions with Cadence Encounter Digital Platform***

8 August 2012

ARM and Cadence Design Systems, Inc. today announced the availability of the first in a series of combined solutions enabling designers to improve performance, power and time-to-market for ARM® Cortex™-A series processor-based system-on-chips (SoCs). The initial solution optimizes ARM® POP™ intellectual property (IP) technology, using the Cadence® Encounter® digital platform, for the Cortex-A9 processor on the TSMC 40LP process, including ultra low threshold voltage (uLVT). The resulting solution is available for license from ARM to accelerate the implementation of ARM processors.

POP IP is comprised of core-hardening acceleration technology which incorporates the latest ARM Artisan® advanced physical IP to achieve industry-leading power, performance and area (PPA) metrics. In the combined solution, the POP IP is tightly coupled to Cadence Encounter RTL-to-GDSII technologies, including RTL Compiler-Physical and the breakthrough clock concurrent optimization (CCOpt) design technology, resulting in market-leading, certified benchmarks for Cortex-A9 implementations using POP IP.

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This is the latest milestone in the companies' longstanding collaboration to enable their mutual customers to more efficiently design advanced SoCs. ARM is working closely with the Cadence R&D and Design Services organizations prior to the introduction of new POP IP to ensure that customers benefit from the quickest deployment of new ARM processors and/or new process technologies. Extending to TSMC 28HPM, the ARM-Cadence collaboration includes single, dual and quad-core implementations of Cortex-A9 and Cortex-A15 processors.

"As customers face ever-increasing pressure to achieve specific power and performance numbers, our early engagement with Cadence helps ensure that customers choosing our POP IP solutions can achieve higher performance at a lower power than previously available," said Dr. John Heinlein, vice president of marketing, Physical IP Division at ARM. "The extensive implementation knowledge and comprehensive set of benchmarking results that ARM provides in POP technology, combined with a silicon-proven Cadence methodology, also enables customers to dramatically improve their time-to-market."

POP solutions are comprised of three critical elements necessary to achieve an optimized ARM processor implementation. First, it contains Artisan physical IP standard cell logic and memory cache instances that are specifically tuned for a given ARM processor and foundry technology. Second, it includes a comprehensive benchmarking report to document the exact conditions and results ARM achieved for the processor implementation across an envelope of configuration and design targets. Finally, it includes the detailed implementation knowledge including floor plans, scripts, design utilities and a POP Implementation Guide, which enables the end customer to achieve similar results quickly and with lower risk.

The Cadence Encounter RTL-to-GDSII flow helps design teams optimize power, performance, and area for the world's most advanced high-performance, energy-efficient ARM processor-based designs. The integrated Cadence flow includes Encounter RTL Compiler, Encounter Digital Implementation System, and signoff-proven Cadence QRC Extraction, and Encounter Timing System. In addition, the CCOpt technology unifies clock tree synthesis with logic/physical optimization resulting in significant power, performance and area improvements.

"Working closely with the ARM engineering team, we have been able to deliver industry-leading performance, power and area for advanced ARM-processor implementations," said Dr. Chi-Ping Hsu, senior vice president, Silicon Realization Group at Cadence. "The result of this combined effort enables customers to deliver the highest quality of silicon while meeting aggressive time-to-market goals."

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## ***Better Rendering in Cabinet Vision V8***

6 August 2012

Cabinet Vision's rendering features are its best ever in the latest release of the manufacturing software for cabinets and casegoods being demonstrated at W12, the UK national exhibition of machinery,

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materials and components for the joinery and furniture manufacturing industries.

Cabinet Vision's UK Sales Manager Shaun Boit says the new rendering inside the latest release, V8, which uses global illumination, is the best he has seen during six years of working with the software. "Woodworking manufacturers use Cabinet Vision's rendering as a marketing tool, showing their customers exactly how the cabinets will look in situ. Now those renderings look even better."

Other new features include the capability to import BXF files from Blum Dynaplan, to automate all machining for their designs and components. And Autocad designs can now be imported straight into Cabinet Vision's Screen-To-Machine Centre, for even faster toolpath creation, nesting and machining.

As well as seeing on-screen demonstrations, visitors to W12 can see Cabinet Vision in action on a number of machine manufacturers' stands. It is likely to feature live demonstrations of Nesting and Part machining, including machining of Dovetail drawers and DXF components.

Business Manager Marie Cassidy says as well as being one of the woodworking industry's most popular nested based software, Cabinet Vision has the ability to machine on point-to point, vertical and horizontal machines, and readily works with saws, and drill and dowel machines.

Also, a number of Cabinet Vision customers will be on the stand at various times of the show to explain to visitors how the software helped them take their businesses to the next level. "There will be third party examples showing how we customise post processors, enabling Cabinet Vision to connect to virtually any machine on the market," she says.

Sharing the stand with Cabinet Vision, is Alphacam. Amongst its many features visitors will see Alphacam's router machining capabilities, its cabinet door manufacturing and automated parametric programming, and how it creates stunning low relief carvings from 2D designs and 3D models, which is proving popular for carving decorative ornate panels and doors, swept flourishes, custom millwork, architectural mouldings, dimensional signage, bespoke company logos, custom gifts and awards.

Alphacam engineers will be on hand to demonstrate the software's capabilities, including automatically optimising a Rough/Finish Toolpath to only remove the area left by a previous sawing operation. "This minimises the cycle time and increases productivity – which manufacturers tell us are vital aspects of their shopfloor processes," says Alphacam General Manager Nick Spurrett.

A simulation enhancement gives improved support for rapid moves with an all-new Automatic Rapid Manager. Rapid positioning moves between 5-axis operations and work plane operations are now automatically created by setting just one "Safe Level" value.

Cabinet Vision and Alphacam: Stand 7F 684

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## ***Delcam's Latest PowerINSPECT for Inspection and Reverse Engineering***

9 August 2012

Delcam has released the 2012 R2 version of its PowerINSPECT software for inspection and reverse engineering. This includes enhancements to the inspection capabilities and also continues the development of the reverse engineering capabilities introduced earlier this year. The main enhancement in this area has been an expansion of the Digitised Curves capabilities to create a powerful re-engineering and modelling tool.

Improvements to the inspection functionality include a new, simplified procedure enabling users to quickly calibrate the probe assembly by probing a single point anywhere within the measuring envelope; a new offset-alignment method that aligns the part with the axes of the CMM while setting the position with a single point measurement; and new point-cloud options that make it easier to modify and reuse digitised curves and points, with options for editing, deleting and resuming measurement of the points and curves.

The automated section-measurement functionality, which was previously only available in the manual version of PowerINSPECT, is now available in both the OMV and CNC offline-programming versions. This strategy for creating probe paths along a section of the component provides quick and easy comparison of a cross-section against the CAD model. This type of section measurement is important for the measurement of blades and aerofoils, as well as for automotive inspection.

New options within Digitised Curves allow edges, holes and gaps to be identified as the part is being probed. Curves can also be created from CAD models within PowerINSPECT or they can be imported directly from other software packages. All these curves can be modified by rotation, translation, mirroring or scaling, or by editing individual points within the curve.

Once created, curves can be exported as polylines as well as to the previously-available NURBS format. This enhancement is part of a general increase in the ability to export surface and geometric items for use in modelling applications, with VDA export added to the existing IGES format.

The new creation and editing options for curves can be used with a new marking out feature for refining or completing clay models- a requirement for creating automotive and marine styling models. This utility enables curves created within PowerINSPECT to be used to guide a marking out tool on a measuring device or layout machine.

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## *Delcam's New PowerSHAPE CAD Enhances Direct Modelling and Reverse Engineering*

7 August 2012

The 2013 release of Delcam's PowerSHAPE CAD system will be featured on booth E-3222 at the IMTS exhibition to be held in Chicago from 10th to 15th September. This includes enhancements to its direct modelling and reverse engineering capabilities that will make the software both more flexible and even easier to use, plus solid and surface modelling options that have been made faster and even more robust. Full details are available on the PowerSHAPE 2013 learning zone at <http://lz.powershape.com>.

PowerSHAPE provides the most comprehensive range of modelling techniques available in a single CAD program. Having all the different technologies in the same package reduces the need to transfer data between multiple programs and so streamlines the whole product-development process. The broad range of functionality makes PowerSHAPE ideal for the re-engineering of existing products into improved designs or for creating specialised items. At the same time, the combination of quick and easy direct modelling options, together with powerful and flexible surface modelling, makes PowerSHAPE the perfect choice for design for manufacture, especially when converting product designs into tooling designs.

The most important new option in PowerSHAPE's direct modelling functionality is "Replace Face". This allows a selected face or group of faces to be replaced with another face or group of faces, either from the same solid, or from a separate solid or surface model.

In its most basic form, "Replace Face" can be used for offsetting surfaces of the model to provide machining allowances or clearances for electrodes for EDM. It can also be used for more complex modifications to product designs. In all cases, any other faces within the design that are affected by the change are extended and re-trimmed as necessary to maintain a closed solid.

A second new option that will be of particular interest to tooling designers will be the "Solid Core" command. This selects automatically the smallest rectangular or cylindrical shape that will fully enclose a group of solid faces. It can be used to create blanks for the manufacture of electrodes or when modelling slides within moulds to accommodate undercuts. The shapes can be selected from spreadsheets, for example one showing different standard sizes for electrode blanks, that can be edited to each company's specifications.

The main improvement to the existing direct modelling tools has been a simplification of the selection and editing of faces. Groups of faces can now be selected by surrounding them with a boundary, either by dragging the mouse or by clicking a series of points. Simpler methods have been added to then rotate the selected faces around a point or a cylinder, or to move them along a line.

For reverse engineering, PowerSHAPE now allows point-cloud data to be captured directly. Point data can be displayed on-screen instantly as a laser attachment is passed over the object being scanned. This ensures that all the required information can be captured as any gaps in the data will be apparent

immediately.

Another new option in PowerSHAPE 2013 is the ability to perform 2D nesting of 2D profiles or 3D parts. Once the numbers of each component required and the minimum spacing needed between each item have been specified, PowerSHAPE calculates the most efficient layout using the minimum amount of material. The shape of any unused material can be saved so that it can be used for later projects. The nesting option will be important for any company using sheet materials, including those in the press tool, composites and footwear industries, or for laying out multiple 3D parts for effective machining.

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## ***FISHER/UNITECH to Provide SolidWorks Electrical***

7 August 2012

FISHER/UNITECH, reseller of SolidWorks® 3D design software, will now offer SolidWorks Electrical, a new product developed by Dassault Systemes. SolidWorks Electrical applications include an innovative system level 2D schematic design tool and a powerful 3D electrical modeling add-in to SolidWorks. All project design data is synchronized with real-time, bi-directional updates. The new product provides a range of electrical system design functionality to meet the needs of design professionals.

“SolidWorks Electrical brings an exciting new application to our customers that will enable them to further leverage their investments in SolidWorks and source additional productivity and cost savings,” said Charlie Hess, President and CEO of FISHER/UNITECH. “This new product supports the fast growing field of mechatronics that many companies have already recognized the need to automate and support.”

SolidWorks Electrical provides new capabilities and is offered in three applications – SolidWorks Electrical, SolidWorks Electrical 3D and SolidWorks Electrical Professional. All three offer an easy solution for mechanical and electrical engineering teams to collaborate, reduce delays, lower costs and get to market faster. SolidWorks Electrical includes 2D schematic design tools and 3D component models. Automated management tools streamline design of complex PLC connections. With SolidWorks Electrical 3D users can integrate electrical schematic design data from SolidWorks Electrical with the 3D model of a machine or other product. Users can place all electrical components in 3D, then connect everything and determine lengths of wires, cables, and harnesses. SolidWorks Electrical Professional is a single package that combines the 2D electrical schematic functionality of SolidWorks Electrical and the 3D integration of SolidWorks Electrical 3D.

SolidWorks Electrical will be available in August 2012. For more information on SolidWorks Electrical, its capabilities, and how to buy visit <http://www.funtech.com>.

**About FISHER/UNITECH** (<http://www.funtech.com>)

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FISHER/UNITECH, established in 1993, provides Product Lifecycle Management solutions to discrete manufacturing companies. The company's focus is on process improvement for product development. Process improvement is obtained through the integration of advanced software solutions to replace legacy systems. The applications are focused on design, engineering and manufacturing. Professional services are offered for design automation and data management which provides customers with a full service, one-stop source for complex PLM systems. The company offers advanced web-based delivery of education programs with its interactive, instructor-led 3DU. Please visit the company's website at (<http://www.funtech.com>)

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### ***Gerber Technology Launches New Precision Spreading System for Extremely Heavy Materials and Large Diameter Rolls***

6 August 2012

Gerber Technology announces the availability of its newest precision spreading system, the [GERBERSpreader 250s](#), which accommodates material rolls weighing up to 250 kgs. (550 lbs.) and spreads at speeds up to 100 meters per minute without tension. In addition, precision selvage and end alignment technology maximizes material utilization.

Ron Ellis, product manager for Gerber Technology, said, “This addition to our GERBERSpreader line enables apparel manufacturers cutting denim, corduroy or knits to spread from very heavy rolls. It also enables makers of automotive interiors and transport seating to spread foam laminate materials from very bulky rolls using an extra-large cradle that can accommodate rolls up to 120 cm. (47 in.) in diameter.”

The GERBERSpreader 250S is available in multiple widths. It maximizes material utilization using adjustable infrared photocells that ensure accurate selvage alignment and precision end alignment technology that eliminates material end loss. Using built-in intelligence, the system also reports the amount of material used from a roll and the amount lost to defects or flaws.

The GERBERSpreader 250S effectively addresses worker safety and ergonomics issues in several ways. The spreader’s cradle feed system is equipped with an electric cradle tilt that enables fast and easy loading/unloading and threading/rewinding of material rolls. An optional loading system lifts heavy fabric rolls from the floor to the spreader cradle and vice versa making it easy and safe to load and unload rolls. In addition, sensors located on both sides of the GERBERSpreader immediately halt the system when an obstacle is in its path.

Ellis noted, “Throughout our 45-year history, customers have come to rely on Gerber to provide a total cutting room solution that includes spreading tables, advanced spreading systems and computer-controlled cutting systems. This newest spreading system is the ideal addition to our suite of solutions because it is not only fast, precise and ergonomically-sound, it also delivers significantly improved material utilization.”

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## ***Kenesto Business Process Automation Is Updated***

9 August 2012

Kenesto Corp. ([www.kenesto.com](http://www.kenesto.com)) today announced that an updated release of Kenesto™, the company's cloud-based business process automation system, is now available. Kenesto delivers what managers, designers and engineers want as they develop, support and enhance products and deliver them into the market. For example, purchasing managers can easily manage complex request for quotation processes (RFQ), including all outside suppliers. Critical engineering change request (ECR) processes are tracked and monitored in the cloud. And managers who prepare bid packages can rapidly assemble and approve everything needed to win intricate bids.

“Reaction to our June release of Kenesto has been overwhelmingly positive,” said Michael Payne, CEO, Kenesto Corp. “Since then, customers have been very helpful in building our product roadmap. With Kenesto 2012.2 we responded to many of those customer requirements in a short 60-day period by taking advantage of the cloud platform on which Kenesto is based. As compared to traditional, installed products, the cloud is an important change in the way [business process automation](#) systems are delivered. As a result, users immediately get the benefit of new releases with no effort on their part.”

Kenesto 2012.2 offers new capabilities designed to improve Kenesto's usability, improve manageability and encourage reuse of processes. Highlights of Kenesto 2012.2 include:

- *A new guidance layer.* Kenesto users are productive immediately without the need for extensive training or documentation. However, new users may benefit from an automated walk-through in performing their initial tasks in Kenesto. A new guidance layer in Kenesto 2012.2 makes it simple for new users to begin using the process automation system.
- *Process templates for commonly used business processes.* A major advantage of Kenesto over legacy PLM systems is that it does not require any programming or scripting. As users develop processes, they may wish to save these processes as templates. Kenesto 2012.2 now offers a graphical way to create and edit reusable templates. A user simply outlines the process as he or she normally would using the new template editor and saves it in the cloud. Then, the user may launch a specific instance of the process to accomplish the task. This requires no programming skills while delivering the full power of Kenesto in the cloud to manage business processes.
- *Kenesto 2012.2 support for multiple domains in one Kenesto account.* Larger enterprises may operate multiple businesses units using different names and/or Internet domains. Kenesto 2012.2 now flexibly supports these companies' needs to permit different email addresses and business identities to co-exist in the same Kenesto account.
- *Background upload of attachments and documents.* Kenesto 2012.2 has been enhanced to upload documents and attachments to the cloud in the background, allowing a user, for example, to attach a large drawing or document to a process activity and continue working in Kenesto without having to wait for the upload to complete.

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## ***Lithium-Ion Battery Cell Simulation Technology Unveiled***

7 August 2012

CD-adapco announces the release of a computer-aided engineering tool, called STAR-CCM + Battery Simulation Module, designed to simulate spirally wound lithium-ion battery cells. The technology is aimed at helping the automotive and battery industries more quickly design and develop advanced electric drive vehicle power sources.

The project, which began in August 2011, is co-sponsored by the U.S. Department of Energy's (DOE) National Renewable Energy Laboratory (NREL). The new spiral cell software was developed within the first year of a multi-year award.

“Proliferating simulation methods in the new and rapidly changing field of lithium-ion battery development is the goal of the CAEBAT (Computer-Aided Engineering for Electric Drive Vehicle Batteries) project,” said Ahmed Pesaran, Energy Storage group team leader at the NREL. “By including such models in to their mainstream product, CD-adapco is supporting the Department of Energy to meet these goals.”

The tool was created in conjunction with Battery Design LLC, Johnson Controls, Inc., and A123 Systems.

“It is CD-adapco's strategy to collaborate with experts in emerging fields, such as electrochemistry, to develop customer focused solutions,” said Steve Hartridge, Director of Electric & Hybrid Vehicles at CD-adapco. “By capturing the process, data and knowledge of experts involved in this project, CD-adapco enables a wide audience to begin applying simulation methods to the design of lithium-ion cells.”

Battery Design LLC's President Robert Spotnitz, a 30-year veteran of analytical methods applied to electrochemistry, added, “The code includes some of the latest techniques for modeling electrochemical and thermal performance. It's great to see these methods become mainstream.”

This computer simulation technology project was one of three chosen to support the DOE's CAEBAT program to reduce petroleum consumption and greenhouse gas emissions. DOE's Office of Energy Efficiency and Renewable Energy provided the funding.

Goals of the project include developing battery engineering tools to design cells and battery packs; validating the accuracy of those tools; shortening prototyping and manufacturing processes; improving overall battery performance, safety, and life; and reducing battery costs.

The release of this tool is a significant milestone for the CD-adapco project which is a result of a competitive procurement through NREL that was awarded to CD-adapco last year (<http://www.nrel.gov/news/press/2011/1472.html>). The program will run for two more years.

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## ***Luxion Introduces KeyShotVR: Interactive Web Viewing of High-quality 3D Rendered Images***

7 August 2012

Luxion is pleased to introduce KeyShotVR™ an all new, patent-pending technology from Luxion that allows interactive viewing of photographic, high-quality rendered content via the web.

### **What is KeyShotVR?**

[KeyShotVR](#) bring the advantage of interactive 3D-enabled viewing via desktop, laptop or mobile device to product portfolios, presentations and collateral for design reviews. Product designers, marketers and KeyShot users who want to extend the presentation of their visuals are able to create the high-quality, ray-traced 3D content directly from inside KeyShot. KeyShotVR is an integrated add-on to KeyShot Pro that automatically generates the code to be embedded into any website or company intranet, making it a turnkey solution for web content creation.

With KeyShotVR, users can create high-quality, touch-enabled, 3D rendered content capable of being displayed in any web browser supporting HTML5. The content can be viewed using mouse or finger on touch-enabled devices and does not require a browser plugin to work. Furthermore, KeyShotVR is not WebGL based and is therefore able to deliver the highest quality of images possible across the widest range of devices.

### **How it works**

With KeyShotVR enabled via an upgraded KeyShot license file, an additional VR button will appear in the toolbar. When a scene is loaded and the VR button is pressed, a wizard guides the user through the setup of the VR, with on-screen, interactive feedback of the final VR result. KeyShot will produce the individual images of the VR content, the HTML code for integration into any website and the JavaScript to support progressive loading of images.

### **Features and Specifications**

There are two parts to KeyShotVR that allow KeyShot users to quickly set up a model for VR output.

KeyShotVR Setup:

- 4 possible VR types: Turntable, Hemi-spherical, Spherical, Custom
- Set starting angle interactively
- Set horizontal / vertical frames including start and end angle for custom VR
- Realtime feedback when setting up the VR – play back, tweak, etc. for desired result
- Compression Quality control – keeps digital footprint small while ensuring highest quality images
- Control over zoom (in/out)
- Adjustable rotation damping
- Support for render in background, render queue, network rendering

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- Support for render queue
- Support for Network Rendering
- Unlimited output resolution
- Output: jpeg
- Floating license feature – KeyShotVR can be checked out separately when checking out a floating license.

## KeyShotVR:

- Progressive loading of images – rotate images as soon as they start loading
- Support for zoom in/out
- Touch enabled – rotate, zoom, pan
- Support for LOD (Levels of Detail) – load lower resolution images for faster loading
- Customizable settings to adjust user experience: rotation damping, mouse sensitivity, zoom in/out, start frame, LOD
- Customizable play and resize buttons

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## ***Luxion Partners with DuPont Performance Coatings to Replace Traditional Paint Swatch***

6 August 2012

Luxion, a developer of 3D rendering and lighting technology and makers of KeyShot®, is pleased to announce that DuPont Performance Coatings will link its proprietary digital color rendering technologies with Luxion’s digital object rendering software. This will allow DuPont customers in the transportation and aerospace industry to use KeyShot to get a full understanding of color and paint of their products in real time without having to rely on physical samples.

Relying on Luxion’s proven rendering technology, KeyShot users will be assured they end up with the right paint color every time instead of having to rely on the traditional 2” by 4” paint chip. With the capability to instantly apply and view dozens of accurate coating colors under real world lighting conditions, users can make decision with confidence directly on the digital model enhancing the product development, sales and marketing processes.

“DuPont Performance Coatings is pleased to partner with Luxion, a leading visualization software developer,” said Dan Benton, DuPont Performance Coatings North America color marketing manager. “The combination of digital solutions from Luxion and DuPont will allow customers to accurately render objects and color, allowing for faster decision making, and lower costs.”

DuPont Performance Coatings has been recognized in color coatings for over 90 years. DuPont scientists have developed some of the most innovative colors, and color tools in the industry. DuPont

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was the first company to use colorimeters in automotive coatings, apply algorithms to measure, and adjust color formulas. The extension of DuPont's expertise in color science technology is leading efforts to visually render color coatings. Luxion's technology will offer designers and customers the ability to visually display colors from DuPont's automotive color libraries.

Accurate digital color rendering is important in communicating color in any industry under different illuminating conditions. In the automotive industry color rendering requires the visual differential between solid colors and metallic colors. DuPont has lead the industry in color rendering as their scientists have explored this area for the past 40 years. Today's methods are growing to expand into the newest pigment and paint technologies as they become available.

Luxion Co-Founder and Chief Scientist Dr. Henrik Wann Jensen stated: "We're extremely pleased to be the technology partner of coatings industry leader DuPont Performance Coatings to take advantage of their color science initiatives. This is an excellent demonstration of two companies in different industries coming together to deliver a rendering software solution that customers have needed for many years."

To experience the first implementation of Luxion's partnership with DuPont, visit Luxion's booth #1101 at the upcoming Siggraph 2012, August 7 – 9 in Los Angeles, CA.

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## ***Mastercam's OptiRest Toolpath Slashes Roughing Time***

9 August 2012

OptiRest is the latest 3D high speed toolpath from Mastercam. It performs rest rough milling operations to remove stock left from roughing passes with large cutters. This powerful new toolpath compares the in-process stock model to the intended shape to create an optimized dynamic milling cleanup pass. The result is precise, efficient motion that is easier on your tooling and your machine.

The toolpath supports cutters capable of machining very large depths of cut. It uses an aggressive, fast, intelligent roughing algorithm based on Mastercam's 2D high speed dynamic milling motion. A single toolpath can cut material in two directions: on step downs (-Z) and step ups (+Z). This highly efficient bi-directional cutting strategy removes the maximum amount of material with the minimum of step downs, significantly reducing cycle times.

"The beauty of OptiRest is that you don't need any special tooling to use it. It simply uses the tools you have now, but in a much more efficient way," says Gary Hargreaves, VP, Business Development.

For more information on Mastercam's OptiRest toolpath, please visit [www.mastercammill.com](http://www.mastercammill.com).

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## **OPEN MIND Releases *hyperMILL*® 2012**

8 August 2012

OPEN MIND Technologies AG introduces the new version of its *hyperMILL*® CAM solution. Highlights of the 2012 version include automatic programming options for rectangular pockets, optimizations for 3D roughing and new strategies for 5axis machining of impellers and blisks. Other changes improve calculation times and programming times.

The new 'adaptive pocket' machining mode allows for automatic programming of rectangular pockets. Within a machining job, classification occurs automatically in closed and open pockets and rectangular levels. According to the various accessibility conditions for the tool and relative sizes of the tool and pocket, *hyperMILL*® automatically selects the most suitable machining method: spiral, contour-parallel or peeling. The optimized clearing movements take place in long, straight paths with constant cutting conditions. Critical full cutting areas are parameterised separately, allowing control over feedrate values and reduced production times.

**Time-saving 5axis strategies.** The ways in which machining times have been shortened are both simple and ingenious: During 5axis shape offset machining with *hyperMILL*®, users now avoid redundant movements thanks to the new axial sorting option that makes it possible to divide machining by area. This allows corners or pockets, for example, to be machined individually one after another. The user can decide whether to create toolpaths with offset level sorting or axial sorting.

There are several new features for roughing in the 5axis impeller and blisk package. For machining of impellers, for example, it is now possible to divide the machining region into a left and right pocket between the main blade and the splitter. This new option means that these areas can now be machined with different tools in a targeted manner.

The flank mode during roughing enables swarf cutting near blade surfaces. The user can decide whether to use the swarf mode for every step or just for the last step. This extension results in a consistent stock allowance for finishing. Production time can also be reduced here as preliminary finishing can be skipped.

**Optimal tool use.** *hyperMILL*® 2012 supports tapered tools for 3D ISO machining - including automatic collision avoidance. In the process, the entire tool is checked for collisions against the model, which ensures high process reliability. Tapered tools offer more stability, reduce tool vibrations and improve surfaces simultaneously.

For turning operations, *hyperMILL*® functionality has been extended to include inclined grooving. This is why offset tools can now also be used. The tool database has therefore been expanded to include these recessing tools.

**Toolpaths and tool life.** Pocket milling has been improved in the 3D roughing area. As a result, for the machining of pockets, the ramp is moved continuously in one direction. The pocket is then cleared from

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the outside in. Advantage: Thanks to the continuous inward movement of the ramp, the tool path is optimized, and zig-zag movements are avoided.

This software release will be debuted at the **IMTS trade show (booth E-3351)** in Chicago from September 10 through 15.

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## ***Scia Engineer 2012 Tested and Certified to Run on Mac OSX Under Parallels***

8 August 2012

The Nemetschek Engineering Group is pleased to announce that Scia Engineer 2012 has been tested and certified to run on Apple Macintosh OS X Hardware using Parallels. Now, structural and civil engineers can feel confident running Scia Engineer alongside their favorite Macintosh OS X software.

“With ArchiCAD, the Allplan/Parallels software bundle, Cinema 4D, Vectorworks, and now Scia Engineer, Nemetschek supports more Macintosh designer than any other AEC (Architecture, Engineering, and Construction) software developer,” says Jean-Pierre Rammant, CEO, Nemetschek Engineering Business Unit. “As we expand our product portfolio and introduce our software into emerging markets being able to support the global Macintosh design community is key to our corporate strategy.”

Scia Engineer 2012 has been tested on Mac OS X with Parallels Desktop 7 virtualization software. The specifications used during the tests:

### Hardware

- MacBook Pro 15” Intel Core i7 2,4 GHz CPU
- 6 GB DDR3 RAM memory
- AMD Radeon HD 6770M with 1 GB RAM
- 1440 x 900 pixels screen resolution
- 750 GB 5400 RPM hard drive

### Software

- Mac OS X Lion 10.7.3
- Parallels Desktop 7
- Windows 7 Professional 64 bit
- Scia Engineer (tested from version 2011)

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## *Spatial Introduces New Graphical Import Component with the R23 Release of 3D InterOp and 3D ACIS Modeler*

8 August 2012

Spatial Corp., has announced the R23 release of [3D ACIS® Modeler](#) and [3D InterOp](#) for CAD file translation. This latest release delivers a combination of enhancements to existing functionality and additional market-driven features, as well as the introduction of new components to better address the needs of 3D application developers. “R23 is a substantial release because it contains so much development driven directly by customer input,” explained Ray Bagley, Spatial Director of Product Planning and Management. “Whether they are tactical enhancements to 3D InterOp, like importing hidden entities from Creo, or following strategic goals like multi-threading the faceting algorithms in 3D ACIS Modeler, we continually seek to build the best product roadmap around our customers’ goals.”

One of the new component options available to developers is a set of 3D InterOp Graphical translators. Using these new translators, developers have access to the native graphical representation of the original CAD model, including graphical PMI, for all 3D InterOp supported formats. The ability to extract graphical information, independent of other data, is a substantial boost in the functionality of 3D InterOp, enables a broad range of workflows, and addresses a high priority need of 3D application developers. “With access to both the tessellated data and the graphical PMI, developers are much closer to having behavior identical to opening the file in the originating CAD system with regards to functionality and performance,” explained Vivekan Iyengar, Director of Interoperability for Spatial.

Most application developers will benefit from performance improvements in both 3D ACIS Modeler and 3D InterOp. As part of Spatial’s continuing multi-core strategy, 3D ACIS Modeler includes support for multi-threaded faceting with thread management handled completely within the modeler. Restoring of SAB models, a function used by most ACIS applications, brings dramatic speed improvements. For 3D InterOp, enhancements to most of the translators also deliver significant performance improvements. Application developers can combine the performance enhancements to 3D ACIS Modeler and 3D InterOp to achieve optimal results.

### **Three New Translators Plus Additional Enhancements in 3D InterOp**

The R23 release includes updates to provide support for the latest CAD file formats. With the introduction of 3D InterOp Graphical, developers can take advantage of new support for 3DXML for the import and export of graphical geometry and graphical PMI. This new capability enables sharing and collaboration through a light-weight 3D publishing format.

New 3D InterOp translators are available for the Parasolid, SolidWorks, and Unigraphics NX file formats which do not rely on the availability of 3<sup>rd</sup> party software products. These new “Direct” translators are available in addition to the existing translators for these formats. Developers continue to have the option of leveraging native libraries if they are available.

The R23 release of 3D InterOp includes a host of format-specific enhancements. For details, consult the

[“R23 Release Notes for 3D InterOp”](#).

## **3D ACIS Modeler Includes Feature Detection, Fuzzy Boolean Improvements and More**

Driven by the ongoing priority for advancements to core algorithms, 3D ACIS Modeler extends Boolean and Stitching capabilities. 3D ACIS Modeler includes enhancements to several of the Fuzzy Boolean operations. These types of operations are especially useful in applications which use an approximation of a piece of geometry in a Boolean operation. ACIS is now better able to handle near-coincidence between surfaces that previously would have resulted in sliver faces, performance problems, or even failure.

New cellular topology capabilities allow developers to attach attributes, such as material properties, to volumetric cells. These attributes can then migrate through Boolean and Glue operations. Additional enhancements to the Glue operation provide non-regularized unite capabilities. This is especially useful in flows where manifold solid bodies are joined along coincident faces, providing a big gain in performance compared to using the standard unite operator.

Seeded feature detection is also available in 3D ACIS Modeler R23. This new capability offers significant benefits to direct-modeling applications and other workflows. Feature detection functionality helps in the identification of protrusion and depression features as well as blends. Developers have the flexibility to specify whether or not the blends at the boundary of a depression or protrusion feature are to be included as part of the feature.

3D ACIS Modeler also includes new APIs for the extrusion of simple planar faces with unnecessary error checking and other overhead eliminated. This new API is up to 90% faster and offers significant benefit to industries such as EDA, CAE, and AEC.

“Intergraph utilizes the 3D ACIS Modeler in large-scale design processes, the automatic creation of large and complex engineering drawings, and the generation of high-quality manufacturing data. The application of the 3D ACIS Modeler involves ‘high volume modeling’ workflows where performance, stability, and robustness are mission critical to our success,” said Bucky Howell, Executive Manager at Intergraph. “The new functionality in the R23 release provides significant value for continued improvements in our applications. Most notable, the buffered SAB file restore offers significant improvements in the retrieval of large amounts of data, and the edge sampling API will improve workflows for inputs with high curvature, common in the shipbuilding industry.”

For a complete list of improvements see the [“R23 Release Notes for 3D ACIS Modeler”](#).

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***Synopsys Launches Industry's First Technical Community Site Dedicated to Users of Verification IP***  
8 August 2012

Synopsys, Inc. today announced the launch of VIP-Central.org, the industry-wide, technical community site focused on system-on-chip (SoC) verification engineers and users of verification IP (VIP). The site provides a centralized online resource of relevant forums and blogs focused on verification of industry-standard protocols. VIP-Central.org is the go-to source for the latest technical information and discussions on the use of verification IP and advanced verification methodologies to verify protocol-based IP as well as IP integration, SoC sub-systems and full SoCs.

VIP-Central.org aggregates information from industry experts across the verification community, providing best practices and ideas for better verification performance, protocol debug, methodology, verification planning, coverage management and ease-of-use.

"As each new SoC adds the next generations of different IP blocks, IP subsystems and frequent releases of new protocols, SoC companies are required to quickly ramp their verification teams to embrace these changes," said Rich Wawrzyniak, senior market analyst for ASIC and SoC at Semico Research. "The launch of VIP-Central.org as a technical resource for protocol-based verification will improve ramp times, act as a repository of knowledge and expertise for designers, and also enable the verification IP experts in the industry to share their best practices with the verification community."

With the increasing number of complex protocols used in SoCs, verification engineers face a tough challenge to quickly acquire the protocol expertise needed to verify a SoC as well as all of its on-chip fabrics and off-chip interfaces. The challenge is made tougher by the frequent release of new and more sophisticated generations of protocols to improve performance, power and quality of service.

Verification engineers must complete many tasks requiring both protocol and methodology expertise including developing environments, integrating VIP, using and modifying test sequences, debugging complex protocol results and analyzing coverage data. VIP-Central.org is designed to help engineers quickly understand the intricacies and foibles of each protocol and how to effectively utilize industry-available verification IP to verify these protocols while employing methodologies such as UVM, OVM and VMM.

"VIP-Central.org represents an important milestone for the VIP user community," said Janick Bergeron, verification fellow at Synopsys. "As protocols become more intricate and SoC verification complexity continues to grow, VIP-Central.org offers a community-driven portal to share the learning from our successful customer VIP engagements, and enable exchange of ideas with other VIP experts, users and the entire SoC verification community."

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