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## Acquisitions

### ***PTC Adds Integrated Logistics Support (ILS) for A&D and Civil Aviation with Acquisition of LBS***

7 November 2007

PTC announced it has acquired Logistics Business Systems ([LBS](#)), a leading integrated logistics support (ILS) solutions provider to the aerospace & defense (A&D) and civil aviation industries. Based in Preston, UK, LBS was established in 1995. LBS solutions are already integrated with PTC Arbortext® and together offer the industry's only turn-key solutions for S1000D-compliant technical publications, provisioning, training and e-learning, and logistics support analysis. As a result of the acquisition, PTC becomes the only PLM provider to offer a complete solution for ILS.

The combination of PTC and LBS will facilitate the reuse of product design and configuration data such as CAD, BOM, change management information and logistics information. As a result, A&D and civil aviation organizations will be able to deliver standards compliant product support information in the form of technical publications, illustrated parts catalogs and training materials.

“SELEX Sensors and Airborne Systems have already been using PTC Arbortext in conjunction with LBS’ ILS solutions to meet our S1000D technical publications and S2000M provisioning requirements,” said Scott Mackintosh, spares documentation lead, SELEX Sensors and Airborne Systems. “We believe that the acquisition of LBS by PTC will lead to a much tighter integration of the solutions that will help improve the quality of publishing content and the overall efficiencies around the publishing process.”

The acquisition of LBS underscores PTC’s commitment to organizations in the A&D and civil aviation industries and helps address the challenges they face in light of increasing regulation and globalization trends. Customers can immediately leverage the existing integration between PTC’s dynamic publishing software, Arbortext, and LBS’ products to meet S1000D and other ILS requirements. S1000D, a standardized approach to dynamic publishing, is mandated for all defense contracts in Europe and has also been adopted as a requirement at many large defense contractors and civil aircraft programs in the US and Asia. With LBS, PTC will additionally be able to support other key processes compliant with industry regulations, including provisioning compliant with S2000M, training and e-learning compliant with SCORM, and logistics support analysis (LSA).

“The combination of PTC’s enterprise PLM expertise in the A&D industry and LBS’ market-leading proficiency in ILS will now provide customers with an unparalleled depth of industry knowledge around the most pressing product development and aftermarket support challenges facing the A&D and civil aviation industries,” said C. Richard Harrison, president and CEO of PTC. “PTC is dedicated to evaluating how we can best serve our customers and will continue to leverage both organic and inorganic strategies to add new capabilities to our product portfolio that drives business value for our customers.”

"This acquisition is consistent with PTC’s previous acquisitions of Arbortext, for dynamic publishing, and ITEDO®, for 2D and 3D technical illustrations, and creates the industry’s most comprehensive publishing solution for technical documentation, regulatory compliance and aftermarket support in the A&D and civil aviation industries,” said Jim Heppelmann, executive vice president and chief product officer of PTC. “The increasingly global nature of the A&D and civil aviation industries is prompting

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organizations to rethink and optimize aftermarket support and logistics. With LBS, PTC will be able to provide a more complete solution to organizations that would like to leverage ILS to improve information quality and time-to-market through repurposing product and logistics information.”

[PTC](#) plans to offer the LBS solutions standalone or with the PTC Product Development System (PDS) and plans to maintain interoperability and integration with various CAD and PLM solutions. The timing of any product release or integration, including any features or functionality, is subject to change at PTC’s discretion.

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## Company News

### *Dassault Systèmes Appoints Anne Asensio as Vice President of Design Experience*

6 November 2007

Dassault Systèmes (DS) announced that Design Executive, Anne Asensio, has joined DS as Vice President of Design Experience.

“Anne’s mission is to evangelize and reveal the full potential of DS’s portfolio and technology to our customers, so that they can exploit the power of design for innovation,” says Bernard Charlès, president and CEO, Dassault Systèmes. “Our 3D solutions are the ideal medium for designers, where they can intuitively and freely play with concepts, and then have them perfectly realized through 3D PLM. Design Experience and PLM are strategies that naturally fit together and will benefit all actors in the product ecosystem. We are thrilled to have Anne on board.”

Anne Asensio, 45 years old, has won numerous accolades. In 2001, Fortune magazine featured her in an article entitled “25 Rising Stars”, which highlighted next-generation global leaders, all age 40 or younger. Automotive News named her “Automotive Woman of the Year” in 1997, and recognized her in 2005 and 2000 as one of the top 100 women in the North American automotive industry. Crain’s Detroit Business included her in its list of “Michigan’s Most Influential Women” in 2001.

“Design is a symbol of an intention, and when you analyze any design, you feel the intention behind it. We must remember that this intention has an industrial life as well,” states Anne Asensio. “Dassault Systèmes offers designers seamless design excellence, so that they may focus on their art, reassured that their original concept will remain perfectly intact throughout the production development chain.”

The appointment of Anne Asensio marks DS’s second major move to provide exceptional solutions for the design and styling domain. The first was DS’s acquisition of ICEM, the leading provider of styling, high-quality surface modeling and rendering solutions, with the objective to create the next generation of concept styling and production surfacing solutions. With Anne, DS will launch its Design Experience strategy, providing Design Experience communities and solutions for enterprises, as well as design studios and individual designers. This goes far beyond the automotive industry and will include sectors like architecture, life sciences, consumer goods and others.

Anne Asensio worked as Executive Director of Design, Advanced Design, at the General Motors Design Center, also in charge of vehicle design at GM’s Michigan, Los Angeles and England design studios. She led the development of a number of recent auto show concepts including the Cadillac Sixteen and the Hummer H3T, the latest being the Chevrolet Volt, presented in 2007 in Detroit. Anne joined GM in 2000 as Executive Director of the Brand Character Center, and later was responsible for Interior Design,

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Quality and Brand Character. She began her career at French automaker Renault, where she was responsible for driving the design of small and mid size cars, such as the Megane range.

Anne Asensio will accomplish her first official task as DS's Vice President of Design Experience on November 6 at the European CATIA Forum, where she will speak during the opening session. For more information, please go to: <http://www.3ds.com/news-events/ecforum/overview/>

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## ***EMC Announces Winners of Documentum 6 Web Services Developer Challenge***

6 November 2007

EMC Corporation announced the winners of the company's Documentum® 6 Web Services Developer Challenge, an event that gave software developers up to 30 days to create unique enterprise content management (ECM) applications based on the new EMC® Documentum® 6 platform. The challenge was the first in a series offered by the EMC Developer Network (<http://developer.emc.com/>)

The Documentum 6 platform is the foundation of EMC's Documentum suite, a broad family of ECM products that powers all types of content applications, including: transactional content management, archiving, knowledge management, compliance, and interactive content management applications. The Documentum 6 platform simplifies the way in which content applications are built, configured, and deployed. With its service-oriented architecture, Eclipse-based development, and extensive configuration capabilities, Documentum 6 revolutionizes the development of content applications.

Today at Momentum Monaco 2007, EMC awarded Armedia the Grand Prize of \$50,000 in the challenge. Developers on this team included members Terence McDevitt, Anushka Munasinghe and Patrick Cotrona. The second place winner was 5MD -- the team of Rob Cleghorn, Alexandre Alvares, Andrew McAllister, James Maughan, and Simon Green -- all of BNP Paribas -- who will receive \$20,000, and third place winner Alan Greendyk will be awarded \$10,000. An honorable mention and \$5,000 was awarded to Vikram Pant.

The challenge attracted responses from nearly 200 registrants and, in September, eight finalists were selected by a panel of experts including EMC architects as well as industry experts Larry Cable from BEA, Jeffrey Hammond from Forrester, and Geoff Bock from Bock & Company. Developers from 30 different countries participated in the challenge, and more than half of the entrants were from outside of the United States.

“When they first announced the Documentum 6 platform this summer, EMC promised it would streamline the development of content management applications,” said Challenge Grand Prize winner Terence McDevitt of Armedia. “After using their new services and developing our Windows Mobile application so quickly, it's clear that their claim was right on target.”

“The ease with which we could create rich internet applications using Documentum Web Services was remarkable and a testimony to the design of the Documentum platform and its support for SOA,” said Rob Cleghorn, lead member of the BNP Paribas “5MD gTop” Team.

While nearly 70 percent of the Challenge entrants were existing EMC customer and partner developers, the remainder were new to developing on Documentum. All participants had access to online community forums, sample code, software developer kits (SDKs), documentation and other tools and tips on the EMC Developer Network, available to all EMC developers. Reinforcing the flexibility of the platform, one finalist integrated Documentum® Enterprise Content Services with Windows Mobile™,

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two different finalists built applications using the Google Web Toolkit™, and one finalist built an application in approximately one week.

“The fact that so many developers were able to create such compelling applications for consideration in one short month proves how quick and easy it is to build, configure and deploy today’s content applications leveraging Documentum 6,” said Mark Lewis, President, Content Management and Archiving Division at EMC. “By leveraging our services-based approach to content management – along with new flexible development toolkits – the contest is further evidence of how EMC Documentum continues to lead the market into the next-generation of enterprise content management.”

## CONTEST ENTRANTS

### **1st Place - Incident Management System: Armedia**

This Windows Mobile 6 application simulates a field employee using a handheld device to capture notes in the field, and import them to Documentum. It allows for the mobile device camera to directly import images to Documentum, plus importing of images from an external service, in this instance Flickr.

### **2nd Place - 5MD gTop: Rob Cleghorn, Alexandre Alvares, Andrew McAllister, James Maughan, and Simon Green**

This five man team is so named due to the five days they dedicated to their effort to build a highly functional Web based user interface to Documentum leveraging Google Web Tools. In the words of one judge: "A clear example of the power of the new Rich Internet Application (RIA) and SOA programming model in action."

### **3rd Place - PDF Publishing and Search: Alan Greendyk:**

This single person entry leverages the power of Flex programming and Adobe® LiveCycle® Data Services to illustrate a publishing application pushing content into Documentum, with an extended search capability to fetch content from the Documentum repository.

EMC extends congratulations to all the winners, and thanks all the entrants for their efforts with Documentum 6.

For additional information about the Developer Challenge, results, and winning applications, please visit the EMC Developer Network at <http://developer.emc.com>.

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## ***IPL Initiative Opens Technical Working Groups to Industry Participation***

2 November 2007

Interoperable PCell Libraries (IPL) initiative announces an open invitation to leading semiconductor companies, foundries, integrated device manufacturers (IDMs) and EDA companies to join IPL's three newest technical working groups. The groups seek participants to contribute to standards on Properties and Parameters, PCells and Constraints. The IPL initiative, first formed in April of this year to address PCell interoperability issues, has expanded its charters to address broader interoperability issues with foundry process design kits (PDK) and design flows.

Standardization of PDKs and design flows benefits analog and custom IC designers by removing bottlenecks in multiple-vendor flows. Currently, each foundry is creating specialized PDKs for different EDA vendors and tools. Without standardization, analog design houses are limited by incompatible non-

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extended kits from foundries and limited support for new, advanced tools. The result is increased cost, extended schedules, redundant efforts and impeded innovation.

The companies involved in the technical working groups are Applied Wave Research (AWR), Ciranova, JEDAT, Magma, Silicon Canvas, Silicon Navigator and Synopsys. All companies involved are members of the IPL initiative. Other companies have been invited to participate. The IPL initiative is now actively looking for knowledgeable individuals to participate in the working groups.

"An open and interoperable PDK is important for maintaining design accuracy which is a commitment and constant pursuit by TSMC" said Kuo Wu, deputy director of Design Service Marketing, TSMC. "A potential industry standard like this promotes reuse and reduces PDK development cost. It also promotes innovation in analog and full custom design, improves productivity and efficiency, and makes analog design flow interoperability a reality."

"The level of cooperation, support and progress from the IPL initiative members has been outstanding," says Rich Goldman, vice president of Strategic Market Development at Synopsys. "New IPL initiative members can help accelerate progress and usher in a new era of analog and custom design productivity enabled through interoperability."

The IPL initiative will present an update of the working groups' progress at the 11th OpenAccess Conference on November 5th. These updates were also presented at the 20th Synopsys EDA Interoperability Developers' Forum on October 25th. Any party interested in participating in the IPL working groups should contact Jingwen Yuan, Strategic Alliance Manager, Synopsys, Inc. at [jingwen@synopsys.com](mailto:jingwen@synopsys.com).

For more information about the IPL Initiative, please visit: <http://www.iplnow.com/>

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## ***ITI TranscenData Announces Web Site Re-Launch***

5 November 2007

ITI TranscenData announced the November 1, 2007 re-launch of its product data interoperability web site. This update provides a streamlined, easy to navigate location for the latest information on ITI TranscenData's technologies including:

- PDElib - Software modules for developing translators and data exchange applications
- IGESworks - 2D Legacy Data Migration thru the mapping and structured checking of IGES files
- CADIQ - 3D CAD model comparison and product data quality
- CADfix -Multi-CAD exchange, repair, defeaturing and preparation for downstream CAD and CAx
- DEXcenter - Customer hosted Data Exchange Automation/Supplier CAD Data Collaboration web portal

Also important with ITI TranscenData's 24 year history of customer focused consulting is the updated sections on application of these technologies to product data interoperability solutions including:

- Legacy CAD Data Migration
- 3D CAD Data Translation and Repair

- CAD Data Reuse for CAE
- CAD Model Quality and Comparison
- CAD Data Exchange Automation
- Supplier CAD Data Collaboration
- PLM Integration and Migration
- CAD Translation Services
- Linked Intelligent Master Model

The product and solution areas are rounded out with the latest news, events, updated worldwide partner contact information and revamped support pages.

"ITI TranscenData continues to expand our interoperability technologies and provide value to our customers through the professional delivery of our software products and consulting activities", says Don Hemmelgarn, ITI TranscenData President. "In 2007 alone, we have provided three new releases of our packaged software products and a major release of PDElib V6.0 which is used by most PLM vendors and large OEM customers for internal translator development activity involving the latest versions of most CAD formats. Our PLM partner and direct customers in addition to the many product data exchange organizations we are involved in know ITI TranscenData well and we wanted to reflect that in an updated web presence."

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## ***Mentor Graphics Joins Multicore Association as an Executive Board Member***

6 November 2007

Mentor Graphics Corporation announced that it has joined the Multicore Association consortium as an executive board member. The Multicore Association is a global non-profit organization focused on developing standards that help speed time to market for products that involve multicore implementations.

"As a company that is deeply entrenched in the industry, Mentor Graphics makes a notable addition to the Multicore Association's Executive Board," said Markus Levy, Multicore Association president. "Mentor's experience in this industry will help guide this consortium in delivering the most beneficial standards for multicore applications."

The Multicore Association supports the multicore ecosystem including vendors of processor IP, multicore chips, operating systems, hardware design and software development tools, as well as application and system developers. Currently, the organization is set up with two working groups: Communications API (CAPI) and Debug API, and includes a comprehensive roadmap for support of features such as a resource management API and task management API.

"As the standards sanctioned by Multicore Association go mainstream, our customers will benefit by improved interoperability between operating systems, tools and hardware to fully leverage multicore technologies," said Neil Henderson, general manager, Mentor Graphics' Embedded Systems Division. "By implementing industry supported standards such as the Multicore Communications API (MCAPI), the Mentor Graphics Nucleus® OS platform will facilitate integration with software and hardware

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solutions from the broad ecosystem, accelerating time to market for embedded systems.”

“With a decade of experience in the integration and debug of multicore systems, we look forward to lending our expertise to the Multicore Association,” said Serge Leef, general manager, System-Level Engineering Division, Mentor Graphics. “Over the years our Seamless® customers have driven countless enhancements to our multicore debug technology, which can now be leveraged by the Multicore Association’s standards efforts.”

For more information about the Nucleus OS, please contact Mentor Graphics’ embedded systems division at 800-468-6853 or email [embedded\\_info@mentor.com](mailto:embedded_info@mentor.com). For more information on the Seamless hardware/software integration tool, please call 800-468-6853 or email [mailto:seamless\\_info@mentor.com](mailto:seamless_info@mentor.com). To learn more about Multicore Association, go to <http://www.multicore-association.org/>.

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## ***MESA Launches Strategic Initiatives Working Groups***

November 2007

MESA has, historically, played a key role in both educating and supporting manufacturers on the value of using Plant Information Systems in their quests to improve the way they produce goods. As we look to the future, it's clear that the requirement to continue to improve is becoming even more acute, and that manufacturers need to change the way they leverage the information assets they already own in their production operations. Virtually every 'improvement' initiative or regulatory requirement in manufacturing can be rejuvenated, accelerated and simplified with the correct application of plant information solutions. The ancillary benefit is the additional ROI they drive in the investments you've already made in your ERP, PLM, EAM, and SCP/E systems.

To that end, MESA is focusing significant resources to develop what we've called the MESA Strategic Initiatives (MSIs). We've selected 5 of the most visible and challenging issues that manufacturers face today (see below), and our objective is to focus on how the reliable flow of information from your plant floor will transform existing initiatives and programs. Each of the MSI's will consist of a uniform library of best practices and guidance, aimed at all relevant levels of stakeholders, from implementers to Senior Executives, based on their role in that initiative.

The 5 initial MSI's we selected are the following:

- The Real-time Enterprise
- Lean Manufacturing
- Quality & Regulatory Compliance
- Total Productive Maintenance
- Product Lifecycle Management

MESA's objective, for each of these MSI's, is to deliver a composite library of material to guide any manufacturer through the process of:

- Problem Definition
- Cost Justification and ROI development

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- Project Critical Dependencies
- Implementation Guidance
- Risk Assessment
- Success Criteria and Measurements

To participate on one of these Strategic Initiative Working Groups, [click here](#).

You must be a MESA member to participate in committees or working groups. Not a member? [Sign up for a Basic membership for FREE!](#)

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## ***MSC.Software Corporation Wins IBM Information Management Award for Information Management Solution Excellence***

5 November 2007

[MSC.Software](#) has been named winner of the "Information Management Solution Excellence" award in the annual IBM Information Management Awards competition, recognizing IBM Information Management Business Partners for their demonstrated excellence in delivering exceptional business value for Information Management software.

MSC.Software's winning solution, SimManager Enterprise is an enterprise-level software product that is designed to allow global businesses to speed design and development while providing the functionality that allows organizations to efficiently create, manage and re-use simulation data. SimManager allows companies to execute, control, share and extend engineering analysis processes and all related data for their products both internally and externally into the supply chain.

SimManager Enterprise revolutionizes the way engineering teams can access and work with simulation processes and data, sharing associated information across the extended enterprise for collaboration as well as improved audit trails and comparative analysis. With SimEnterprise, product development stakeholders, regardless of application preference or global location can easily collaborate and manage simulation and simulation-based design information to accelerate product development in a highly cost-efficient manner.

"This is the second time this year that our industry-leading simulation solutions have been recognized by esteemed IBM awards," said Frank Kovacs, vice president, strategic business development, MSC.Software. "Earlier this year, we were honored to receive the Beacon Award for Global Solutions, Best Industry Solution and are so pleased that IBM recognizes how SimManager Enterprise addresses manufacturers increasing time to market and right to market pressures, by providing these businesses with the ability to manage simulation process execution and data for true multidiscipline problems with reliable performance predictions that reduce the need for physical prototypes and provide more accurate and complete results."

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## ***Open Modeling Coalition Approves Statistical Extensions in Si2's ECSM Standard***

5 November 2007

# CIMdata PLM Industry Summary

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The Silicon Integration Initiative's Open Modeling Coalition has voted to approve the Effective Current Source Modeling (ECSM) Statistical Extensions as an Si2 standard. The statistical version of ECSM is available to the broad electronics industry, both users and EDA vendors alike, regardless of Si2 membership.

The ECSM statistical extensions accurately and efficiently model the impact of process and environmental variation – a potentially performance depriving problem – which can negate many of the advantages of moving to process nodes at or below 65nm. Using a statistical approach to timing analysis allows designers to unlock the true potential of smaller process technologies by reducing the pessimism that can rob chip performance in traditional design methodologies. The key to this new statistical standard is that it uses sensitivities to process and environmental device parameters to holistically model variations around nominal operating points. The statistical format accurately accounts for global, within-the-die, and random variations. The net result – fewer analysis corners, increased chip performance, and better silicon.

"Statistical analysis allows designers to understand how variation impacts their timing performance, removing the need to use overly pessimistic guard bands," said Jim McCanny, CEO of Altos Design Automation, Inc. "Using an industry standard statistical library format will enable all the key components of the design flow to adopt and benefit from statistical analysis. Indeed, Altos already supports Si2's S-ECSM format with its latest Variety 1.4 product release."

"Open standards provide an equal opportunity for EDA vendors, IDMs, fabless IC companies, and foundries to integrate into mainstream design flows and deliver innovative technology directly to end-markets," says Sumit DasGupta, sr. vice president of Si2. "We applaud the OMC for approving this important new standard for the benefit of the entire industry"

The S-ECSM specification is available for download at this link:

<http://www.si2.org/openeda.si2.org/projects/omcdistrib>.

## **About the Open Modeling Coalition (OMC)**

The OMC technical objectives are to define a consistent modeling and characterization environment in support of both static and dynamic library representations for improved integration and adoption of advanced library features and capabilities, such as statistical timing. The system will support delay modeling for library cells, macro-blocks and IP blocks, and provide increased accuracy to silicon for 90nm and 65nm technologies, while being extensible to future technology nodes. Member companies are: Advanced Micro Devices, Altos Design Automation, ARM, Cadence Design Systems, Extreme DA, Freescale Semiconductor, IBM, Intel, LSI, Nangate A/S, NXP Semiconductors, Renesas Technology Corp., Silicon Navigator, ST Microelectronics, Sun Microsystems, and Virage Logic. For more information on the OMC, visit: <http://www.si2.org/?page=430>.

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## ***PTC Launches Its "Redefining Innovation" Design Contest***

6 November 2007

[PTC](#) launched its "Redefining Innovation" design contest and has partnered with Manufacturing Business Technology to showcase the contest's winning designs. The contest will highlight ground breaking product designs that push the boundaries of innovation.

Users of PTC® Pro/ENGINEER® Wildfire® 2.0 and above have until January 15, 2008 to submit their

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ideas for the next breakthrough product. In its inaugural year, the contest highlights the entrants' abilities to break new ground and offer something that could make this world a better place to live, work and play. PTC has teamed up with Manufacturing Business Technology to provide the winner with an editorial opportunity to share their design vision and goals with a global audience. To submit an entry or find out more information about "Redefining Innovation", PTC's breakthrough design contest, visit <http://www.ptc.com/go/redefininginnovation>.

Contest entrants can select any category that best fits the design objective, including sustainable technologies, consumer products, socially responsible designs, medical, industrial equipment and electronics and high tech components. An expert panel of industry analysts, media professionals and a member from the [PTC/USER board](#) will judge the entrants based on its uniqueness of concept, approach to unmet customer needs, marketability of product, and ability to manufacture.

Qualified entries should include a text description describing the design goals and also include a 30-word abstract of the idea and a 30-word description of the problem solved. Additionally, the entry should have one or more visual illustrations of the idea.

"Product engineers and designers drive innovation and ultimately create the products that help shape the way we live our lives," said Rob Gremley, divisional vice president, Corporate Marketing, PTC. "The 'Redefining Innovation' contest has been created to recognize the relentless pursuit of excellence demonstrated by Pro/ENGINEER customers."

"Breakthrough innovations are critical to a healthy, growing global economy," said Sidney Hill, executive editor, [Manufacturing Business Technology](#). "We are pleased to be working with PTC on this inaugural contest and look forward to seeing the results of this talented group of designers."

"This contest is a great opportunity for our 18,000 member PTC/USER community," said Dan Glenn, president and PTC/USER board member. "We expect entries from around the globe and look forward to helping these designers share their creative ideas with fellow PTC/USER members."

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## Events News

### ***CGTech Will Exhibit the Latest Version of VERICUT CNC Machine Simulation and Optimization Software on Stand E1354 at AUTOSPORT 2008 at NEC January 10-11th 2008***

9 November 2007

VERICUT is a software used throughout the world to simulate, verify and optimize CNC programs. The [CGTech](#) stand at AUTOSPORT will feature simulations from many of the worlds leading CNC Machine Tool Makers including Mazak, Mori Seiki, Makino, DMG, Hermle, Matsuura and Chiron, focusing on the more complex 5 axis and multi -axis Mill/Turn centres.

VERICUT is firmly established in the Motor sport sector where the combined demands of very short lead times, component and machine tool complexity mean that the industry is at the leading edge of machine tool usage.

VERICUT 6.1 has many new features designed to streamline the NC program verification and simulation process, With this release, NC programmers now have more tools to analyze their CNC machining process. Following feedback from customers, features have been added that give the end user

# CIMdata PLM Industry Summary

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even more control of the virtual machining environment before, during, and after the simulation. New features include:

## **NC Program Review Integration**

NC Program Review is now integrated in VERICUT's main desktop. When in Review mode, the user can navigate backwards from the last NC program line simulated. Error messages and NC program text is highlighted when a collision on the stock or fixture is selected. Material can be replaced while stepping backwards, and then removed again while stepping forward, giving the ability to easily identify and closely evaluate problem areas. Synchronized subsystem simulation (such as for multi-channel controls) can now be displayed in Review mode.

## **CAD/CAM Interfaces**

VERICUT's CAD/CAM Interfaces make verifying NC Programs from within the CAD/CAM system easy and convenient. Users can verify individual operations, a series of operations, or a set of complete NC programs. All stock, fixture, and design geometry is automatically transferred to VERICUT in the correct orientation, along with the NC program, tooling, machine and control data and other simulation parameters. VERICUT simulates the post-processed CNC code output from the CAM system and therefore complements the toolpath simulation provided by many CAM systems. VERICUT can be interfaced to all the leading CAD/CAM systems including Catia, Siemens NX, PTC, Delcam PowerMill, Open Mind HyperMill, EdgeCAM, MasterCAM and GibbsCAM.

## **AUTO-DIFF**

AUTO-DIFF allows the user to compare a CAD Design model with the in-process cut model at any stage of the simulation process highlighting areas of over-cutting and under –cutting.

AUTO-DIFF Constant Gouge Check can now optionally check for a minimum amount of excess material relative to the design model. This is typically used where roughing cuts should leave a specific minimum amount of material for subsequent machining. AUTO-DIFF profile is improved to give more robust results on large and complex profiles where the design and cut stock models are nearly coincident.

## **Manage Machine and Control Configurations**

It may be desirable to “lock-down” VERICUT's machine configurations at companies with several machines and/or several NC programmers using VERICUT. 6.1. Encrypted machine and control files allow the site manager to prevent machine configurations from being inadvertently modified. Menu features are reorganized so “project-specific” settings used during day-to-day NC program simulation tasks are clearly separated from “machine/control” configuration settings. Using encrypted machine/control files automatically disables machine/control configuration menus.

## **Tool Enhancements**

Turning tools with multiple inserts (such as “Flash” tools or other types of tools with multiple inserts) are now supported--including definition of multiple driven points. Each insert's position is checked for valid turning orientation before it will cut. Cutting limit checking (added in 6.0) is enhanced to include checking Minimum/Maximum RPM values. A new model choice automatically creates a milling tool's gage location at the highest point on the tool assembly.

# CIMdata PLM Industry Summary

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## *Cimatron's Sam Golan to Speak at American Machinist Workshop in Cleveland, Ohio*

5 November 2007

Sam Golan, CEO and President of [Cimatron Technologies Inc.](#), will share his industry expertise with tooling executives attending American Machinist's workshop in Cleveland, Ohio. The workshop will take place November 8-9, 2007 at the Marriott Cleveland Downtown at Key Center.

The workshop provides a unique opportunity for tooling professionals in the Cleveland area to acquire best practices for improving shop operations. With over 30 sessions presented by tooling industry experts, the workshop covers a range of topics that include finding new customers, entering new markets, hiring and retaining skilled employees, and maximizing production efficiency.

Sam Golan's presentation will provide the audience with insights on reducing delivery times and costs by optimizing tool shop processes. Attendees will learn how to evaluate these processes, eliminate unnecessary inefficiencies, and streamline the flow of work and material from quoting to delivery. The presentation will take place 9:30a.m.-10:15a.m. on Friday, November 9.

"Shortening delivery times is critical to the competitiveness of every tool shop," said Golan. "I am excited by the opportunity to share the knowledge we have gained while working with tool shops of all sizes to address this challenge."

With over 20 years of experience, Sam Golan is a tooling industry veteran and a multinational, hands-on executive with proven expertise in business development and operations management. Golan founded, co-founded and managed 4 startups in the areas of CAD/CAM, PDM, CRM and IT Services. Golan holds a Business Management degree from Tel Aviv University.

Further information and registration to the American Machinist workshop can be found at <http://machineshopworkshop.com>.

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## *Dassault Systemes to Speak at SNAME 2007 Maritime Technology Conference*

November 2007

- WHO:** Rob Beadling  
CATIA Sales Manager, Marine and Offshore Industries  
Dassault Systemes Americas Corp.
- WHAT:** "3D PLM: The Opportunity for Business Transformation in the Marine and Offshore Industries"
- WHEN:** **Friday, November 16, 2007**  
**12:30pm Eastern**
- WHERE:** Greater Fort Lauderdale/Broward County Convention Center  
1950 Eisenhower Boulevard  
Fort Lauderdale, FL 33316  
(Room B)
- For more information, please visit:  
<http://www.sname.org/AM2007/register.shtml>
- WHY:** Around the globe, there is a general skills and resource deficit relative to the vast number of

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opportunities and challenges that face us in the marine and offshore industries. This deficit exists at all levels from the organizations that perform engineering services to the shipyard and factory production workers. In many countries, the physical capacity to produce large, complex ship and offshore platforms is there to be exploited. As the relative costs of goods and services go ever higher, the cost of software and computing resources to help mitigate them becomes a smaller factor in the equation.

This presentation will discuss the use of Product Lifecycle Management capabilities in the context of Shipbuilding and Offshore applications to bring about significant business transformation that will enable companies to expand their horizons. Specific modes of business transformation will be explored.

## **MORE INFORMATION:**

Derek Lane (DS Americas)  
[derek.lane@3ds.com](mailto:derek.lane@3ds.com)  
+1 (818) 673-2243

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## ***EMC Unveils Content-Enabled Solutions Strategy at Momentum Monaco 2007***

6 November 2007

EMC Corporation welcomed more than 1,500 customers and partners to participate in the most comprehensive gathering of the enterprise content and information management industry – Momentum Monaco 2007.

As a centerpiece of the show, EMC today unveiled its content-enabled solutions strategy, built on nearly two decades of commitment to providing the market's premier enterprise content management (ECM) solutions spanning multiple industries and government sectors. The strategy leverages EMC's worldwide partner community as a foundation, building on vertical industry offerings designed on top of EMC's content management infrastructure.

Momentum 2007 showcases more than 140 breakout sessions, executive presentations, and customer roundtables and provides customers an opportunity to view content-enabled solutions demonstrated by EMC and its partners. At the show, EMC will announce the winners of its Documentum® 6 Web Services Developer's Challenge (see separate release), resulting from the company's open challenge to software developers in July to develop creative ECM applications based on the EMC Documentum 6 platform. The challenge demonstrates the ease with which developers, customers, and partners can build solutions on top of the Documentum 6 platform.

Keynoting Momentum 2007 is EMC's newly appointed President of EMC's Content Management and Archiving (CMA) division Mark Lewis, who will focus on his vision for enterprise content management and archiving. EMC Senior Vice President Balaji Yelamanchili and Vice President of Marketing Whitney Tidmarsh will outline the company's recent introduction of Documentum 6 and provide further insight into the company's new content-enabled solutions strategy.

“In today's competitive marketplace, organizations faced with rapidly-changing business and IT environments are forced to do more with less resources -- all while keeping an eye on stricter regulatory and standards requirements,” said Mark Lewis, President, Content Management and Archiving Division at EMC. “To alleviate some of these issues, companies often turn to point solutions. However, they quickly realize that assembling disparate technologies proves to be a costly, slow process with sub par results.”

He continued, “EMC is looking towards solving that problem with our content-enabled solutions

## CIMdata PLM Industry Summary

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strategy – a strategic approach to Documentum products and services that leverages both EMC and our partners’ vast vertical market and process expertise.”

Aimed at providing customers with faster time-to-value and shorter deployment cycles, EMC’s content-enabled solutions -- based on the EMC Documentum platform -- enable customers to solve business and operational problems specific to their industry or business function. Customers benefit from EMC’s vertical and process knowledge, backed by integrated, end-to-end solutions and a wide ranging partner support network.

Taking the power of the flexible Documentum platform further, EMC Documentum Solution Frameworks™ are a key piece of this new strategy. These reusable frameworks speed the development and deployment of key vertical and horizontal business applications and include the functionality, integration, process templates, object models and Web services components required to address these business applications. Each Solution Framework also includes a reference architecture describing how to build on top of the Documentum ECM platform. Currently, EMC plans to roll-out targeted Solution Frameworks for several vertical and horizontal business functions over the next year to partners, developers and customers.

"We are very proud to be a trusted leading provider of Designed for EMC accredited business applications and purpose built solutions that our clients rely on to run core business functions," said Mara Henderson, president of Imagitek, an Altran Company Headquartered in Europe. "Partnered with EMC, we have delivered the Prodiagio Business Suite of applications to accelerate return on investment and strategic value in the areas of Finance, Legal, Procurement and Case Management.”

"At Corporate Express, many of our project teams are highly dispersed and can include multiple participants across multiple continents," said Bill Morey, Director of Records Management at Corporate Express. "For these project teams to be effective, they require a means to collaborate easily and effectively regardless of location. Working with EMC, we found a solution that enables our teams to collaborate and share content in a Web-based environment - enabling intellectual knowledge and business processes to be captured in a centralized, easily navigated location."

EMC’s solutions strategy is supported by the company’s world-class partner ecosystem, including more than 500 partners and 80 certified partner applications and integrations through the “Designed for EMC Documentum” program. The program helps ISVs, OEM partners, VSPs and systems integrators target, design, develop and bring to market successful offerings based on EMC platforms. Partner solutions with “Designed for EMC” accreditation are certified to have successfully met a comprehensive set of criteria and high standards for solid architecture, design, development, configuration, installation, implementation, integration and quality. Customers value the “Designed for EMC” label on solutions, as it ensures faster deployment, enhanced compatibility, and simpler migration of solutions, thus leading to lower total cost of ownership and quicker time-to-value.

Documentum content-enabled solutions are a key piece of EMC’s broader industry and horizontal solution focus, which also includes image capture and storage solutions built by partners upon EMC® Documentum® ApplicationXtender® for the mid-market, and e-mail management and archiving solutions built on top of EMC® EmailXtender®.

Momentum Monaco 2007 is being held November 5- 8 at Grimaldi Forum in Monte Carlo. For more information, please visit <http://www.momentumeurope.com/>

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## ***GibbsCAM Demonstrated at Haas Demo Days***

5 November 2007

Gibbs and Associates announced that GibbsCAM will be demonstrated as part of Haas Automation's upcoming annual Demo Days to be held November 7th from 10AM – 5PM at various Haas Factory Outlets throughout the United States and Canada.

“We're extremely pleased to participate in the Haas Demo Days,” states Bill Gibbs, Gibbs and Associates company founder and president. “GibbsCAM is used daily by Haas application engineers to create CNC programs demonstrating Haas machine tools' capabilities. In addition, Haas also uses GibbsCAM for the day-to-day production of their machine tools.”

The one-day Demo Days event will feature the latest affordable, super- high- production CNC machines from Haas, with live demonstrations on every machine in the HFO showrooms. Live demonstrations of the latest version of GibbsCAM will show just how easily it can create efficient CNC programs for Haas machine tools. GibbsCAM TMS (Tombstone Management System) option will be featured along with the latest GibbsCAM modules. GibbsCAM TMS, originally developed to support Haas' internal programming needs for tombstone manufacturing, supports the efficient layout and programming of tombstone-fixture parts, a popular mode of machining in high-throughput production. Once a program is developed, GibbsCAM Machine Simulation allows complete simulation and verification of machine tool motions, reducing on-machine prove-out and minimizing programming and set-up errors.

For more information about Haas Automation's Demo Days, visit the Haas Automation web site at <http://www.haascnc.com/>, or call 800-331-6746, or contact your local Haas Factory Outlet. To find out more about GibbsCAM or Gibbs' participation at Haas Automation's Demo Days go to Gibbs' website at <http://www.gibbscam.com/>.

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## ***Gibbs Software Demonstrated at MAG Fadal Open House***

7 November 2007

Gibbs and Associates announced that they will be participating in the 2007 MAG Fadal Open House held November 15th & 16th, at Fadal Machining Centers' offices in Chatsworth, CA. This event will be the domestic introduction of Gibbs SFP on the new MAG Infimatic controls being used with a variety of MAG Fadal machine tools. Gibbs SFP will be bundled with these MAG Fadal machine tools allowing users to become productive sooner realizing a faster return on their investment. During the Open House Gibbs will also be presenting a seminar on new developments in CAD/CAM software.

The Gibbs SFP, MAG Infimatic and MAG Fadal combination had already been introduced at this year's EMO held in September at Hannover, Germany. There the joint roll-out received considerable attention from industry press and show attendees. At EMO, Gibbs SFP was demonstrated both on free-standing Infimatic controls and also on a MAG Fadal VMC 4020 FX and a MAG Fadal VMC 2216 FX machine tools which were controlled by MAG Infimatic controllers. MAG Fadal is the first machine builder to adopt the new MAG Infimatic controllers.

“We're excited to be participating at the 2007 Fadal Open House. Gibbs has had a long standing working relationship with both MAG Fadal,” states Robb Weinstein, Gibbs' Senior VP of Sales and Strategic Planning. “Gibbs is extremely pleased that MAG/Fadal Division has elected to offer the new Infimatic open architecture control with Fadal CNC machines. This provides our mutual customers with

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a complementary solution with the Fadal 32MP and 104D controls, in addition to the new Infimatic CNC controls all of which are bundled with Gibbs SFP.”

In addition to Gibbs SFP, the latest version of GibbsCAM will also be demonstrated at the MAG Fadal Open House. A key advantage of Gibbs SFP is its complete compatibility with the GibbsCAM product line. Programs developed offline using GibbsCAM can be directly transferred to Gibbs SFP on the controller for review and easy modification. Changes made on the controller using Gibbs SFP can then be transferred back to GibbsCAM and referenced as shop-proven processes.

For more information about GibbsCAM and Gibbs SFP, or to locate your local GibbsCAM Reseller, call 1-800-654-9399, email [info@GibbsCAM.com](mailto:info@GibbsCAM.com), or visit the company's web site at <http://www.gibbscam.com/>.

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## ***Sescoi's WorkNC G3 Complements Mori Seiki 'Pure Technology' in Paris***

7 November 2007

Sescoi will be demonstrating its WorkNC G3 Automatic CAM/CAD software in partnership with Mori Seiki at the machine manufacturer's European Open House event being held at its 6,283m2 Technical Centre in Paris between 13th and 16th November.

The Open House, which is a continuation of Mori Seiki's theme of 'Pure Technology,' announced at EMO, Hannover, will give visitors another chance to see the 3 and 5-axis machines displayed at the show, including the NMV5000 DCG and NH5000 DCG.

In particular, SESCOI and Mori Seiki will be concentrating on 3 and 5-axis machining as part of their 'Total Die & Mold Solution' on 13th and 14th November, when machine tools equipped with special die and mold features will be operating, giving live demonstrations of the complete modern moldmaking process. Additionally, SESCOI will be presenting the technology behind its latest WorkNC G3 software at a series of seminars, enabling visitors to learn how, by using advanced moldmaking CAM techniques, they can transform their companies' productivity.

WorkNC G3 coincides with SESCOI's 20th anniversary and is a cumulative concentration of its knowledge and experience in the metal cutting industry. The new software offers users a single ergonomic interface and new fluid 3 and 5-axis cutterpaths to aid productivity and increase ease of use. The advanced programming and technology capabilities within WorkNC G3 mesh well with Mori Seiki's theme of 'Pure Technology' and will bring a valuable contribution to the event.

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## Financial News

### ***Ansoft Announces Second Quarter Financial Results Conference Call and Webcast***

6 November 2007

Ansoft Corporation will release financial results for the second quarter ended Oct. 31, 2007, after the market close on Wednesday, Nov. 14.

The earnings announcement will be followed by a conference call at 5:00 p.m. EDT. A webcast of the

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earnings conference can be accessed on Ansoft's Web site at <http://www.ansoft.com/> or through V-call at <http://www.vcall.com/>. A replay of the call also will be available on the corporate Web site.

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### ***Avatech Solutions to Report First Quarter 2008 Results and Hold Conference Call on November 14, 2007***

5 November 2007

Avatech Solutions, Inc. announced it will release its results for the first quarter of fiscal 2008 before the market opens on Wednesday, November 14, 2007. The Company has scheduled a conference call for 11:00 a.m. Eastern Time on the same day.

The dial-in number for the conference call is (866) 634-2258. A replay of the call will also be available through Wednesday, November 21, 2007, and can be accessed by dialing (706) 645-9291, conference ID #23107099.

An audio replay of the conference call will be available in the Investor Relations section of the Company's Web site, <http://www.avatech.com/>.

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### ***Cimatron's Q3 2007 Results Release Scheduled for November 14, 2007 After Markets Close***

7 November 2007

Cimatron Limited announced that it will be releasing its third quarter 2007 results on Wednesday, November 14th, 2007, after markets close.

The Company will also be hosting a conference call on November 15th, 2007, at 09:00 EST, 16:00 Israel time. On the call, management will review and discuss the results, and will also be available to answer questions by investors.

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

USA: +1-888-407-2553

Israel: 03-9180688

International: +972-3-9180688

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

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### ***Mentor Graphics Reports Third Quarter Results Below Guidance; Reaffirms FY2008 and FY2009 Guidance***

5 November 2007

[Mentor Graphics Corporation](#) announced that third quarter fiscal 2008 results will be below guidance issued on August 23, 2007. Revenue is expected to be approximately \$185 million versus guidance of

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\$200 million and non-GAAP earnings are expected to be slightly below break-even as compared to a previously estimated \$.10 per share. On a GAAP basis, the company also expects a loss.

“While we are disappointed with these results, Mentor’s bookings for the quarter were strong and consistent with the assumptions underlying our previous guidance. Veloce emulation bookings, for example, tripled and we received our first significant order for our newly acquired Pinnacle and Olympus place and route products. Revenue was short of guidance because unique circumstances on several large bookings caused revenue to lag bookings by a quarter,” said Walden C. Rhines, chairman and CEO of Mentor Graphics. “Because we see this revenue deferred by only a quarter, Mentor reaffirms its fiscal 2008 and 2009 outlook.”

For the full fiscal year 2008, the company expects revenue of approximately \$860 million, GAAP earnings per share of about \$.55 and non-GAAP earnings per share of approximately \$1.02.

Preliminary guidance for Fiscal 2009 is for revenue of \$920 million, GAAP earnings per share of about \$.78 and non-GAAP earnings per share of approximately \$1.22.

The company emphasized that the foregoing results are preliminary and are subject to adjustments upon final closing of financial results and completion of the quarterly review by independent accountants. Mentor Graphics will release third quarter fiscal 2008 results after the close of the market on Thursday, November 29, 2007.

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### ***Moldflow Reports First Quarter Fiscal 2008 Results***

5 November 2007

Moldflow Corporation announced results from its continuing operations for the first quarter of its 2008 fiscal year. The Company disposed of its Manufacturing Solutions business division on June 30, 2007; therefore, results from all prior periods have been reclassified to reflect the Company’s continuing operations.

- Revenue of \$13.4 million was up 14% from the corresponding quarter of fiscal 2007.
- Total product revenue of \$5.8 million represented a 13% increase from the same period of the prior year.
- Total services revenue of \$7.6 million represented a 15% increase from the same period of the prior year.
- Non-GAAP operating margin grew to 11%, up from 9% in the same period of the prior year.
- EBITDA was \$1.8 million, up 20% on a year-over-year basis.
- Non-GAAP tax rate of 17% compared to a rate of (9%) in the same period of the prior fiscal year, which included the impact of a one-time benefit resulting from a revised estimate of a tax liability.
- Non-GAAP net income from continuing operations of \$2.0 million represented a 2% increase from the results of the corresponding quarter of fiscal 2007.
- Non-GAAP earnings per diluted share of \$0.16 decreased \$0.01 from the same period of the prior year and included the impact of an increased number of shares used in the calculation of

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EPS resulting from the improved market value of our common stock.

- Net income from continuing operations as reported in accordance with GAAP was \$1.5 million or \$0.12 per diluted share, and included a net charge of \$482,000 for share-based compensation expense, and compared to \$1.6 million or \$0.14 per diluted share, which included a net charge of \$350,000 for share based compensation expense.

Our operating activities from continuing operations generated \$2.2 million of cash during the first quarter, up significantly from \$1.4 million generated the same period of the prior year.

“We are pleased with the results of our first quarter as a company solely focused on our core CAE software business. These results are consistent with our overall expectations for the full fiscal year,” said Roland Thomas, Moldflow Corporation’s president and CEO. “During the quarter, we saw another strong sales performance from our Asia Pacific region. Both our European and Asia Pacific regions also saw a number of repeat investments from both large and small companies. We were also pleased to see the investments in our geographical expansion continue to provide incremental revenue.”

## **Business Outlook**

The Company is providing full year fiscal 2008 guidance from continuing operations below on both a GAAP and non-GAAP basis. Non-GAAP guidance excludes estimated charges for share-based compensation costs. Because there are significant limitations in estimating the impact of share-based compensation costs and related taxes, the tax benefits and estimated charges associated with share-based issuances are unpredictable. For these reasons, the actual impact of share-based compensation on our financial results may differ materially from the estimated amounts included in the guidance below.

The current business outlook is based on information as of November 5, 2007 and is current as of that day only. For our full fiscal 2008 year we expect revenue to grow in the range of 10% to 13% when compared to fiscal 2007. We expect EBITDA from continuing operations to grow in the range of 13% to 20% in fiscal 2008 when compared to fiscal 2007. We expect non-GAAP net income per diluted share from continuing operations of approximately \$0.94 to \$1.00, based upon an estimated 12.1 million diluted shares. Non-GAAP net income per diluted share excludes charges for share-based compensation expenses which are expected to be approximately \$1.8 million, net of related tax effects, and assumes an effective tax rate of approximately 21%. GAAP net income per diluted share from continuing operations for fiscal 2008 is expected to be between \$0.78 and \$0.84 based upon an estimated 12.1 million diluted shares. This GAAP estimate assumes an annual effective tax rate of approximately 25%.

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

The Company has provided non-GAAP net income from continuing operations, non-GAAP net income per diluted share from continuing operations and EBITDA as supplemental measures regarding the Company’s operating performance. Non-GAAP net income from continuing operations and non-GAAP net income per diluted share from continuing operations exclude the impact of share-based compensation expense and, therefore, have not been calculated in accordance with GAAP. EBITDA is defined as GAAP net income from continuing operations plus any interest expense, income taxes, depreciation, amortization and share-based compensation expense less interest earned and, therefore, has not been calculated in accordance with GAAP. Moldflow is presenting these measures because management uses this information in evaluating the results of the Company’s operations and for internal planning and forecasting purposes and believes that this information provides additional insight into our operating results, as well as enables comparison of these results to prior periods. These measures should not be considered an alternative to measurements required by GAAP, such as net income from

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continuing operations and net income per diluted share from continuing operations, and should not be considered a measure of our liquidity. In addition, these non-GAAP financial measures may not be comparable to similar measures reported by other companies. With respect to the non-GAAP financial measures for the first quarter of the 2008 fiscal year and as presented in our business outlook for fiscal 2008, the GAAP financial measures most directly comparable to each non-GAAP financial measure used or discussed in this press release and a reconciliation of the differences between each non-GAAP financial measure and the comparable GAAP financial measure can be found on the Investors page of the Moldflow Web site at <http://www.moldflow.com/stp/english/investors/index.htm>.

## **Information Dissemination**

Moldflow will host a conference call to discuss the first quarter of fiscal 2008 year results as well as future outlook at 11:00 a.m. US Eastern time, Monday, November 5, 2007. The call will be recorded with replay (dial-in # 800-642-1687, PIN# 21004226) which will be available until November 12, 2007. In addition, a live Webcast of the conference call, together with this press release and supplemental financial information, can be accessed through the Company's website at <http://www.moldflow.com/> in the Investors section. The call, press release and supplemental information will be archived and can be accessed through the same link.

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## ***MSC.Software Reports Financial Results for the Third Quarter Ended September 30, 2007***

6 November 2007

MSC.Software Corporation reported results for the third quarter ended September 30, 2007.

### **REVENUE**

Total revenue for the third quarter ended September 30, 2007 was \$57.2 million compared to \$58.4 million for the third quarter last year. Software revenue for the third quarter totaled \$19.9 million compared to \$22.7 million for the third quarter last year. For the third quarter ended September 30, 2007, maintenance revenue totaled \$31.6 million and services revenue totaled \$5.7 million, compared to \$28.9 million of maintenance revenue and \$6.8 million of services revenue for the third quarter last year.

Total revenue for the nine months ended September 30, 2007 was \$175.6 million compared to \$193.7 million for the nine month period last year. Software revenue for the nine months totaled \$65.9 million compared to \$83.3 million for the nine month period last year. For the nine months ended September 30, 2007 maintenance revenue totaled \$92.3 million and services revenue totaled \$17.4 million, compared to \$85.7 million of maintenance revenue and \$24.7 million of services revenue for the nine month period last year. The 2006 nine month period included \$2.4 million of non-recurring PLM revenue.

"The strategic product transition to simulation enterprise solutions is a journey for both MSC.Software and our customers," said Bill Weyand, CEO and Chairman of MSC.Software. "Recent successful enterprise transactions with industry leaders including Airbus and Audi indicate that we are making progress with this product transition."

"During the month of October, we held our Virtual Product Development Conferences throughout all world regions, where we saw a record number of registrations and attendance was notably higher than last year. We believe this is an indication that our customers continue to see great value in all of our simulation product solutions," continued Mr. Weyand.

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"We believe we are seeing certain positive signs in our business activities, both with our new enterprise solutions and our software tools, and had a number of key wins in both categories in the third quarter with customers including Spirit Aerospace, Northrop Grumman and Bombardier in the Americas, Honda R&D and Mahindra Engineering in Asia Pacific, and Airbus, Audi and Eurocopter in Europe."

## **REVENUE BY GEOGRAPHY**

Total revenue in the Americas for the three and nine months ended September 30, 2007 was \$17.6 million and \$53.3 million respectively, compared to \$17.1 million and \$58.0 million for the same periods last year. Total revenue in EMEA for the three and nine months ended September 30, 2007 was \$21.5 million and \$65.9 million, respectively, compared to \$23.1 million and \$74.4 million for the same periods last year. Changes in the Euro dollar increased EMEA revenue during the three and nine months of 2007 by \$1.5 million and \$4.9 million, respectively. In the Asia Pacific region, revenue for the three and nine months of 2007 totaled \$18.1 million and \$56.4 million respectively, compared to \$18.2 million and \$61.3 million for the same periods in 2006. Changes in the Japanese Yen decreased Asia Pacific revenue during the three and nine months of 2007 by \$0.3 million and \$1.7 million, respectively. The decreases in total revenue in all world geographies generally reflect decreases in software revenue from the impacts of the transition from selling engineering tools to selling enterprise solutions to our major customers in certain key industries including automotive, aerospace and manufacturing industries, decreases in services revenue due to a de-emphasis on certain low value consulting engagements, partially offset by growth in maintenance revenue.

## **RESULTS OF OPERATIONS AND EPS**

Total operating expenses for the three and nine months ended September 30, 2007 were \$46.6 million and \$151.9 million, respectively, compared to \$48.9 million and \$142.5 million for the same periods last year. Operating income for the three months ended September 30, 2007 was \$87 thousand and for the nine month period was a loss of (\$9.5) million, compared to an operating loss of (\$2.3) million and operating income of \$5.6 million for the same periods in 2006. The operating loss for the nine months ended September 30, 2007 included restructuring and impairment charges totaling \$8.9 million.

For the three months ended September 30, 2007, loss from continuing operations totaled \$122 thousand compared to loss from continuing operations of (\$1.8) million or (\$0.04) per diluted share for the third quarter last year. For the nine months ended September 30, 2007, loss from continuing operations totaled (\$5.1) million or (\$0.12) per diluted share, compared to income from continuing operations of \$2.1 million or \$0.06 per diluted share for the nine month period last year.

## **GUIDANCE**

At this time the Company will not issue guidance. The Company will evaluate its decision to provide guidance in the future, as it continues to move through this transition period and visibility improves.

## **CONFERENCE CALL**

The Company will host a conference call to discuss the third quarter financial results today at 7:00 am pacific (10:00 am eastern). An archived version of the audio conference call will be available until November 8, 2007 and can be accessed at: (800) 642-1687 using the conference ID code: 22241568. An archive of the conference call and slide presentation will also be available at <http://www.mscsoftware.com/ir/>.

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## Implementation Investments

### ***Apache's Power Sign-off Solution Available for 65nm Reference Flows Supporting Common Platform Technology from Chartered, IBM and Samsung***

6 November 2007

[Apache Design Solutions](#) announced that Common Platform Technology alliance members – Chartered Semiconductor Manufacturing Ltd., IBM, and Samsung Electronics – have qualified the RedHawk full-chip dynamic power integrity solution for use in 65nm reference flows supporting Common Platform technology. The adoption of RedHawk into the reference flow provides Chartered, IBM and Samsung and their customers, access to an industry-leading power sign-off solution.

“The Common Platform alliance members and Apache have worked together to validate RedHawk’s static and dynamic power analysis results for the Common Platform technology’s 65nm process,” said Dr. Ben Suh, vice president, ASIC/Foundry Business, Samsung Electronics. “Power integrity is an important factor for silicon success, so offering a production-proven solution such as RedHawk into the reference flows for Common Platform technology enables our customers to increase their confidence in the success of their design.”

RedHawk delivers cell-based capacity, performance, and ease-of-use with transistor-level accuracy for power analysis and optimization of today’s most complex, high performance SoC designs including those utilizing advanced low-power design techniques such as MTCMOS and multiple-voltage domains. RedHawk addresses dynamic power issues such as simultaneous switching output (SSO) for core, memory, clock, and I/O, as well as the effects of on-chip inductance, package RLC, and decoupling capacitance. It enables designers to identify dynamic “hot spots”, examine its impact on timing, accurately pinpoint the cause and repair the source of the supply noise, thus allowing designers to reduce cost and improve yield.

“We are pleased to be part of the Common Platform reference flow, enabling us to extend the benefits of our industry leading power sign-off solutions to the Platform customers,” said Dian Yang, vice president of product management at Apache. “By enabling designers to accurately analyze and optimize their design for power, RedHawk helps our mutual customers build designs that meet their stringent power requirement while delivering performance.”

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### ***Autodesk's Architecture Solutions Simplify Sustainable Design for China Project***

8 November 2007

[Autodesk, Inc.](#) announced that its architecture and design visualization solutions have recently facilitated the design of several green projects around the world, including the Wuhan Blue Sky Prototype for China. Autodesk software allows designers to better understand and leverage how a building's design can reduce the amount of resources it will consume.

"Technology plays an important role in creating sustainable buildings, and Autodesk is committed to making green building design easier and more accessible for our customers," said Marc Petit, senior vice president, Autodesk Media & Entertainment. "Our solutions help architects and designers plan and visualize buildings that provide increased energy efficiency, use less fresh water and improve air quality. Our solutions also allow for reductions in material waste, efficient specification management and more

accurate evaluation of project lifecycles."

## **Anderson Anderson Architecture**

San Francisco- and Seattle-based architecture firm Anderson Anderson Architecture used Autodesk solutions to design and visualize its Wuhan Blue Sky Prototype project for a 12-story housing and mixed-use development in China. To design the project, the firm relied on AutoCAD software, Revit Architecture and Revit MEP software for building information modeling (BIM), as well as Autodesk 3ds Max and Autodesk Maya modeling, animation and rendering software.

The Wuhan Blue Sky Prototype, which was shortlisted in Living Steel's second International Competition for Sustainable Housing, was designed to minimize land use, optimize energy efficiency and natural ventilation, and decrease the use of fresh water. Anderson Anderson is currently using Autodesk solutions on a new design for off-grid housing in rural China, which grew out of the original Wuhan Blue Sky Prototype.

"Interoperability throughout our Autodesk pipeline keeps the design process fluid, from early concept creation to the visualization of our final design," said Peter Anderson, principal of the firm he co-founded with his brother, Mark Anderson. "Through key features and interoperability with third-party solutions for sustainable design initiatives, Autodesk is making it easy for us to take environmental issues into account -- starting with the earliest strategies of site selection and conceptual design, right through to the final stages of materials specifications and design detailing.

The shape of the Wuhan Blue Sky Prototype building was significantly influenced by sun, shadow and wind direction analysis conducted through Revit, in conjunction with IES software for building performance assessment. The building was designed to provide shade and capture wind in the summer, and to attract the sun and provide shelter from the wind in winter.

Revit was also used to quantify and optimize the structure's ability to capture rain water. This water would be filtered and used as non-potable household water, as well as for irrigation of the building's extensive plantings, which are important to its shading strategies. The parametric features in Revit allowed the architects and designers to balance their desires for all of these elements in real time as they experimented with different configurations of the building's form.

During the design phase, Autodesk Maya was also used to model the structure's more fluid and sculptural forms, such as the vertical circulation of the stairs. The sections modeled in Maya were then completely merged into the Revit model, so that they could be included in parametric modeling. Once the design was finalized, the Revit model was brought into 3ds Max to create various high-quality renderings and animations, which helped communicate the building's design intent and highlighted key green elements of the design. For example, the software was used to create realistic renderings of the building's interior to demonstrate the benefits of the structure's experimental use of air flow and interior spaces.

## **Autodesk for Architects**

For 25 years, Autodesk has provided architects with software solutions for building design, documentation, visualization and operation. Autodesk's software for architects includes AutoCAD Architecture for efficient architectural design and documentation; Revit Architecture for the coordination, quality and process benefits of building information modeling (BIM); as well as 3ds Max and Autodesk VIZ 3D visualization software packages that can be used to extend the capabilities of AutoCAD, AutoCAD Architecture and Revit Architecture software products for conceptual exploration,

design validation and visual communication.

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## ***Automated Vehicle Competition's Winning Team Employed By CarSim***

5 November 2007

CarSim®, Mechanical Simulation Corporation's vehicle dynamics simulation software, was part of the Tartan Racing Team of Carnegie-Mellon University that took home the coveted first prize in the DARPA Urban Challenge, a robotic vehicle race Nov. 3 at the former George Air Force Base in Victorville, Calif.

From an original field of 89 teams, Pittsburgh-based Carnegie Mellon's self-driving Chevy Tahoe, "Boss," competed against 10 other teams in the finals, winning a first prize of \$2 million. The DARPA Urban Challenge is a competitive rally for autonomous cars during which they are required to navigate, park and deal with traffic on a 60-mile urban course. They must operate without human guidance and rely only on sensors and computers to obey traffic laws, merge into moving traffic, avoid obstacles and negotiate intersections. The vehicles had to think like human drivers and continually make split-second decisions to avoid moving vehicles, merge into traffic and safely pass through intersections. The Challenge is sponsored by the U.S. military's Defense Advanced Research Projects Agency (DARPA).

Mechanical Simulation's CarSim was used by the Carnegie Mellon team to predict vehicle behavior over a wide range of road conditions and assist it in operating without a driver. CarSim is Mechanical Simulation's software package for simulating and animating the dynamic behavior of cars, light trucks and utility vehicles, utilizing driver, ground and aerodynamic inputs. CarSim animates simulated tests and generates about 600 output variables that are plotted and analyzed.

"We're honored to be able to participate in the type of leading-edge technology demonstrated in the DARPA Challenge," explained Thomas D. Gillespie, Ph.D., director of product planning and co-founder of Ann Arbor, Mich.-based Mechanical Simulation. "The work being done by Carnegie Mellon – and all these teams – is reflected in the advancements in active safety systems within the automotive industry and in countless other programs in the future."

Mechanical Simulation President Terence Rhoades said, "We have participated in the DARPA Challenges with Carnegie Mellon for the past three years. The team has brought an impressive level of skill and creativity to this competition, and it's gratifying to see them achieve the highest honors. The competitions challenge us as much as they do the teams to produce vehicles that will respond to road hazards."

Mechanical Simulation Corporation is a leader in the development and distribution of advanced software used to simulate vehicle performance under a wide variety of conditions. The company was established in 1996, and from its Ann Arbor, Mich., headquarters provides car and truck simulation packages, training and ongoing support to more than 50 OEMs and Tier 1 suppliers, and over 120 universities and government research groups worldwide. For more information, visit <http://www.carsim.com/>.

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## ***Bombay Industries and Alex Cannon Implement NGC's RedHorse® Apparel ERP Software in 45 Days***

30 October 2007

[NGC](#)® (New Generation Computing®) announced that Bombay Industries and Alex Cannon have implemented NGC's RedHorse® software, a complete ERP solution that is designed specifically for Fashion, Apparel and Footwear. The system was deployed in production at both companies in a record time of 45 days.

RedHorse is an ERP system that includes EDI, order processing and allocation, inventory and production control, import management, shipping and financial accounting. The RedHorse Executive Dashboard makes it easy to access real-time business data and monitor Key Performance Indicators such as sales, profits, inventory, accounts receivable, accounts payable, and other critical business functions.

Alex Cannon, a leading men's casual sportswear brand sold in better department and specialty stores, selected RedHorse in May 2007 after extensive vendor evaluation. "We were impressed by the ease of use of RedHorse and the strength of NGC's technical support team," said Maya Mehta, controller for [Alex Cannon](#). "The availability of NGC's support staff here in New York City was a key factor in our decision."

Bombay Industries, a private label menswear company, appreciated RedHorse's out-of-the-box capabilities. Rudy Lewis, Senior Manager for Bombay Industries, found that few modifications were necessary to effectively manage their business. "For the modifications that did arise, NGC's Professional Services staff was quick to meet the challenge," Lewis said. "This was a breath of fresh air after working with other vendors that could take several days to address critical implementation issues."

"Bombay Industries and Alex Cannon are prime examples that rapid ERP implementation is possible with the strong apparel-specific capabilities of RedHorse," said Alan Brooks, president, NGC. "NGC worked closely with the companies, and we're delighted that they're already starting to see a strong Return on Investment."

RedHorse is part of NGC's SQL Series, a comprehensive suite of solutions designed to transform supply chain efficiencies in the Fashion Apparel, Retail and Footwear industries. The series also includes e-SPS® for Global Sourcing and visibility and e-PLM® for Product Lifecycle Management, and can be deployed as integrated, end-to-end solutions or best of breed.

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## ***Bouldin & Lawson Cultivates a Green Approach with Waste-to-Energy Machine Designed in SolidWorks***

5 November 2007

Horticulture equipment maker [Bouldin & Lawson](#) is at the forefront of the "green" movement using SolidWorks® 3D CAD software to design a series of machines that will convert household waste into biofuels and electricity.

Designing the machines for the company's WastAway sister division, Bouldin and Lawson engineers have developed a system that is already converting waste for all of Warren County, Tennessee (population 38,276, according to 2000 Census figures). The process yields a wood pulp-like substance called Fluff® used for everything from construction material to park benches to potting material for

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plants.

Based in McMinnville, Tenn., Bouldin & Lawson began in 1959 as a way to automate horticulture processes so nurseries can get more plants on the shelf faster. Now the company has more than 80 different machines that automatically trim geraniums, pot and plant zucchini seeds in large plastic flats, water cactus plants, transplant tomatoes, wrap roses, and even clean soybean seeds. The company has standardized on SolidWorks software for all new product design.

“Our designs have evolved from soap stone sketches on a concrete garage floor to 2D AutoCAD® sketches and now 3D models,” said Larry Flatt, executive vice president at Bouldin & Lawson. “That evolution has opened new doors to design creativity, streamlining routine CAD functions so we can focus on discovering new approaches to machine design. This is at the heart of the designs for the latest generation of the WastAway process, which converts waste products to usable energy.”

On its first project using SolidWorks, Bouldin & Lawson cut design time in half, from 12 weeks to six, ensuring the company could introduce a new watering system and a new trimming machine in time for the industry’s largest trade show. This reduction in design time has also given engineers more time to explore more design options for both its horticulture machines and the WastAway process.

While the horticulture machines can be as long as 25 feet, the WastAway process is massive, involving a series of machines requiring a building 265 feet long and 100 feet wide. It has multiple shredders that break down incoming waste and also includes Bouldin & Lawson’s patented steam chamber, which is the only component of its nature to continuously sterilize the processed waste. The steam chamber makes the transformation much faster, more economical, and more environmentally friendly than other waste conversion technologies.

[SolidWorks](#) enables engineers to reduce prototyping costs by enabling them to ensure moving parts such as two 20-inch blades running at 1,000 RPMs don’t collide. They can also make sure motors fit correctly within machines and still have the space to run efficiently and cool properly. “SolidWorks gives our designers a sense of satisfaction when they can build a model and know that it works and is production-ready,” said Flatt. “It gives them the courage to try things they wouldn’t have dared in 2D.”

Engineers depend on SolidWorks’ sheet metal capabilities to design each enclosure, mount, and assembly to exact specifications. This precision is especially important for the WastAway system, which must efficiently process thousands of pounds of waste per day. The next generation of WastAway – slated to be in production in a year – will convert fluff into biofuel and/or electricity.

“The green movement is fast becoming a mandate that requires solutions sooner rather than later, and Bouldin & Lawson is taking the lead in engineering waste-to-fuel technologies that are efficient and have less impact on the environment,” said Rainer Gawlick, SolidWorks vice president of worldwide marketing. “Innovating early in the design process is a huge advantage, and one that Bouldin & Lawson is capitalizing on – perhaps to set a standard for how we’ll manage waste in the future.”

Bouldin & Lawson works with authorized SolidWorks’ reseller [MK Technologies Corporation](#) for ongoing software training, implementation, and support.

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***Canon Selects Siemens PLM Software as its Global PLM Provider***

7 November 2007

## CIMdata PLM Industry Summary

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Siemens PLM Software announced that Canon, Inc., a global leader in the precision electronics industry, selected Siemens PLM Software's technology as its universal next-generation product development platform to be deployed throughout the Canon group, including overseas sites and affiliates. Siemens PLM Software is currently used in Canon Image Communication Products Operations.

Canon, known for its innovative product development process, will utilize NX™ software, Siemens PLM Software's digital product development software, and Teamcenter® software as its keystone PLM system to materialize the benefits of its many years of business-process innovation.

“Like Canon, Siemens PLM Software continually strives for greater innovation and enhanced customer satisfaction,” stated Canon. “So when it came time to select Canon's next-generation keystone PLM platform, we made the judgment following an extensive evaluation process that Siemens PLM Software's market-leading collaboration and innovation solution was the best platform to enforce our ‘product engineering innovation’.”

Canon Image Communication Products Operations, a Siemens PLM Software customer since 1990, began using digital product development technology because the company recognized the tremendous advantage it provided in creating the complex shapes of curved surfaces such as those contained in the camera body.

Siemens PLM Software and partner ISID worked in cooperation to achieve Canon's decision to select Siemens PLM Software.

“NX has already demonstrated its strength as a communication tool by further enhancing the exchange of data between each of the design divisions. We expect Teamcenter's proven collaborative product data management capabilities to further enhance collaboration and innovation throughout the Canon group and its affiliates, allowing Canon to continue its tradition of providing customers innovative imaging technology to help make their creative visions a reality,” added Canon.

“The fact that an industry leader such as Canon has selected Siemens PLM Software as its global PLM provider further validates our leadership in the high-tech industry and our superior product development and support capabilities to deliver a highly scalable solution on a global basis,” said Tony Affuso, chairman and CEO of Siemens PLM Software. “Siemens PLM Software's NX and Teamcenter will enable Canon to enhance innovation and collaboration, speed up the development cycle, improve its competitive strength and solidify its position as a leader in the precision electronics industry by bringing even more best-in-class products to market faster.”

Introduced in April and featuring 400 enhancements, NX 5 powers innovation by integrating all aspects of the design-through-manufacturing process in a high-performance digital product development solution. NX helps companies develop innovative products faster and more cost-efficiently.

Teamcenter powers innovation and productivity by connecting people and processes with a single source of product and process knowledge. Teamcenter's comprehensive portfolio of proven digital lifecycle management solutions is built on an open PLM foundation to power end-to-end PLM.

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### ***Chikuma Seiki Adopts the CoCreate OneSpace Suite***

6 November 2007

CoCreate Software, Inc. announced that Chikuma Seiki Co., Ltd. made the move from 2D to 3D product

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development processes with the CoCreate OneSpace Suite.

Chikuma Seiki develops a broad range of technology products ranging from precision processing machinery to development technology for electronics and embedded software. Chikuma Seiki's strong manufacturing heritage with precision instruments, personal computers, optical thin film vacuum deposition and precise multi-wire saws led the company to develop, design and manufacture factory automation devices for external customers. The company is an engineering intensive business where its 60+ engineers make up nearly 40 percent of the organization's workforce.

Chikuma Seiki sought a 3D product development platform that would allow immediate response to customer-driven requirement changes. This led the company to choose the Dynamic Modeling based approach of CoCreate OneSpace Modeling.

A Dynamic Modeling based approach is history-free. By eliminating history, CoCreate's 3D CAD software breaks the dependency on tracking and ordering the sequence of 2D profiles and 3D modeling operations to drive changes to a product design. As a result, Chikuma Seiki's designers concentrate completely on coming to the best design without concern for the planning or reordering of 3D CAD modeling steps.

The flexibility of CoCreate's approach frees Chikuma Seiki engineers to incorporate customers' requirements and unexpected changes at all stages of development. Additionally, the company has improved communication with all product development stakeholders by making the move from 2D to 3D CAD. Communicating with lifelike 3D models has both increased the quality of communication and decreased the time spent in meetings.

"Because the product is very easy to learn designers can master it in a surprisingly short period of time. Engineers are fabricating models in only three hours after a brief introduction. Others are operating design work just as they did with 2D one week later," said Daishi Miyahara, a member of the design group within the factory automation section of Chikuma Seiki.

Chikuma Seiki included the deployment of CoCreate OneSpace Model Manager and the Advanced Design and BOM Editor add-on modules in their transition to a 3D product development process.

OneSpace Model Manager provides Chikuma Seiki's development team with an integrated data management solution for orchestrating current 3D design projects. Additionally, OneSpace Model Manager enables lightweight graphics within OneSpace Modeling. The high performance handling of large assemblies proved to be a decisive factor for the company's adoption of OneSpace Model Manager.

The company expects to attain additional productivity benefits through the reuse and repurposing of existing 3D product designs on new development projects as its design database grows.

[CoCreate](#) channel partner, OBIC Co., Ltd., supported Chikuma Seiki with both their evaluation and implementation of the CoCreate OneSpace Suite.

Experience CoCreate's 'dynamic difference' today. CoCreate OneSpace Modeling Personal Edition is a freely available download offering users the power of CoCreate's enterprise 3D CAD software for assemblies up to 60 unique parts. Downloads are available from <http://www.cocreate.com/free>

## **About Chikuma Seiki**

Since its establishment the company's main business has been OEM of mechatronics equipment such as watches and digital cameras. It has more than 8,000 square meters of clean room and achievement and

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know-how of mounting assemblies for devices, printers and liquid crystal modules as well as super high-precision processing technologies.

In recent years, with the changing business environment including the rise of Asia, it has been planning the expansion of its engineering solution businesses. It has taken advantage of its production technology to become a production engineering service-provider that is user-friendly, able to make proposals from cost reductions to mass production support, centering on factory automation businesses designing and manufacturing automated machinery, measuring instruments and inspection devices.

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## ***Daimler Beats Economic and Environmental Constraints with PLM Solutions from IBM and Dassault Systèmes***

7 November 2007

Dassault Systèmes ([DS](#)) announced that Daimler AG, a long-term [IBM](#) customer and Dassault Systèmes partner, reached new levels of manufacturing productivity gains and increased energy-efficient output for Daimler's cars, using Dassault Systèmes' CATIA. CATIA provides an integrated machining simulation solution for fuel-efficient large and complex engine and transmission parts.

Automotive OEMs aim to improve the manufacturing time, product quality and safety of powertrain components as they are under tremendous pressure to improve conventional combustion engines' fuel efficiency. This is required by stringent environmental compliance standards. Environment friendly technologies, such as Daimler's fuel cell drive - designed to integrate future requirements linked with economic and CO2 emission efficiencies - are now under development but not yet ready for production. Powertrain manufacturers face a changing environment in which they must comply with new environmental restrictions while staying on time for product delivery to the market.

“The fuel efficient, powertrain design process is quite challenging due to the delicate shape and texture of its part components. Design accuracy is key, explains Eric Buehler, senior manger ITP (Information Technology Production) and CAD-CAM systems manger, Daimler AG. With a traditional powertrain manufacturing approach, the CAM (computer-aided manufacturing) and simulation systems run separately, causing lengthy production cycles and inciting errors. With Dassault Systèmes' technology, we are able to assure high accuracy of engine machined parts, while speeding the manufacturing cycle, ultimately freeing more time for innovative designs.”

DS's CATIA Machining solution has allowed Daimler to put the latest virtual and environmentally-friendly manufacturing concepts to work as follows:

By incorporating all regulatory compliance requirements into processes built into CATIA, manufacturers can be sure they are meeting the latest environmental standards by testing the product design before engaging in a costly and energy- intensive manufacturing process. The programming tools in CATIA allow for easy adoption of new environment requirements that vary by country and region and are changed frequently by car emission and international standards organizations.

CATIA Machining, programming and simulations components, allow Daimler to digitally define the production of a powertrain component, such as an engine's cylinder head, before starting the "plant" manufacturing process, saving manufacturing energy and time and ensuring the accuracy of each step in the manufacturing process.

CATIA Machining Simulation tools give manufacturing experts at Daimler a chance to virtually test the

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“choreography” of parts production to ensure the finished product will meet precise design expectations and not damage plant production, costly machines. Adjustments are made virtually until perfection is reached, and only then do operators on the shopfloor launch the live machine performance.

“CATIA Machining solutions are integral for Daimler’s powertrain program,” says Jacques Leveille-Nizerolle, CEO, CATIA, Dassault Systèmes. “By working in tight collaboration, we have enabled Daimler to more efficiently plan, detail, simulate and optimize its powertrain machining in order to drive engine improvements.”

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### ***Dassault Systèmes’ ENOVIA SmarTeam Announces 5000th Customer; 25 Percent Growth in Customer Base With Big Gains in Europe and Asia***

6 November 2007

Dassault Systèmes (DS) announced that its ENOVIA SmarTeam product data management (PDM) solutions have experienced 25 percent growth in the last 12 months, in terms of customer base, deepening the company’s position as a leader in the mid-market.

From September 2006 to September 2007, ENOVIA SmarTeam’s customer base grew to more than 5,000, an increase of more than 1,000. Much of the growth occurred in the Europe and Asia and in a variety of vertical markets, including automotive and high tech industries. Companies that have implemented ENOVIA SmarTeam include: Chicago-based Norgren, the largest division of the IMI group, the Royal Canadian Mint; U.S.-based entertainment products company Qubica AMF; Taiwan-based industrial materials handling company YOKE Industrial Corporation; U.K. sports car manufacturer Lotus Cars, and Japan-based piping manufacturer Nakayama Corporation.

“Careful consideration, deep understanding of mid-market customers’ PLM needs and a comprehensive channel strategy to provide them with front-line expertise drove ENOVIA SmarTeam’s growth over the last 12 months,” said Alex Zeltcer, general manager, ENOVIA SmarTeam, Dassault Systèmes.

“Embedding ENOVIA SmarTeam solutions into the CATIA PLM Express and DELMIA PLM Express offerings enables customers to choose their starting point in PLM, and then grow modularly according to their needs. It is a clear expression of DS’s belief that PLM produces value for companies of any size in any industry or region.”

ENOVIA SmarTeam users report more effective collaboration between individuals and design teams, as well as time savings as high as 20 percent eliminating wasteful manual tasks such as searching for and managing technical files. ENOVIA SmarTeam helps customers to integrate and manage data and product information while tracking numerous design changes, and at the same time captures best practices, through standardized collaborative design methods which encourage innovation amongst globally-dispersed design teams, engineering departments and throughout the enterprise.

The leading PLM analyst firm CIMdata in September credited ENOVIA SmarTeam Express with increasing Dassault Systèmes presence in the PLM mid market from 2006 to 2007. Integrated with DS’s CATIA PLM Express, ENOVIA SmarTeam Express offers mid-range companies an easy-to-implement collaboration solution that can expand modularly to accommodate their growing PLM needs.

Find out more about ENOVIA SmarTeam at DS’s European CATIA Forum on November 6th-7th in Paris. For more information about the event, please visit: <http://www.3ds.com/news-events/ecforum/overview/>

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## ***Dassault Systèmes CATIA and Abaqus; Prove Instrumental to Challenge X Winner***

7 November 2007

Dassault Systèmes ([DS](#)) congratulates the Mississippi State University (MSU) team on their first place finish in the 2007 Challenge X, an engineering competition to design an environmentally-friendly SUV.

MSU relied heavily on Dassault Systèmes' CATIA and Abaqus software to re-engineer a 2005 Chevrolet Equinox. Sponsored by General Motors and the U.S. Department of Energy, and organized by Argonne National Laboratory, Challenge X asks teams to re-design the SUV to minimize energy consumption, emissions and greenhouse gases while maintaining or exceeding the vehicle's utility and performance.

During the nine-day competition held in Milford, Michigan, MSU edged out 16 other universities with its diesel-electric, parallel hybrid vehicle featuring a 1.9L GM direct injection turbo diesel engine fueled by B20 biodiesel running the front wheels and an electric motor running the rear wheels. The vehicle increased its fuel economy by 48 percent compared to the original design, reduced its well-to-wheels petroleum consumption by 50 percent, and reduced its well-to-wheels greenhouse gases by 60 percent.

"Dassault Systèmes software is what helped separate our team from the other schools," said Neil Littell, PLM Coordinator for the Center for Advanced Vehicular Systems ([CAVS](#)) at MSU. "CATIA was instrumental in redesigning the components to fit our needs while Abaqus simulated the stresses on the components. Additionally, the CATIA virtual machining solution was used to generate code to drive our CNC machines to manufacture the parts."

The Challenge X project has developed over four years. During the first year, computational modeling played a key role in component design, optimization and packaging. For example, the 1.9L Fiat Diesel engine and transmission were positioned in the Equinox's engine bay and engine mounts were both modelled and machined with the help of CATIA. The Abaqus solution from DS's SIMULIA brand was used to perform multiple finite element analysis studies to optimize the performance of the Equinox's rear suspension cradle. The predictions made in year one were then validated in year two, in which the hybrid modifications were implemented. Mississippi State spent year three of the Challenge X competition refining its hybrid system and modifying the vehicle for consumer acceptability. Phase four, which began in June 2007, will include further refinement to the vehicle and more emphasis on consumer acceptability, as well as including outreach and marketing of the vehicle, including trips across North America to showcase the vehicle.

"Programs like this offer students the opportunity to work with real-world processes and tools, better preparing them for success in the automotive industry," said Xavier Fouger, head of Dassault Systèmes Learning. "We are proud our tools could play a part in helping the Mississippi State team and hope they achieve the same success during the next phase."

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## ***Delcam Looks to Build on Autosport Success***

7 November 2007

CADCAM developer Delcam is looking to build on its recent successes in the autosport industry at the

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Autosport Engineering exhibition to be held at the NEC, Birmingham, on 10th and 11th January. The company has recently seen its software adopted by manufacturers of engines and other components but remains best known in the industry as a result of the use of its PowerINSPECT inspection software to check vehicle conformity by the FIA and NASCAR.

Delcam's first major success with engine manufacturers came in 2004 when its PowerMILL CAM system was chosen by ZYTEK Engineering, one of the world's leading specialists in automotive control systems, race engine design and development, powertrain development and hybrid-electric vehicles, for the manufacture of all engines for the A1 Grand Prix series.

Since then, the two companies have worked together to develop novel machining strategies for motorsport engine manufacture, in particular for the finish machining of inlet and exhaust ports. The results have included reductions in machining times of up to 60%, together with better quality and consistency.

A more recent success was at the US engine builder, Wegner Motorsports. Wegner engines have competed in nearly every NASCAR division, including winning multiple championships in the BUSCH Grand National series. Again, the main benefit of the software is in CNC cylinder head porting.

With PowerMILL, an entire set of cylinder head ports can be recreated from a hand-crafted original, machined, tested and installed into an engine, within one to two days. According to Casey Wegner, Carl's son and head of the CNC department, "Previously, it would take us between 20 and 26 hours to machine the ports. Now, we can complete a head in about 45 minutes. Plus, people in the industry are amazed at how smooth the walls of our ports are."

Last year, PowerMILL was used, together with Delcam's PowerSHAPE CAD software, by Coventry-based Visioneering to produce the majority of the components, apart from the powertrain, in the record-breaking JCB Dieselmax car. The unique demands of the project meant that hardly any standard components could be used. Even apparently routine items, such as hinges and catches, had to be machined from solid to ensure that they would give the high level of quality required.

Both the body and the underfloor were produced in carbon-fibre reinforced composites using tooling designed with PowerSHAPE and machined with PowerMILL. Extremely sophisticated flow analysis (CFD) methods were used to optimise the shape of the body so it was essential that the tooling was able to reproduce this form exactly.

However, the most impressive components according to Operations Manager, Adrian Coppin, were the two engine covers. These were machined from solid using programs generated in PowerMILL. "For machining accuracy, these were the best parts we have ever produced," he claimed. "The surface finish that we achieved was remarkable – no hand finishing was required at all."

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## ***Delcam Software Helps Speed Development of Motorcycle Accessories***

5 November 2007

Corbin-Pacific Inc. in Hollister, California, has cut the time needed to develop its new motorcycle accessories substantially with a combination of new reverse engineering and five-axis machining equipment, together with the addition of Delcam's CAD/CAM software. The gains have been seen across the company's range of customised, handmade designs for saddlebags, fairings, back-rests and other accessories.

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The new product development process at Corbin's Hollister plant starts with choosing several motorcycles from each year's crop of about 30 new street bikes, off-road bikes and scooters. Working in a studio jammed with motorcycles, eight designers called "shapers" sculpt each new product in modelling clay. All Corbin products are asymmetrical along a vehicle centreline so only half needs to be modelled. Even so, each design still takes about a week.

With the old process, as soon as the shapers were finished, modelmakers duplicated and mirrored the right-hand halves in a two-part urethane plastic. That completed the model from which the moulds were made. Prior to reverse engineering, completing the models and making moulds took four more weeks.

Now, the design data is captured as a cloud of points within Delcam's PowerINSPECT software using a Perceptron laser scanner fitted to a 7-axis Romer portable co-ordinate measuring machine. Delcam's CopyCAD reverse engineering program is then used to convert the points into surfaces that are passed into the CAD system, PowerSHAPE, for the addition of any extra details and to generate parting lines for the master models. Finally, the completed designs are imported into Delcam's PowerMILL CAM system to generate programs for Corbin's new Diversified Machine Systems five-axis router. With this approach, completing the models and making the moulds takes just one week.

Tom Corbin, chief operating officer bought the technology based on a simple test. "We gave a left-hand saddlebag from one of our shapers to Jerry Saunders from our local Delcam reseller, Vizion, and told him to duplicate it for us," he recalled. "His team did it right in front of us, almost in real time. They did a second demo with another of our products and walked my staff through the scanning, editing and programming process. At that point, we were sold and we have never looked back."

"Scanning is 75% faster than the hand methods we had been using," said Tom Corbin. "Those methods, plus the time needed to find and train designers, had sharply limited our growth. The new tools have really empowered the company to become more imaginative, to create more exquisite, more finely-detailed new products," he added. "The key to any successful company is being involved with the customers and, for us, that means a steady flow of great new designs."

The people responsible for using the reverse engineering and inspection systems are Design Engineering Manager Anthony Printis and Machinist Armando Rodriguez. "The whole system is very intuitive, and it works seamlessly with the rest of the operations," said Mr. Printis. With four hours of training and only limited knowledge of the process, in their first six weeks he and Mr. Rodriguez scanned and duplicated a saddle bag for a Kawasaki, a smuggler box for a Honda and a windshield fairing for a Yamaha.

The other benefit of the new approach has been in the accuracy of the models. With the traditional methods, making the right-hand halves of its designs exactly mirror the handmade left-hand models had always been challenge. The modelmakers used cardboard templates, gauges, measuring tape, callipers, files and so forth, none of which were very accurate. The new approach gives much more reliable duplication. Getting this right is critical as fairings and smuggler-box halves must mate with no visible seam.

Mr. Printis noted that "The inspection jobs are quickly set up, despite the complexity of this work. Whether the data is touch-probed points or clouds of points, generating files for machining or design refinements is quick, easy and very intuitive. Delcam's PowerSHAPE is well suited to creating and refining surfaces, as well as solid models, starting with points in 3D space instead of geometry," he continued. "Over the years I have worked with a lot of CAM packages and, for complex work, PowerMILL is the best."

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The new process has helped create opportunities for more new products in smaller markets. “We can now do much shorter runs and still make money,” Tom Corbin explained. “Not long ago we needed thousands of pieces for a good market. Now even 300 to 500 pieces is very attractive to us.”

It has also made it easier to explore new styling and design ideas, such as a saddlebag moulded with Ferrari-like fins. “With the old hand-duplicating methods, we could not have done something with fins like that,” Tom Corbin commented. “Our new level of design flexibility lets us be much more imaginative.”

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## ***Delta Galil Selects PTC® To Cut Lead Time***

7 November 2007

PTC announced that Delta Galil Industries Ltd., a leading global apparel company headquartered in Israel, has decided to implement FlexPLM, PTC’s solution for retail, footwear, and apparel. As a global manufacturer of intimate apparel, men’s underwear and socks, Delta Galil is focused on constantly improving its development and manufacturing processes. Design and development account for 70% of a product’s lifecycle. Therefore, it is a key success factor to engage with suppliers and customers as early as possible in the process to cut lead time and optimize efficiency in a global product development environment. To achieve this strategic objective, Delta Galil selected FlexPLM to take advantage of a powerful PLM solution supporting automated electronic engagement with the supply chain and customers.

Founded in 1975, Delta Galil has expanded its business to become a truly global manufacturer, encompassing design, development and manufacturing sites in North and Central America, Europe, Asia and Africa. The company manufactures apparel for leading retailers, as well as highly customized fashion for leading global brands such as WalMart, Victoria Secret, M&S, Calvin Klein, Hugo Boss, Nike and others.

“Since Delta became a more global focused company, there was a growing need in managing the complete product lifecycle from concept through to the customer,” said Avi Pinhas, CIO of Delta Galil. “We needed to reduce the development time and automate processes to cut the lead time. In parallel, we wanted to improve and better control the extended supply chain, thus making it more transparent. PTC’s FlexPLM solution proved to be the best choice for our highly global collaboration environment, providing a web-based single source of truth.”

A team of specialists from PTC’s Global Service Organization (GSO) will help Delta to implement the PLM solution and adapt it to its customer-specific needs in a period of only 4 to 5 months. PTC’s apparel know-how and industry experience contributed to the competitive win, giving the Delta Galil management confidence to embrace a broad-based PLM solution.

“We also expect FlexPLM to improve collaboration with our key customers,” said Pinhas. “Once the roll-out is realized, the global PLM environment will contribute to grow our product margin, improve data accuracy, product quality and operational efficiency.” To improve cost control, Delta also intends to integrate FlexPLM with its ERP and costing systems.

“Delta Galil provides high quality innovative fashion and basic apparel to address a wide variety of price points for a broad, global customer base,” said Kathleen Mitford, vice president, vertical market strategy for retail, footwear and apparel, [PTC](#). “The company’s customized vertical market strategy covers every

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stage of the product lifecycle from initial design and development through manufacturing of fabrics, accessories and garments to logistics, distribution and replenishment. That's why they need an extremely powerful PLM solution capable of supporting all phases including collaboration links to customers and suppliers processes."

About Delta Galil Industries Ltd.

Delta Galil Industries Ltd. produces customized, innovative fashion and basic apparel for leading retailers and brands around the world. Since its inception in 1975, Delta has expanded from its original base in Israel to encompass design, development and manufacturing centers on four continents and service more than 50 customers in the US, the UK, continental Europe and Israel. With more than 10,500 employees located worldwide, Delta exemplifies the concept of a global company and takes pride in being a responsible corporate citizen.

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## ***Force10 Networks Adopts SigmaQuest's On-Demand Suite of Performance Intelligence Software***

1 November 2007

[SigmaQuest TM Inc.](#) announced that Force10 Networks® has adopted SigmaQuest's On-Demand suite of SigmaSure products. The software is designed so Original Brand Owners (OBOs), like Force10, can manage and track product quality and performance data throughout design, manufacturing and post-sales RMA/Warranty cycles.

"The SigmaQuest solution allows us to cost effectively track the performance of our switches and routers from design to deployment to better serve our customers and ensure their satisfaction," said Bahman Sohrabi, vice president of global services at Force10. "SigmaQuest's on-demand model eliminates the costly IT infrastructure of managing this process ourselves and allows us to focus on what we do best - develop innovative products that help customers transform their networks into strategic assets."

Force10 purchased SigmaQuest entire suite of On-Demand software products, after successfully using SigmaQuest's Manufacturing and Test Insight module for the past year. This initially purchased module continuously monitors product quality throughout the manufacturing process at globally dispersed facilities and in real-time through the use of dashboards and alerts. The newly adopted offerings include RMA & Warranty Insight, to analyze product return data, track trends and get to the root cause of all issues. Force10 is also deploying the new Repair Insight and Genealogy modules, which will allow Force10 to link back to factory rework/repair its bill-of-materials, as-built data and test results to identify the root cause of any product issues or failures.

"[Force10](#) leads the industry in understanding the widespread benefits of closed-loop quality system," said Nader Fathi, CEO of SigmaQuest Inc. "As Force10 continues to grow its customer base and expand its global supply chain, SigmaQuest will play an integral role in ensuring quality and customer satisfaction."

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## ***GEZE GmbH Switches to PDM Solution From CoCreate***

8 November 2007

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[CoCreate Software Inc.](#) announced that GEZE GmbH, the global leader in the development and production of door, window and safety technology, has purchased over 50 licenses of CoCreate OneSpace Model Manager.

All 45 members of the design department will use the software to access 2D drawings and 3D models designed with CoCreate OneSpace Modeling, while more than 100 other team members in sales, purchasing, work preparation and production will use floating licenses for direct access to the same design data, guaranteeing integrated use of the information company-wide.

GEZE GmbH, founded in 1863, offers a comprehensive catalog of products, including door technology, automatic door systems, smoke and heat venting systems, safety technology, glass systems, and window and ventilation technology. GEZE, an internationally operating company, credits its market leadership to its focus on developing progressive standards in building technology. Development efforts include groundbreaking innovations and precise, custom solutions for customers. The company's global legacy is evident in international construction projects, such as the Children's Science City in Dubai and the Red Bull Hangar in Salzburg, and in the growing number of GEZE subsidiaries worldwide.

GEZE cited several reasons for using OneSpace Model Manager. First, GEZE expects increases in productivity, as partial loading and streamlined models simplify work with large components. Second, OneSpace Model Manager stores and retrieves design information, with easy access options for departments other than the design department. Third, CoCreate enhances useful features, such as the generation of PDF files and exchange formats like DXF and DWG already in the base package, with modules for optimization and automation of the work process. The integration to solutions like SAP is also simplified.

"OneSpace Model Manager has significantly simplified our planned connection to SAP, so that we can guarantee an integrated PLM process in the company," said Ralf Roth, CAD Administrator at GEZE.

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## ***Kontron Malaysia Chooses Valor's Design Verification Tool to Accelerate NPI Process and Improve Manufacturing Yield***

30 October 2007

[Valor](#) Computerized Systems Ltd will be implementing its DFM (Design for Manufacturability) software for PCB layout design verification at the Penang, Malaysia branch of Kontron Manufacturing Services - a global leader in embedded computing technology and mobile rugged solutions.

Dr. Sam Quah Sin Chye, CEO at Kontron Malaysia commented: "The decision to choose Valor was the result of good business sense: Valor's DFM ability to analyze and verify optimal designs before moving forward with new product development will enable us to reduce and eliminate the need for re-spins. This will speed up manufacturing-to-market time, multiply yield, lower costs, and improve the quality of products we offer to our customers."

Valor's DFM software is a virtual manufacturing system, which enables the user to simulate the entire production process of a given PCB, from design to manufacture to assembly, concurrently with the design process. Using a physical model of the PCB assembly, the system helps optimize designs for excellence, resulting in improved product quality and the near elimination of revision spins.

The solution installed at Kontron Malaysia will be complemented by Valor's Part Library (VPL) service – a library of accurate geometric data of more than 35 million components for increased accuracy of

DFM analysis.

Commenting on the deal, KH Ong, President of Valor Far East said: "We are very pleased that Kontron has selected Valor for their DFM solution, a preferred and proven choice by many esteemed enterprise in the electronics design and assembly arena. We are looking forward to working with Kontron in implementing the solution and achieving the targeted improvements as described by Dr Sam".

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## ***Korean Shipbuilder Growing with AVEVA Marine Solutions***

6 November 2007

AVEVA announced that Korea Shipyard Co Ltd. - a newcomer to the shipbuilding scene - has recently invested in AVEVA's set of marine design and engineering solutions.

Korea Shipyard, which is based in the Southwest region of South Korea, focuses on 180,000 DWT Bulk Carriers. To date it has an order book valued at USD 200 million, but this will significantly increase to USD2 billion in 2008.

Chae-Woo Lee, Executive Vice President of Korea Shipyard said:

"With the expected surge in orders, we cannot take risks. We need a complete solution that integrates hull design with outfitting; design automation that maximises efficiency; and a database that allows collaborative, parallel working - all of which are provided by AVEVA Marine Solutions."

Peter Finch, President of AVEVA Asia Pacific said:

"A growing shipbuilder like Korea Shipyard will benefit significantly from AVEVA Marine's unique object-based technologies that allow global project execution, clash-free design and efficient lifecycle management. Not only will this enhance quality and productivity, it will ultimately save them time and costs."

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## ***LECTRA: Arena Chooses Lectra to Achieve Ever-Higher Performance***

5 November 2007

Lectra announced that [Arena](#) has chosen its PLM solution.

Lectra Fashion PLM will allow Arena to capitalize on its know-how and to optimize the product development process, as well as to improve the communication flow with its suppliers of finished products.

One of the leading swimwear brands, Arena is the reference for athletes and water-sports lovers all over the world.

Founded back in 1973, Arena combines a sense of design, product innovation and use of advanced technology to meet the needs of its customers, as well as of many of the greatest swimmers in the world, such as Laure Manaudou, Filippo Magnini, Massimiliano Rosolino, Roland Schoemann, Ryk Neethling, Lazlo Cseh and Otylia Jedrzejczak.

"We chose Lectra and its Lectra Fashion PLM solution because we were looking for a partner who was familiar with our industry and understood our challenges. We are sure to gain from Lectra's experience

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and the quality of its support," stated Cristiano Portas, CEO of the Arena Group.

## Innovating and capitalizing on company know-how

New cuts, new materials, and new components: Arena is constantly looking for new sources of inspiration, while also relying on its past experience and know-how to nourish innovation. All these assets are available in real time using Lectra Fashion PLM to rapidly define new specifications and shorten time-to-market.

## Shortening design and development time

Arena's Design and Development department can be considered as the real "heart" of the Company. Work done by the Design office has repercussions at all company levels, meaning that an efficient information and process flow is a must. A single work environment used by the Waterwear and Activewear product managers and designers, as well as by the sourcing and cost control department, will ensure consistency throughout the collection lines covering several product categories. It will also limit errors by allowing the whole team to work with a single, common and shared set of data.

As a result, [Lectra](#) Fashion PLM will enable the synchronization of products and collection development, via simultaneous, real-time monitoring of the key development stages. Arena will fully benefit from the complementary nature of Lectra's business and organizational applications, in particular for design and pattern-making.

## Better sourcing

With production mainly performed in the Far East, Arena needs to monitor its sourcing activities as closely as possible, as well as to control its purchase costs. Lectra Fashion PLM will enable effective management of iterative sourcing and prototype development processes by facilitating data access and information sharing between Arena and its suppliers. Lectra Fashion PLM will also provide accurate monitoring of fabric consumption and costs. Also quality of products will improve, thanks to the implementation of a quality assurance process throughout the whole manufacturing cycle.

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## ***Maidstone Bakery Improves Quality with Six Sigma and Dyadem Software***

8 November 2007

[Dyadem](#) announced a new deal with Maidstone Bakeries, a joint venture between IAWS Group and Tim Hortons. Maidstone has saved hundreds of thousands of dollars through the use of Six Sigma methodology and Dyadem's FMEA Pro-7 Risk Management Software -- commonly used to improve quality in manufacturing but rarely seen in the consumer products sector.

Maidstone produces more than 60 million donuts per week and wanted to ensure top quality while making sure its production operations were as efficient as possible. Dyadem has helped Maidstone significantly reduce costs while improving quality at its 400,000 square foot facility in Brantford, Ontario.

"Six Sigma is a standard, disciplined methodology and Dyadem's FMEA Pro-7 gave us an easy and painless way to take this approach -- helping us solve problems using data rather than gut feel," said Brett Kyle, continuous improvement training manager at Maidstone and Six Sigma Master Black Belt. "Since the implementation, we've significantly reduced costs and clearly shifted to the next level of quality. FMEA-Pro showed us new ways to solve old problems, by helping us find the roots and develop

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new procedures to address them. The results were very often surprising."

As the standard tool of choice for thousands of companies worldwide, including much of the Fortune 500, FMEA Pro-7 is designed to better analyze product designs and manufacturing processes, shorten study time and prevent failures from happening. Maidstone had relied heavily on informal processes based on Excel spreadsheets and scattered paperwork and with FMEA- Pro project management features was able to document and retain Six Sigma across the Brantford operations using a single program, which is a significant improvement over previous methods.

"Safety is always the top concern in any kind of manufacturing facility -- whether it is cars or other consumer products, managing risk to both employees and consumers, without compromising quality, is a challenge that few companies are meeting effectively," said Kevin North, president and CEO of Dyadem. "Maidstone however has raised the bar for its industry with this ground- breaking implementation of Six Sigma in the consumer products manufacturing industry. For example, by identifying areas of production waste and leftover dough and oil, Maidstone eliminated 80 percent of the waste, improved its environmental efficiencies and saved significant dollars in the process. While many companies avoid changing their quality management methodologies because of the perceived investments in time and money, Maidstone has proven that the transition has already paid for itself tenfold."

With the success of its initial implementation of Dyadem FMEA-Pro, Maidstone's committed next steps are to continue to apply the FMEA-Pro process to future projects, with a main focus on quality and costs savings.

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## ***Modern Amusement Goes Live on NGC's RedHorse® ERP Software in Just 4 Weeks***

23 October 2007

NGC® (New Generation Computing®) announced that Modern Amusement has implemented NGC's RedHorse® software, a complete ERP solution that is designed specifically for Fashion, Apparel, Retail and Footwear. NGC's rapid implementation services enabled Modern Amusement to go live in only four weeks with key business functions including Purchasing and Receiving, Customer Order Processing, Invoicing and Accounts Receivable, Inventory Control, and EDI.

Modern Amusement, a premier designer of men's and women's sportswear, swimwear, and accessories, chose RedHorse based on its out-of-the-box, industry-specific functionality combined with ease of use and comprehensive reporting capabilities. Another critical factor in the selection was the ability of NGC's Service personnel to ensure that the core business modules in RedHorse could be implemented on a very tight schedule. Modern Amusement faced a firm deadline in changing from a third-party system to a new ERP solution, leaving no margin for error.

"NGC worked closely with us to set the proper expectations and define the milestones that would be needed for rapid implementation," said Vick Festekjain, CFO, Modern Amusement. "Their commitment to the project matched ours at every step of the way. We wouldn't have made our deadline without the extraordinary support and efficiency of NGC's management, as well as its Professional Services and Customer Service teams. Implementing ERP in only four weeks is a phenomenal achievement."

"This implementation was a breakthrough for both companies involved," said Alan Brooks, president, [NGC](#). "The dedicated and professional team from Modern Amusement made it possible to get RedHorse

up and running very quickly, and we look forward to a long-lasting relationship.”

RedHorse is a ERP system that includes EDI, order processing and allocation, inventory, production control, import management, shipping and financial accounting. An Executive Dashboard feature makes it easy to access real-time business data and monitor Key Performance Indicators such as sales, profits, inventory, accounts receivable, accounts payable, and other critical business functions. RedHorse is part of NGC’s SQL Series, a comprehensive, end-to-end suite of solutions that also includes e-PLM® for Product Lifecycle Management and e-SPS® for Global Sourcing.

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## ***Parigi Group Selects NGC to Provide End-to-End Visibility, Reduce Cycle Times***

17 October 2007

[NGC](#)® (New Generation Computing®) announced that Parigi Group, a leader in apparel for fashion conscious kids and tweens, is implementing NGC’s e-PLM and e-SPS® software to manage its worldwide product development and supply chain operations.

With offices in New York and Hong Kong and factories throughout the world, Parigi Group sought a solution that would provide end-to-end visibility and enhance global collaboration, allowing the company to improve time to market and manage its increasingly complex, fast-paced business. Parigi Group found the ideal solution with e-PLM and e-SPS, an integrated application for Product Development and Global Sourcing that provides real-time visibility into each step of the product lifecycle.

NGC’s web-based software will enable Parigi Group to manage and control its product specifications, standardize business processes, provide production tracking and help to reduce cycle times. e-PLM and e-SPS are part of NGC’s SQL Series software suite of web-based, integrated solutions, which also includes RedHorse® software for Enterprise Resource Planning (ERP).

“Our brands are recognized for being on the cutting edge of fashion, so it’s crucial for us to stay as close to the trends as possible,” said Isaac Jemal, Parigi Group’s vice president of design and project manager for the implementation. “With NGC’s software, we are confident that we can reduce the time from design to consumer and forecast styles more accurately.”

Parigi is currently in the early phases of implementation, with plans to be fully rolled out in 2008 working alongside NGC’s professional services team in New York. “We were very comfortable choosing NGC because of their extensive background in the apparel industry,” said Bill Finkelstein, chief operating officer for Parigi Group. “It is tremendously valuable having local support for the implementation, and NGC’s team brings a depth of technical knowledge and professionalism to the process.”

“Parigi Group initially approached NGC because they were interested in software for product development and PLM,” said Alan Brooks, president, NGC. “When they saw that NGC could also manage global sourcing on the same platform, they recognized the value of our integrated, end-to-end solution. For brands and retailers with robust demands such as Parigi Group, NGC brings an immense competitive advantage in enabling companies to streamline supply chain operations and drive revenue.”

### About Parigi Group

For nearly a quarter century, Parigi Group’s stable of brands has played a major role and are some of the

main contributors in helping to shape and define the children's fashion apparel market. Since acquiring and pioneering the Phat Farm Boys and Baby Phat Girlz brands in the late 1990's, the company has maintained high standards for quality, trend-focused garments that speak to today's savvy and fashion-conscious tween. The result has been a cascade of product-driven partnerships with Puma Kids, Akademiks for Boys, Apple Bottoms for Girls, Enyce Kids and Buffalo by David Bitton. The Parigi Group brands are currently distributed among better department and specialty stores.

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## ***Regional Wireless Operator Selects Ceon to Provide Product Lifecycle and Catalog Management Product***

7 November 2007

Nordisk Mobiltelefon AB (NMT), a mobile communications operator licensed in Sweden, Norway, Denmark, Poland and Ireland, has selected the Ceon Product Control Center (PCC) product lifecycle and catalog management software solution. Ceon PCC has been chosen to enable a more systematic approach to product management, and support order capture, product configuration, and service fulfillment processes.

Ceon PCC is an advanced, purpose-built, and standards-based system focused on enabling service providers to construct, manage, and deploy a layered product catalog that includes the full technical and commercial definition of products. PCC supports extended attributes, complex business rules authoring and execution, constraint processing, multi-user collaboration, entity revision management, lifecycle state management, a TMF SID-based data model, flexible integration capabilities, and online order configuration and quote calculation support.

“Our continued growth in our core markets is dependent on our ability to introduce and deliver new products quickly and efficiently,” said Thomas Norberg, CIO of Nordisk Mobiltelefon. “We require integrated systems that allows us to define new products, make these available for ordering, and, enable selection, configuration and fulfillment as seamlessly as possible. Ceon's Product Control Center system is a key enabler of this approach.”

“We are pleased that Nordisk Mobiltelefon has selected Ceon's solution,” said Peter Burke, CEO of [Ceon](#). “PCC will play an important role in enabling Nordisk to rapidly bring new products to market, and will help streamline order capture and fulfillment processes for these new offerings.”

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## ***Renesas Selects Synopsys as Its Leading EDA Supplier; Companies Collaborate to Drive Increased Design and Manufacturing Productivity***

5 November 2007

Synopsys, Inc. announced that Renesas Technology Corp. has signed an expanded business agreement to establish Synopsys as its leading EDA supplier across the Renesas design flow. The two companies will cooperate to increase the use of Synopsys' technology across Renesas' engineering teams to capture greater productivity and efficiency for the company. The agreement encompasses solutions throughout the Synopsys product portfolio, including Synopsys' Galaxy™ Design platform featuring IC Compiler place and route technology, Synopsys' Discovery™ Verification platform featuring the VCS® solution and the HSIM® simulator for analog and digital verification, as well as products from Synopsys' design

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for manufacturing (DFM) and TCAD portfolio. By taking advantage of technology and global services across the full Synopsys RTL-to-silicon solution, Renesas can drive improved productivity and grow profitability.

"We chose Synopsys because of their advanced technology breadth, their ability to deliver outstanding support on a global basis, and their spirit of long-term collaboration to help us meet our current and future needs," said Dr. Masao Nakaya, executive general manager at Renesas. "By growing our business with Synopsys we expect to achieve significantly higher levels of design and manufacturing productivity across our business lines."

"Renesas and [Synopsys](#) are both focused on achieving technology advancements that can address the growing thirst for consumer electronics products that deliver more functionality with less power drain," said Aart de Geus, chairman and CEO of Synopsys, Inc. "By establishing a collaborative partnership with Renesas we can achieve these broader goals and drive increased productivity for their engineering teams by deploying proven, predictable flows and methodologies."

Additional terms of the agreement are not being disclosed.

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### ***Renesas Technology Uses Magma Blast Fusion to Increase Speed and Enhance Capabilities of Next-Generation SoC Device for Car Navigation Systems***

31 October 2007

[Magma® Design Automation Inc.](#) announced that Renesas Technology used Blast Fusion®, Blast Noise®, Blast Rail™ and Blast Yield™ physical design software to implement a new system-on-a-chip (SoC) solution that offers significant performance and capability enhancements for car navigation systems and other in-vehicle car information system products. The single-chip SH7775 32-bit processor, running at speeds up to 600MHz, achieves performance as high as 1 GIPS (giga instructions per second) and up to 4.2 GFLOPS (giga floating-point operations per second). The SH7775 also offers over 50 percent better performance than previous generations. Magma's advanced, integrated physical design capabilities were critical to enabling Renesas Technology to deliver these improvements and meet the time-to-market requirements of this complex device.

"The ability to deliver complex, high-performance SoC solutions at a reasonable cost is what keeps Renesas on the leading edge," said Mr. Okada, director of the SoC Business Unit at Renesas Technology. "Magma software plays a key role in enabling us to shorten our development schedule even as we add more sophisticated capabilities to our products."

"The Renesas Technology SH7775 is truly an accomplishment and demonstrates the advantages of Blast Fusion's ability to concurrently address timing, area, signal integrity and power," said Kam Kittrell, general manager of Magma's Design Implementation Business Unit. "We are pleased to contribute to the success of one of the world's leading semiconductor system solutions providers."

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### ***Samsung Electronics Standardizes on PTC® Windchill® Solution to Drive Process Efficiencies Across Enterprise***

6 November 2007

## CIMdata PLM Industry Summary

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PTC announced that Samsung Electronics Co., LTD (SEC), a leading digital products manufacturer of mobile phones, televisions and semiconductors, has selected PTC Windchill as its digital product development data repository to manage an integrated BOM of mechanical, electrical and software data across its globally distributed product development environment. Windchill is the standard enterprise PLM solution at SEC because of its powerful, Web-based support of key product development processes on a single technology architecture and execution environment.

SEC is a global company that provides digital products and services to the world market. SEC first adopted 4,500 seats of Windchill PDMLink® in 2002 for the collaborative product development of molds and printed circuit boards. Windchill PDMLink, a core component of the PTC Product Development System (PDS), provides SEC with an engineering information exchange environment for product specifications, drawings and change management with its extended supply chain. With the PTC PDS, SEC has optimized its product development processes and reinforced the security of its design information, improved product quality and reduced development lead time. Because of these measurable benefits with the PDS, the company has expanded its Windchill implementation to its LCD division.

SEC has also expanded the use of Windchill to their global software development organizations. In their Software Information System (SIS) project, Samsung has connected thousands of software developers across divisions and geographic locations to improve development costs and quality through increased software design reuse. The first key component of this successful project was to integrate multiple IBM® Rational® ClearCase® software configuration management systems to Windchill using PTC's Ready for Rational certified Integration to Rational ClearCase, enabling visibility to software designs across divisions. Second, Windchill provides a standardized approval process to turn software designs into reusable software components. Lastly, the solution provides a searchable catalog of reusable software components, allowing engineers to find reusable designs easily instead of duplicating work done by other divisions. The system can track how many times each component has been used, allowing greater management visibility into the success of their reuse initiatives.

Recently, SEC expanded its business partnership with PTC by implementing an additional 3,600 seats of Windchill for its Bill of Materials (BOM) project, which is scheduled for completion in 2008 and ties directly into its corporate strategy to provide a single, configurable BOM for each product that manages options and variants, and engineering BOM to manufacturing BOM relationships. SEC expects to improve the quality of BOM information, improve time-to-market of products, and improve its operational efficiency. When this project is fully implemented, SEC will be one of the largest Windchill customers in Asia.

“If we hope to continue our efforts to provide high quality products and services to our customers, we must ensure that our product development processes are well managed and the relevant data is easily shared with our geographically dispersed teams. Windchill is a core component because it enables worldwide collaboration,” said Hee-sun Park, CIO of Samsung Electronics. “We have been in a strategic partnership with [PTC](#) for six years, and the tremendously successful results have proven that PTC is a company that provides the best solutions for us, which is why we continue to select and implement their PLM solutions throughout the SEC organization.”

“[Samsung](#) selected Windchill in order to better align its product development initiatives with its strategic corporate goals,” said C. Richard Harrison, president and chief executive officer, PTC. “PTC and Samsung share a similar vision for product development in the electronics and high tech industry and will continue to work together to advance the successes that Samsung continues to achieve in product innovation.”

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## ***Synopsys DesignWare IP for 5.0 Gbps PCI Express Enables First-Pass Silicon Success for PMC-Sierra's High-Performance SoC***

5 November 2007

Synopsys, Inc. announced that PMC-Sierra, a global provider of broadband communications and storage semiconductors, was able to achieve first-pass silicon success for their high-performance design using Synopsys' DesignWare® Bridge IP for PCI Express 2.0 (Gen II) to ARM® AMBA® 3 AXI™ and the DesignWare interconnect fabric for AMBA 3 AXI. The DesignWare Bridge IP for PCI Express 2.0 to AMBA 3 AXI operating at 5.0 Gbps, is the first PCI Express 2.0 IP solution to achieve silicon success. As the leading provider of PCI Express IP, Synopsys provides system-on-chip (SoC) designers with silicon-proven PCI Express IP and AMBA 3 AXI interconnect fabric solutions that accelerate time-to-market and lower integration risk for advanced systems.

Synopsys continues to be at the forefront of delivering IP solutions that enable designers to integrate complex protocols into their SoCs. Developing a bridge between two widely used interconnect specifications such as PCI Express and AMBA 3 AXI can be challenging due to the complexities of mapping the respective bus protocols. The complexity increases when the bridge supports multiple system performance objectives and configuration options. By working closely with early adopters such as PMC-Sierra, Synopsys was able to validate the optimum feature set that meets the needs of designers integrating a PCI Express to AMBA 3 AXI bridge IP solution into their SoCs. This collaboration enabled PMC-Sierra to achieve first-pass silicon success and Synopsys to be the first IP provider to deliver a silicon-proven 5.0 Gbps PCI Express 2.0 to AMBA 3 AXI Bridge IP solution to the market.

"We worked closely with Synopsys early in our development cycle to help ensure the DesignWare Bridge IP for PCI Express to AMBA 3 AXI would work the first time with our required features and performance objectives," said Dale Mosher, director of product development at PMC-Sierra. "Synopsys delivered a high-quality IP solution that was straightforward to integrate into our SoC. They also provided valuable technical support that helped us meet our performance goals."

"PMC-Sierra's first-pass silicon success underscores Synopsys' ability to deliver high quality IP that enables designers to reduce their project risk and achieve their time to market goals," said John Koeter, senior director of marketing for IP and Services at Synopsys. "As the leading provider of PCI Express IP solutions, Synopsys continues to provide products that include advanced features and technology that allow designers to incorporate the latest specifications defined by the PCI-SIG into their products early in the design cycle."

For more information on DesignWare IP, visit <http://www.synopsys.com/designware>.

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## ***Synopsys Selected to Develop 45-Nanometer USB PHY IP for IBM Foundry Process***

6 November 2007

Synopsys, Inc. announced an agreement with IBM to port the Synopsys DesignWare® USB 2.0 nanoPHY IP to the 45-nanometer (nm) Common Platform™ process. This agreement further strengthens the collaboration between the companies to provide USB PHY IP for IBM's leading process technologies, including 130-, 90- and 65-nm, all of which are silicon-proven, USB logo-certified and in

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volume production. Synopsys is the first IP provider to announce the development of a mixed-signal USB 2.0 PHY IP targeting this 45-nm process technology. The Synopsys [DesignWare](#) USB 2.0 nanoPHY IP will be designed with Common Platform technology design rules to provide GDSII compatibility between Common Platform technology manufacturers.

The IP is targeted for a broad range of high-volume, low-power mobile and consumer applications where the key requirements include minimal area and low power consumption. The DesignWare USB 2.0 nanoPHY addresses these key requirements by implementing an architecture that provides a highly effective combination of small area, low power consumption and low leakage. In addition, the DesignWare USB 2.0 nanoPHY IP has unique built-in tuning circuits that enable quick, post-silicon adjustments to account for unexpected chip/board parasitics or process variations without the need to modify the existing design. This feature enables designers to increase yield and minimize the cost of expensive silicon re-spins.

"High speed data connectivity IP is critical for customers using the latest process technologies," said Ken Torino, director of Foundry Products, IBM Global Engineering Solutions. "Based on the past proven successes with Synopsys' DesignWare IP implemented in the Common Platform 90- and 65-nanometer processes, it is natural to extend the relationship to the development of 45-nanometer USB PHY IP."

## Availability

The 45-nm DesignWare USB 2.0 nanoPHY IP is scheduled for availability in the 1H08. The 65-nm version of the USB-IF-certified DesignWare USB 2.0 nanoPHY, as well as the synthesizable USB digital controllers, and verification IP are available today. Synopsys also offers PHYs, digital controllers, and verification IP for the PCI Express, SATA, and XAUI protocols in the Common Platform 65-nm process. More information about the DesignWare USB IP solution is available at [http://www.synopsys.com/designware/usb\\_solutions.html](http://www.synopsys.com/designware/usb_solutions.html).



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## *Tacton Configurator Cuts Quotation Time From Days to Hours for Siemens*

8 November 2007

[Tacton Systems](#) announced that its Tacton Configurator technology has been implemented at Siemens Power Generation – Oil & Gas and Industrial Applications division.

Siemens Power Generation – Oil & Gas and Industrial Applications is a leading global producer of systems and solutions for power generation within key industrial markets, such as oil and gas, chemicals, manufacturing, metals, and pulp & paper. The complex nature of its technology has traditionally meant a highly-specialized quotation process involving large amounts of sales and engineering input and, consequently, lengthy lead times in the tendering process.

With the integration of the Tacton Configurator, Siemens Power Generation will now empower sales personnel within its Turbo Machinery division to deliver rapid and accurate proposals for projects, at the same time as providing project engineers with detailed and correctly-itemized plans. The local sales force will now be able to compile a budget offer in a matter of minutes. The same tool will be used by Proposal Engineers for creating firm bids in hours, rather than days.

In the Siemens Power Generation solution, Tacton has implemented the TCserver, the server-based engine in the Configurator solution; the TCstudio, the graphical maintenance tool used to define how

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products can be combined into solutions; and the TCsite, the sales web interface. Tacton has also developed from scratch a back-end system database containing product data. Proposals can be generated automatically by selecting components from the product structure and then simply adding cost data and text. The solution will also simplify maintenance procedures once the system is in place.

"From a Siemens' customers perspective, they will meet a Siemens supplier who can deliver a much more detailed offer in a much shorter time than competitors in the marketplace," says Jan Nilsson, Project Manager, [Siemens Power Generation](#) – Oil & Gas and Industrial Applications. "Since the configurator always selects a valid solution, it's no longer necessary to have an in-depth knowledge about the products in order to produce a quality-assured bid."

"The logic engine that we provide assists sales people in the market by enabling them to generate a correct bid in a short time, says Christer Wallberg, CEO, Tacton Systems.

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## ***Three NGC Customers Named Winners of Apparel All-Star Awards***

7 November 2007

[NGC](#)® (New Generation Computing®) announced that three of its customers - Maggy London, Michael Stars and Russell Athletic - have been named winners of Apparel Magazine's 2007 All-Star awards. Each year, Apparel Magazine honors ten outstanding apparel businesses based on their innovation, excellence in management, track record of growth, and corporate goodwill that reflects positively on the industry. The All-Star winners were selected by the editorial staff based on nominations from industry executives, and each will be profiled in the December issue of the magazine.

Apparel Magazine will formally recognize the winners during the opening session of Apparel's 2007 Tech Conference today at the Fashion Institute of Technology in New York. The ceremony will also name the 2007 Grand All-Star, chosen from one of the ten winners.

Maggy London was selected for the award based on the overall growth and success of their various apparel brands, including Maggy London, London Times, Donna Morgan, Ali Ro, Suzi Chin for Maggy Boutique, Muse and Shani. Maggy London is in the process of implementing NGC's e-PLM software for product lifecycle management and this will further enhance their ability to grow in the future. "NGC has and will continue to help us become more efficient in our business processes. We are honored to be acknowledged for our hard work and achievement over the past year," said Jerry Sholtz, Corporate Senior Vice President, Finance and Administration at Maggy London. Maggy London has also implemented NGC's e-SPS® software for global sourcing and RedHorse® software for apparel ERP.

Michael Stars was selected for Apparel's All-Star Award for its incredible growth, including expansion into retail, and its innovative and unique approach to style and sizing, among other things.

Russell Athletic was chosen as an All-Star for its emphasis on continually improving apparel performance and comfort, its aggressive branding initiatives targeted toward the youth market, and for the many ways in which it contributes to the community.

"NGC congratulates each of these deserving companies who have been recognized as the 'best of the best' in the apparel industry," said Alan Brooks, president, NGC. "We appreciate their leadership and innovation, and it is an honor to be associated with them. We wish Maggy London, Michael Stars and Russell Athletic continued success in the coming months and years."

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## ***Toshiba Standardizes on CCS Technology at 65nm to Improve Accuracy and Designer Productivity***

6 November 2007

[Synopsys, Inc.](#) announced that Toshiba Corporation has standardized on the open source Liberty™ Composite Current Source (CCS) modeling technology for its CMOS5/TC320C 65-nanometer (nm) production libraries. Using these high accuracy libraries within Synopsys' Galaxy™ Design Platform, Toshiba engineers can improve system-on-chip (SoC) design by minimizing guard-band margins during design implementation and sign-off. The powerful CCS voltage and temperature scaling technology further boosts designer productivity by simplifying low power design flows.

"During our early stages of 65-nanometer flow development, it was clear to us that current source modeling was necessary," said Takashi Yoshimori, technology executive of SoC Design, Semiconductor Company, Toshiba Corporation. "We extensively evaluated CCS along with other current source formats. CCS was able to meet our criteria for stringent accuracy and scaling requirements. CCS tightened the delay calculation accuracy by over two-fold from 5 percent vs. the HSPICE® simulation tool to 2 percent. Furthermore, the voltage and temperature scaling capabilities makes CCS very adaptable, simplifying design flows, especially for multi-voltage designs. This improves our designer productivity and reduces the number of library corners and characterization cost."

CCS modeling technology, part of the open-source Liberty library modeling standard, enables highly accurate and comprehensive modeling of nanometer effects that encompass timing, signal-integrity, and power. CCS modeling technology enables voltage variation modeling, simplifying advanced low-power design flows such as multi-Vt and multi-Vdd as well as dynamic voltage and frequency scaling. CCS is fully supported throughout Synopsys' Galaxy Design Platform. There is significant industry-wide momentum behind CCS modeling technology with libraries available from leading foundries, intellectual property vendors and integrated device manufacturers.

"There is a clear need for a single current source model to meet the semiconductor industry's modeling requirements at 65 nanometers and below," said Antun Domic, senior vice president and general manager of the Implementation Group at Synopsys. "With the flurry of Liberty CCS-enabled IP coming online and support from industry leading companies such as Toshiba, we expect Liberty to remain the standard for library modeling in the industry."

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## ***TTS Group Adopts Ansoft's PCB Design Suite for High-Performance Design***

8 November 2007

Test Tooling Solutions Group ([TTSG](#)), a global manufacturer of ATE test toolings for the semiconductor industry, has adopted Ansoft Corporation's PCB Design Suite, including HFSS™, Nexxim®, Ansoft Designer® and Optimetrics™. TTSG's adoption of the Suite extends the firm's core design competency, strengthens its pool of intellectual property assets and minimizes time-to-market for new products—critical success factors in the fast-moving semiconductor tool market.

TTSG is developing innovative design flows that link process-accurate models of critical, board-level structures with advanced circuit and system simulation. TTSG will use HFSS to model 3D structures such as spring contact probes and then extract frequency-based circuit models for these structures. The

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extracted sub-circuit models will be inserted into full-channel models, which will then be simulated in the Ansoft Designer/Nexxim circuit simulation environment. Optimetrics will be used to test design changes, visualize trade-offs and identify the optimal design solution prior to fabrication. Distributed Solve will reduce simulation times by running parallel simulations across TTSG's compute farm.

With Ansoft's PCB Design Suite, TTSG designers will be able to accurately predict system-level behavior prior to device fabrication. With this insight, TTSG Quality engineers are anticipating fewer first-run failures—a step closer to the much-discussed goal of first-pass system success. "Our customers are requesting fast turnaround of highly engineered PCB solutions, and they expect these solutions to work correctly the first time," said S.L. Wee, president and CEO of the Test Tooling Solutions Group. "Our research and testing show that Ansoft offers the best solution to help our customers meet these objectives."

"Ansoft is pleased to announce this partnership with TTSG," said Alex Teo, country manager for Ansoft Singapore. "TTSG's traditional business model has been to build an intellectual property infrastructure around its design and production processes to deliver a value proposition based on quality and timely delivery. Ansoft's PCB Design Suite will support this tradition."

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### ***Yantai Raffles Goes Digital: Shipyard Unveils World's Largest Crane, Designed with Dassault Systèmes PLM Solutions***

6 November 2007

Dassault Systèmes (DS) and Yantai Raffles Shipyard (YRS), a leading offshore and marine fabrication specialist, announced a significant milestone in YRS' digital transformation. Taisun, the world's largest crane, planned, designed and managed end-to-end using DS's PLM solutions, is currently undergoing stringent testing and commissioning before full deployment, this year end.

"Taisun is earmarked for 10 lifts over the next 20 months. Each lift estimated at 10,000 -16,000 metric tons and we expect it to save over 2 million man hours for each semi-submersible. Partnering with DS allows us to transform our business. Our PLM platform is a vital part of a strategic plan to drive future business and become the 'yard of choice' for partners and clients," explains Mr. Brian Chang, chairman, Yantai Raffles Shipyard. "With Taisun, YRS believes that it has revolutionized the way major offshore projects will be built in the future. The drivers are safety, quality and time, which all equate to cost. With PLM and Taisun, YRS is well on the way to have the best process for designing and manufacturing extreme projects."

Conventional methods of rig construction- often associated with complex integration issues and high cost- will be a thing of the past. With vessels becoming more technologically-advanced and sophisticated, it is mission-critical that companies are supported by a highly-skilled engineering force, cutting-edge facilities and superior technology.

"DS's PLM solutions link the whole value chain – vendors, manufactures, operators, designers, testers - improving collaboration, reducing costs and increasing efficiencies," says Denis Georgeon, general manager PLM channel China & South Asia, Dassault Systèmes. "With full digital mock-ups and standardized data formats, Yantai Raffles can outsource work to the best partners and suppliers and ensure strict quality control, design precision and other mission-critical elements in the end-to-end process of planning, designing, building and project management for each of the semi-submersibles and offshore vessels it builds." Yantai Raffles leverages the full suite of DS's PLM solutions including

CATIA for designing the virtual product, DELMIA for virtual production, and ENOVIA for global collaborative lifecycle management.

The Chairman of Yantai Raffles Shipyard, Mr. Brian Chang, will be speaking about how PLM and Taisun are linked to its future at DS's European CATIA Forum on November 6 in Paris. For more information about the event, please visit: <http://www.3ds.com/news-events/ecforum/overview/>

About Yantai Raffles Shipyard Limited

Admitted to the Oslo OTC System in May 2006, Singapore headquartered Yantai Raffles Shipyard ("YRS") specializes in the construction of various marine and offshore projects that include jack-up drilling rigs, semi-submersible drilling rigs, FPSOs, platform supply vessels, luxury yachts and other units. The 72-hectare shipyard boasts state-of-the-art building facilities, including the 'Taisun' gantry crane, and employs the latest technologies to achieve operational efficiencies and lower costs. With its core mission of attaining excellent quality, competitive pricing and client satisfaction, YRS remains committed to be The Yard Of Choice.

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## Product News

### ***Agni Link ERP-CAD Data Integration System for Microsoft Dynamics Now Supports SolidWorks 2008***

8 November 2007

[Elmo Solutions](#) announced Agni Link, its live, bi-di-rectional CAD-ERP data integration system, is now compatible with SolidWorks 2008.

Agni Link is a companion to SolidWorks, Autodesk Inventor or AutoCAD that provides real-time, bidirectional integration with Microsoft Dynamics. Agni Link is the only application of its kind that offers a reliable way to unify SolidWorks, Autodesk Inventor or AutoCAD and Microsoft Dynamics databases. Every time a CAD document is saved, the user may edit data shared between CAD and Microsoft Dynamics using possible values obtained "live" from Microsoft Dynamics. Upon end-user confirmation, Bill of Materials data is updated in both the CAD document and the Microsoft Dynamics database, thus ensuring perfect synchronization of both data sets and completely eliminating redundant data entry. Agni Link can process and synchronize a wide range of Bill of Materials data from either environment, including:

- CAD Part, Component and Assembly data
- Microsoft Dynamics Production Bill of Materials (BoMs) data
- Microsoft Dynamics Routing instructions

Yielding high Return on Investment, Agni Link typically pays for itself in 60-90 days. Elmo Solutions Science Officer, Ricardo Talbot said: "We are very excited about delivering the most advanced and efficient method of sharing Inventor, SolidWorks or AutoCAD and Microsoft Dynamics product data. We are especially very happy with our ETO-intensive customers' response to Elmo's approach to CAD-ERP data integration, and we are thrilled about this new extension to Agni Link."

Agni Link is readily available from Elmo Solutions. It not only addresses the needs of SolidWorks users,

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but also those of Microsoft Dynamics users, who share product data with them throughout the enterprise. Designed with the end-user in mind, the latest release introduced powerful characteristics such as a new copy and paste feature that allows extremely efficient populating of BoM data directly from the CAD environment, without having to go through the ERP application.

Agni Link's open architecture can support a wide range of ERP applications, including:

- Microsoft Dynamics NAV (Navision)
- Microsoft Dynamics GP (Great Plains)
- Microsoft Dynamics AX (Axapta)

Established in 1979, Elmo Solutions is a world class leader in CAD-ERP data integration, with users in 48 countries.

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## ***Autodesk and U.S. Green Building Council Collaborate to Increase Adoption of Sustainable Design***

7 November 2007

At the 2007 Greenbuild Expo, Autodesk, Inc. and the U.S. Green Building Council (USGBC) presented an update on their ongoing collaboration to expand the use of technology to facilitate adoption of sustainable design and green building. Autodesk also showcased a technology concept for a new sustainability analysis dashboard that could be used in combination with the Revit platform for building information modeling (BIM) to provide architects, engineers and designers with real-time graphical feedback about the impact of their design decisions on the LEED (Leadership in Energy and Environmental Design) rating of a project.

"As we've worked closely together over the past year, it is clear that USGBC and Autodesk share a vision of using technology to drive the mainstream adoption of green building practices," said Rick Fedrizzi, President, CEO & Founding Chair, U.S. Green Building Council. "We're very excited about the sustainability analysis dashboard concept, and look forward to continued cooperation and new technology developments that will accelerate green building practices globally."

Autodesk's proposed sustainability dashboard concept, showcased during the opening plenary session of 2007 Greenbuild Expo, could facilitate sustainable design and LEED certification by, for example, enabling architects and designers to continually calculate such factors as use of energy and municipal water, storm water runoff, recycled material content, carbon footprint, daylighting and potential LEED rating. The dashboard could also be used to track LEED points through the design process to help achieve additional points that would increase the overall LEED score. The dashboard was presented by Autodesk and the USGBC as a technology concept, but it is not a commercially available product.

At the USGBC's Formal Education Committee's Educator Summit, Autodesk also launched the first version of the new Autodesk Sustainable Design Curriculum. Now available for free to post secondary educators worldwide through the Autodesk Student Engineering & Design Community Faculty Lounge, the Autodesk curriculum will enable educators to promote sustainable design practices and integrate BIM techniques and technology into the classroom and studio.

As part of its ongoing initiative to increase awareness of sustainable design as an important solution to global environmental challenges, [Autodesk](#) is sponsoring the documentary series e2 (The Economies of Being Environmentally Conscious), produced by kontentreal and releasing on PBS this fall. The

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USGBC and Autodesk are co-hosting the premiere of season two at Chicago's Field Museum, followed by a panel discussion of industry leaders about the practice of sustainable design featuring Ed Mazria of Architecture 2030, Rick Fedrizzi, Phil Bernstein of Autodesk, Sadhu Johnson, Commissioner of the Environment for the City of Chicago and moderator Susan Szenasy, Chief Editor of Metropolis magazine.

"As the world's leading provider of design software to the building industry, Autodesk is committed to helping the industry design and build greener buildings," said Phil Bernstein, FAIA, LEED AP and Vice President of Autodesk AEC Industry Strategy and Relations. "We look forward to continued collaboration with the USGBC to develop technology and education solutions that achieve this goal."

## About USGBC

The U.S. Green Building Council is the nation's leading non-profit organization composed of corporations, builders, universities, government agencies, and nonprofit organizations working together to promote buildings and communities that are environmentally responsible, profitable and healthy places to live and work. Since its founding in 1993, the Council has grown to more than 12,000 member companies and organizations, a 75-person professional staff, a broad portfolio of LEED rating systems and services, the industry's popular Greenbuild International Conference and Expo, and a network of over 70 local chapters, affiliates, and organizing groups.

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## ***Bentley Releases STAAD.Pro 2007***

5 November 2007

Bentley's Research Engineers Solutions Center has released STAAD.Pro 2007 – Bentley's comprehensive structural analysis program for static, dynamic, or pushover analysis of bridges, containment structures, embedded structures (tunnels and culverts), pipe racks, steel, concrete, aluminum or timber buildings, transmission towers, stadiums, and other structures.

The STAAD.Pro 2007 interoperable design software supports more than 70 international design codes. It addresses recent changes in European, U.S., and Southeast Asian design codes, and is well suited for a variety of vertical applications, including plant, civil, and building.

STAAD.Pro 2007's key features and enhancements include:

**Integration of RAM Connection** – Users of STAAD.Pro 2007 can analyze, design, and produce 2D drawings of simple and complex connections within the STAAD.Pro environment. Shear tabs, moments connections, splices, and bracing connections (gusset plates, chevron, and knee) can be modeled, optimized, and grouped (as well as individually customized), taking into consideration all applicable load cases.

**Integration of AutoPIPE** – Pipe stress engineers can integrate their piping model with the structural model and vice versa. This eliminates the need to manually transfer loads and support positions on isometric drawings and shortens the time to produce final contract drawings and purchase steel. The combined model will be more accurate since it takes into consideration a combined stiffness.

**Importing of Grids** – Multiple construction grids can be used simultaneously to assist in laying out the initial framing, or an architectural grid can be imported from MicroStation or AutoCAD (with all of the layers and blocks intact) and used to trace the structural framing.

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**Updated Design Codes** – A small P- analysis can be performed taking into consideration cambering/imperfections in the model as well as a stress stiffening effect in linear or dynamic analysis. This method of analysis is critical to the proper design of members in compliance with the AISC 360-05 code. The EC3 (eventual replacement for the BS5950 steel code), SP52, and National Building Code of Canada (NBCC 2005) have all been incorporated.

**Advanced Analytical Features** – New analytical features include buckling analysis, generation of traction loading to simulate fluids or other materials sliding in a bin or silo, and taking into consideration the cracked properties in a concrete model such as a dam or a pier.

**Tighter Integration with Bentley Structural** – The bidirectional integration with Bentley Structural has been improved to facilitate the capture of changes (without having to re-import the entire model) and provide support for tapered members used in the pre-engineering metal building industries, better support for concrete members and slabs, and improved automated contract drawings from the STAAD.Pro model.

**Faster Engine (optional)** – A new, advanced engine increases runtime speeds by more than 1000 times, especially in models dealing with dynamics, soil-structure interaction, large models, and nonlinear elements such as tension/compression-only members. As a result, problems that took hours to solve now take minutes. Hundreds of more iterations and “what-if” scenarios can be performed in less than five percent of the original time.

Users of Bentley’s STAAD.Pro product line who are also subscribers under Bentley’s SELECT Program agreement will receive STAAD.Pro 2007 free of charge. All other users may contact their Bentley account manager or regional engineer for upgrade information at +1 800 726 7789, or from outside the U.S. at +1 760 431 3610.

For more information on STAAD.Pro 2007, visit the product page <http://www.bentley.com/STAADPro> or contact Bentley’s Solutions Center at 2744 Loker Avenue West, Carlsbad, California, 92010 USA; phone: +1 800 726 7789, press 2 for sales (or +1 760 431 3610); fax: +1 760 431 5214; email: [structural@bentley.com](mailto:structural@bentley.com).

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## ***CollabNet® Integrates CUBiT, its Distributed and Virtualization Solution for Build and Test, Into Eclipse™ IDE***

7 November 2007

CollabNet announced at EclipseWorld in Washington, DC, the latest release of the CollabNet Desktop for Eclipse, giving Eclipse developers direct access to CollabNet’s comprehensive set of application lifecycle management tools for distributed teams. Enabling Eclipse developers to track and manage, directly from Eclipse, the lifecycle of all project assets, Subversion-related activities, and tasks managed in the CollabNet tracker repositories, the CollabNet Desktop now integrates with CollabNet CUBiT to give developers access and visibility into build and test servers and environments allocated to their project.

“The CollabNet Desktop – Eclipse Edition, eliminates the need for developers to leave their preferred development environment and switch to other tools and systems to collaborate with remote colleagues and contribute to the lifecycle processes mandated by the enterprise,” said Mark Phippard, director of engineering for the CollabNet Desktop and Subversion-related products, CollabNet. “This new release

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adds the ability for Eclipse users to connect to CollabNet CUBiT and access a centralized pool of build and test servers which can be dynamically allocated to their projects. Developers can now easily fix, rebuild and test code components, and track and manage efficiently the application configurations used for each build without leaving Eclipse.”

Distributed development requires solutions and tools that support remote teams without the need for additional technology investment. The CollabNet Desktop – Eclipse Edition is the first ever developer desktop plug-in that enables distributed software development in a native Eclipse environment. Efficiency gains from using a focused tool such as the CollabNet Desktop translate into time and cost savings. Information flows between source code management, issue tracking and other tools automatically, streamlining processes, increasing reliability and allowing developers to work in their native tool environment.

Available as a free download at <http://eclipse.open.collab.net>, version 1.1 of the CollabNet Desktop – Eclipse Edition includes the following updates:

- access to CUBiT functionality directly from Eclipse, including the ability to provision and re-create near real-time development, build and test environments based on system configurations managed and versioned in a central library,
- direct links to valuable resources including technical tips, discussion forums and blogs available on openCollabNet, the extension to CollabNet platform that automatically connects developers with the community of 2.5 million CollabNet and Subversion users,
- ability to access and search directly from Eclipse any of the publicly-accessible community sites that run CollabNet Community Edition such as tigris.org, java.net, and dev2dev.bea.com

“The Eclipse developer community welcomes innovation that is built to suit their needs and requirements,” said Mike Milinkovich, Executive Director of the Eclipse Foundation. “Collabnet has a well deserved reputation of providing advanced development tools, without imposing their own processes. I am sure the Eclipse community will benefit from having closer integration with their tools and the Eclipse platform.”

Later this month, [CollabNet](#) will make available the CollabNet Desktop to users of SourceForge® Enterprise Edition, which CollabNet acquired from VA Software in April 2007 and is in the process of integrating into its main line of products. In addition, when Subversion 1.5 becomes available later this year, the CollabNet Desktop – Eclipse Edition, will also be the first GUI interface for the much expected Subversion Merge Tracking capability.

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## ***EMA Bridges Mechanical and Electrical Design for a Complete Product Development System***

7 November 2007

EMA Design Automation™ (<http://www.ema-eda.com/>), one of the world’s largest Electronic Design Automation Value Added Resellers, announced that it has added the complete PTC® Product Development System to its product offerings. “This allows us to take a holistic view of product design, development, and manufacturing,” said Manny Marcano, president and CEO of EMA. “Our customers can now have a system that manages all of the data that goes into a product’s design and development lifecycle, streamlining processes and improving quality.”

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Most existing EMA customers design complex products consisting of both electrical and mechanical data, as well as other information that is necessary to produce a customer ready product. Additionally, many companies today use globally distributed design teams. A U.S. company might be creating a new product, but the electrical components could be designed in both Asia and the U.S., the mechanical design could be done in Europe, and the product could be manufactured in China. In situations like this, it is imperative that the company employs a product development system and methodology that not only allows, but encourages, global design and global collaboration.

EMA can now help customers address these challenges with a comprehensive product development system that brings together the best tools from PTC, including Pro/ENGINEER® design software and Windchill® content and process management software, along with the full range of Cadence® Design Systems electrical design tools, such as the Allegro® suite of PCB design tools. This coupled with EMA's methodology solution allows companies to implement a product design system, complete with product lifecycle management (PLM) and work in process (WIP) capabilities.

“The PTC Product Development System provides an integral PLM solution that helps companies to optimize their product development processes,” said Matthew McGovern, director, vertical market strategy, PTC. “This is particularly important to small and medium size companies faced with increasing product complexity, competition from larger counterparts, and the need to shorten time to market. EMA's selection of the PTC PDS demonstrates its commitment to helping its customers increase product development efficiency, improve collaboration, and reduce costs.”

“The addition of the PTC product development system allows EMA to become the single vendor for ECAD, MCAD, and PLM software for any Electronic OEM in the globalized marketplace,” said Marcano.

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## ***hyperMILL® V9.7 With New CAD Integration in SolidWorks® and Autodesk® Inventor™ 2008***

8 November 2007

OPEN MIND Technologies AG has completed the development of hyperMILL® V9.7. With this product release OPEN MIND is now offering the users of the CAD software program SolidWorks® a complete, integrated solution for the very first time. hyperMILL®'s integrations with Pro/ENGINEER® Wildfire™, Autodesk® Inventor™, thinkdesign® and hyperCAD® 2007.1 have also been updated in this release.

Alongside added functionality, the newest version of the CAM software program hyperMILL® brings users of hyperMILL®'s CAD integrations up to date. Users of these versions can access all of the software's functional benefits in an integrated manner, including the new millTURN module.

### **An integrated CAD/CAM solution for continuous processing**

The advantage provided by the CAD-integrated CAM solutions is that they enable the realisation of continuous process chains. The CAD and CAM systems both access the same pool of data. A uniform data model is used during the entire process in order to ensure the accuracy and transparency of the manufacturing process and to prevent errors. The standard user interface from the CAD environment simplifies CAM programming and raises the user's acceptance of the CAM solution.

### **Support for SolidWorks® and Autodesk® Inventor™ 2008**

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For the first time, hyperMILL® V9.7 realises continuous process chains for SolidWorks® CAD users. In addition, hyperMILL® V9.7 already supports the recently released Autodesk® Inventor™ 2008. hyperMILL® thus supports all leading CAD applications in its current version as an integrated CAM solution.

## **hyperMILL® - A CAM solution with high-end strategies**

hyperMILL® offers users an array of strategies for 2D, 3D, HSC and 5-axis machining, as well as milling and turning, in one user interface. Programming efforts are reduced with sophisticated feature technology, including feature recognition, automatic mapping of hole and pocket features, feature list, feature browser, macro technology and macro database. The postprocessors, tailored to specific machines, controllers and manufacturing processes, ensure that the CAM programs are processed seamlessly on the machine. With new workspace monitoring the user can check in advance whether the machining job can be performed within the given workspace or whether limit switches will be crossed. The unique 'best fit' function automatically optimises machining with a view to the available work space and also allows optimal space usage when small or limited machines are used. For companies, this means an all-encompassing manufacturing concept and a flawless machining process with the best possible results.

Additional information is available upon request or from our website at <http://www.openmind-tech.com/>.

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## ***Informative Graphics Brava! Enterprise For EMC Documentum TaskSpace Released***

8 November 2007

Informative Graphics Corporation (IGC) the release of its Brava!® Enterprise viewer for EMC® Documentum® TaskSpace.

Documentum TaskSpace is a highly configurable user interface for the next generation EMC Documentum 6 enterprise content management (ECM) platform. Specifically designed for high-volume task processing, TaskSpace allows organizations to accelerate business processes and improve end user productivity. Brava provides fast and accurate viewing and annotation for TIFF, PDF and JPG files within TaskSpace. Brava works within the Documentum platform, maintaining security, aiding user adoption, improving collaboration and the efficiency of content-rich workflow activities.

“EMC’s position as the leader in enterprise content management is strengthened by the support of great partners like IGC,” said Randy Ziegler, Director of Developer Programs at EMC. “IGC builds solutions and applications on the Documentum platform because customers have demonstrated their trust in EMC to manage their most critical and strategic information. EMC is pleased to work together with IGC to provide our joint customers with a complete solution.”

“We have a strong reputation for quality, high-volume viewing and annotation,” said Gary Heath, President and CEO of IGC. “We are very pleased to have Brava integrated to TaskSpace and are committed to providing quality image and document viewing, collaboration and redaction for EMC customers.”

For more information about Brava, visit <http://www.brava4emc.com/>.

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## ***Informative Graphics Makes Available Brava! for EMC Documentum 6 Enterprise Content Management Platform***

8 November 2007

Informative Graphics Corporation (IGC) announced that its Brava!® Enterprise, previously accredited as “Designed for EMC® Documentum®,” has been validated on the next-generation Documentum 6 enterprise content management platform from EMC Corporation. The validation approval demonstrates that Brava has met a comprehensive set of criteria for testing and quality integration with the next-generation Documentum 6 platform.

EMC made available the Documentum 6 enterprise content management platform in August of this year. Through participation in the Designed for EMC partner program, IGC received early access to the Documentum 6 platform software in order to test Brava for integration with the next-generation platform. As a result of rigorous testing and full integration, Brava has been deemed “Documentum 6 Ready.” This designation gives joint customers confidence that Brava meets high standards for architectural compliance with Documentum 6 and will provide a reliable integration with less uncertainty.

Brava extends the Documentum 6 content management platform to provide fast and accurate viewing and annotation for virtually any file. Brava works within the Documentum platform, maintaining security, aiding user adoption and speeding collaboration and other workflows.

“EMC’s position as the leader in enterprise content management is strengthened by the support of great partners such as Informative Graphics,” said EMC Randy Ziegler, Director EMC Developer Programs. The Designed for EMC partner developer program enables our partners to deliver better offerings that fully leverage the new features and functionality of the next-generation EMC Documentum platform. Customers have demonstrated their trust in the EMC Documentum platform to manage their most critical and strategic information. The Designed for EMC programs enable EMC to continually earn that trust while supporting innovative offerings like Brava.”

“We are committed to providing quality image and document viewing, collaboration and redaction for EMC customers,” said Gary Heath, President and CEO of IGC. “Being part of the Designed for EMC program and EMC Developer Network gave us access to early releases, ensuring a simultaneous release to our users with the Documentum 6 platform.”

IGC’s Brava received “EMC Documentum 6 Readiness” designation as a result of their participation in the Designed for EMC programs which help ISVs, VSPs and SIs design, develop and go-to-market with successful offerings based on the EMC Documentum platform. As a member, IGC received specialized design consultation and guidance, along with access to dedicated content management technical resources and marketing support. To learn more about the Designed for EMC program, please visit <http://www.emc.com/applicationportfolio>.

To learn more about Brava for EMC Documentum, please visit <http://www.brava4emc.com/>.

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## ***Invention Machine Launches Goldfire 4.5 with Stronger Risk Analysis Capabilities For Greater Success in Product Innovation***

6 November 2007

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Invention Machine announced the availability of Invention Machine Goldfire™ 4.5 with expanded risk analysis functionality designed to identify and eliminate risks associated with new product development, thereby significantly reducing time to market. The company also announced that it has added dozens of new customers to its growing roster as more and more organizations worldwide adopt Invention Machine solutions to accelerate and sustain their product innovation process.

“Most companies struggle with the challenge of commercializing innovation and honing in on ideas that will transform into successful, revenue generating products,” said Mark E. Atkins, president and CEO of Invention Machine. “Our software has not only revolutionized the idea generation process by empowering engineers to efficiently bring the right ideas to life, but also minimizes design risks and fosters repeatable innovation.”

Industry reports confirm that innovation remains a top strategic priority for companies. However, in an Accenture CEO survey, the majority of participants said that they commercialized less than 20 percent of their promising ideas. According to another Accenture report, companies often rush products to market, only to experience technical and design problems that damage their relationships with consumers.

Invention Machine’s software allows engineers and scientists to generate and validate the right ideas the first time, turning good ideas into revenue stream. The software also identifies and mitigates risks from the product development process, so businesses can confidently focus on driving repeatable and sustainable innovation, regardless of the product concept and market challenges.

With Goldfire 4.5, Invention Machine is extending and strengthening the software’s risk analysis capabilities, making it easier to customize the built-in risk analysis templates to meet company-specific workflows. Goldfire 4.5 incorporates additional pre-defined risk analysis templates based on industry-specific workflows so they integrate better with existing innovation processes in automotive, energy, chemical and defense industries.

In addition, Invention Machine has expanded Goldfire’s multi-lingual capabilities with automated support for researching and generating ideas from French and German content to meet the needs of its global customers. Other functionalities in Goldfire 4.5 include increased ease-of-use, support for Windows Vista™ and Microsoft Office 2007® and numerous administrative enhancements.

## Customer Momentum

During the last two quarters, dozens of global companies across key industries have chosen Invention Machine for their innovation needs, including Bosch und Siemens Hausgerate, Chemtura, Hydro Aluminum, Immucor, Roxane, Velcro and Wah Chang. In addition, several existing customers have expanded their use of Invention Machine Goldfire across their respective organizations to accelerate product innovation, process improvement and market expansion. Among these companies are Leggett & Platt, Nestlé, Northrop Grumman, SC Johnson, Schneider Electric and Thales.

## Business Momentum

[Invention Machine](#) has reported a compound annual growth of 50 percent over the past three years. The company has offices in six countries and a network of more than 20 resellers and partners worldwide that support customers in 25 countries. Invention Machine recently moved its corporate headquarters to 800 Boylston Street, 39th Floor of the Prudential Tower, Boston, MA, to accommodate its growing workforce.

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## ***LATTICE TECHNOLOGY Releases XVL Plug-in for Adobe® Acrobat® 3D***

6 November 2007

[LATTICE TECHNOLOGY, Inc.](#), developers of the XVL ultra-compressed 3D data format, announced the release of a groundbreaking new product, XVL Plug-In for Adobe® Acrobat® 3D. The software operates with Acrobat 3D Version 8 to enable easy bi-directional conversion between Adobe PDF and Lattice's XVL. The plug-in is available for purchase in November.

The lightweight XVL format allows 3D data to be used throughout the product lifecycle. Acrobat 3D Version 8 enables virtually any 3D CAD file to be delivered as a convenient PDF document. The new plug-in by Lattice provides users the convenience of PDF distribution with the power to edit the data in Lattice's XVL-based applications, wherein users can produce 3D process animations, training manuals, customer documentation, engineering process documents and more.

"The possibilities that this plug-in creates for manufacturers to really be able to communicate, use, and collaborate with 3D data are endless. We are looking forward to seeing what our customers achieve with this tool," said Bill Barnes, GM, Lattice Technology Inc. "The plug-in is bi-directional, which means data can both export from and import into Acrobat 3D. PDF is one of the communication tools of choice for our users. XVL applications can manipulate and enhance 3D data into animations, combine it with other part data, and create stunning 'How-to' documents, which can then be optionally imported back into 3D PDF for easy distribution. This makes for a highly enhanced workflow, greater potential use of 3D data downstream, and improved productivity."

The new bi-directional translation supports shape, product structure information, color and attributes like part name and designer material. In order to use the new plug-in, Acrobat 3D Version 8 is required.

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## ***Magma's Quartz DRC Runsets Qualified for TSMC's 45-nm Process Technology***

6 November 2007

[Magma® Design Automation Inc.](#) announced the availability of Quartz™ DRC-qualified runsets for TSMC's 45-nanometer (nm) process technology. Combined with Magma software, the runsets provide designers with a complete, integrated implementation and verification solution that accelerates time to market and improves manufacturability of designs targeted for TSMC's advanced process technology.

At 45 nm, variability in manufacturing is sensitive to chip yield and performance; as a result, design rule checking (DRC) remains a very critical step to ensure the quality of design tapeout. Quartz DRC, introduced in 2005 as the industry's first linearly scalable physical verification tool, enables faster time to market for manufacturing sign-off. This product is now deployed in production worldwide at top semiconductor manufacturers, including recognized leaders in microprocessors, graphics, networking and wireless chip design, and has been certified by major foundries for sign-off at 90-, 65-, 45-nm and finer process nodes. Magma's "in-the-loop" DRC physical sign-off brings DRC-correct layout into the place-and-route flow, eliminating costly final errors by performing GDSII-level error correction without exporting the design database.

"Magma's Quartz DRC tool is essential to the confidence of designers who have been using Magma for physical verification sign-off and the Talus® platform for physical synthesis and sign-off," said Kuo Wu, deputy director of Design Services Marketing at TSMC. "Magma's DRC tool is interoperable with the design tools in TSMC's Reference Flow 8.0, enabling it to fit into our customers' flows."

## CIMdata PLM Industry Summary

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“Magma’s physical verification solution has been shown to reduce tapeout cycles by weeks and enable increased parametric and catastrophic yield,” said John Lee, general manager of Magma’s Physical Verification Business Unit. “By partnering to provide mutual customers with advanced process technology, physical verification solutions and Quartz DRC runsets, Magma and TSMC demonstrate a shared commitment to enabling designers to meet time-to-market and yield challenges at 45 nm.”

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### ***McLaren Software’s Enterprise Engineer Receives EMC Documentum 6 Readiness Validation***

7 November 2007

[McLaren Software](#) announced that their flagship application suite Enterprise Engineer has received EMC Documentum 6 Readiness validation. The validation approval demonstrates that offering name has met a comprehensive set of criteria for testing and quality integration with the next-generation Documentum 6 platform.

Enterprise Engineer has been certified on the EMC Documentum platform through the Designed for EMC partner program beginning with version 4 in June of 2005. “The Designed for EMC partner program is important to McLaren Software, as it provides the vehicle for us to align our roadmap with EMC’s Documentum platform,” said Tim Taylor, Chief Business Development Officer at McLaren. “In addition the D6 validation gives our joint customers confidence that the Enterprise Engineer application suite will allow them to get the most value out of their EMC Documentum investment.”

With the unveiling of EMC’s Content-Enabled Solutions strategy, McLaren Software is well positioned as a pioneer in delivering content-centric applications. The Enterprise Engineer application suite provides customers with enterprise class business functionality that utilizes the underlying content management platform as its primary data store for unstructured content.

“EMC’s Content-Enabled Solutions strategy highlights the maturation of the enterprise content management market, in which customers are no longer satisfied with developing their business application on top of a platform – they want to buy applications to meet their business needs,” said Mike Jones, Vice President of Marketing for McLaren. “Further evidence is provided by key industry analyst groups such as Forrester Research with their Content-Centric Applications analysis and Gartner with their Content-Enabled Vertical Applications (CEVA) research.”

Enterprise Engineer is a suite of configurable applications that manage engineering documentation and the work processes that produce and use this content. Enterprise Engineer provides a single point of controlled access for engineering documentation, such as CAD drawings, standard operating procedures, correspondence and specifications throughout the lifecycle of an asset or project. With built-in business rules, processes and security, Enterprise Engineer automates the use of engineering content across the company and with third party contractors improving intellectual worker performance and manageability.

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### ***Mentor Graphics Announces HDL Designer Series with SystemVerilog Support for Design-to-Verification Productivity***

7 November 2007

Mentor Graphics Corporation announced that, in support of the growing adoption of the SystemVerilog

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standard, its HDL Designer™ Series product has been extended to provide a platform for implementing SystemVerilog. The Mentor Graphics HDL Designer Series product is used to accelerate register transfer level (RTL) design reuse and optimize design creation, synthesis, and verification processes for complex application-specific integrated circuit (ASIC) and field-programmable gate array (FPGA) designs. Today, up to 80% of new ASIC and FPGA designs reuse RTL code from previous designs. The HDL Designer Series product formulates an optimum design-to-verification environment for creating and managing complex designs using VHDL, C/C++, PSL, Verilog, mixed-languages and now, SystemVerilog.

Unlike traditional HDLs (hardware description language), SystemVerilog introduces an object-oriented design style that offers a plethora of new language features. Solutions like the HDL Designer Series product with SystemVerilog, help lower the barrier to entry for hardware design and verification engineers by providing a unified environment for all HDLs, while taming the complexity of object-oriented programming. As a result, the HDL Designer Series product, can significantly improve designer productivity by accelerating and optimizing design time by automatically evaluating RTL code quality, design integrity and analysis, and design visualization for effective design reuse.

The HDL Designer product is integrated with other Mentor Graphics ASIC flows, FPGA flows and supporting applications including: simulation, formal verification, hardware-assisted emulation, synthesis, and place-and-route (P&R) environments, resulting in quality reuse and design portability.

“Mentor is a proven SystemVerilog leader among EDA companies, providing an optimum design and verification environment that address the methodologies required for today’s design complexity,” according to Mike Baird, president of Willamette HDL, a SystemVerilog industry authority and training consultant. “Mentor’s support of SystemVerilog through its HDL tools further demonstrates their commitment to customer needs and productivity.”

Another important feature of the HDL Designer product is documentation for design reviews, communications between design groups, and establishing an archival system for future reuse. Within minutes, designers can create an interactive website to describe designs both textually and graphically for effective design development and communications.

“HDL Designer for SystemVerilog provides a highly-productive environment for design reuse, design creation, and verification efficiencies,” stated Glenn Perry, Mentor Graphics general manager, design creation business unit. “Our goal is to help design teams significantly improve productivity through RTL reuse and applications of new standards, like SystemVerilog.”

## HDL Designer Series with SystemVerilog Support

The HDL Designer Series product supports the following SystemVerilog features in this current release:

- Mixed-language and dialect support
- Assertions and coverage reports
- The ability to instance SV1800 components with V95-compatible port descriptions in V95 BD/IBD to create structural design
- Auto detects, dialect, and top-of-design
- Where Used and Where Bound reports
- Additional Browser Objects: SystemVerilog packages, program blocks, interfaces, and classes

- Hierarchy Browser additions: program blocks, interfaces, and class instances
- File templates for new objects, such as epackages and classes
- Cross-highlighting
- Updated viewpoint options

## **HDL Designer Series Pricing and Availability**

The HDL Designer solution with SystemVerilog is available now, with pricing starting at \$6,900 (USD). For more information, visit our website: <http://www.mentor.com/hdl>, contact a local Mentor Graphics sales office, or call 1-800-547-3000 for specific product and pricing details.

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## ***Sequence Extends Low-Power Leadership: Two New Patents, CTO Frenkil Featured In New Design Tome***

2 November 2007

Sequence Design continues to excel by adding two important patents and announcing Sequence CTO Jerry Frenkil has a featured chapter in a new book about low-power design.

Sequence's two new patents enable greater power reduction during physical design. U.S. Patent No.7222318, "Circuit Optimization For Minimum Path Timing Violations," describes a method to optimize delay insertions for reducing timing violations. U.S. Patent No.7222311, "Method And Apparatus For Interconnect-Driven Optimization of Integrated Circuit Design," enables post-layout optimization of an integrated circuit, so designers can avoid costly design iteration loops that require re-synthesis, re-place and re-route. Both patents target timing optimizations which are used to realize greater leakage and dynamic power reduction during physical design.

Sequence currently holds 26 U.S. Patents, and Frenkil says R&D is "focused like a laser beam" on advancing the company's comprehensive DFP strategy. "Designers recognize that effective power management is now a necessity," Frenkil said. "The Sequence DFP flow gives them the tools and methodologies they need today to be successful."

## **Sequence DFP Advantage**

During design, the Sequence DFP flow offers:

- Early power analysis at RTL enabling efficient design for power when such efforts are most effective
- The industry's most comprehensive portfolio of power reduction and power debug solutions available at RTL that demonstrate 25-50% power savings
- Qualification of simulation vectors for package selection and power-grid design

During physical implementation, Sequence delivers:

- Accelerated, predictable power closure of large (>800M transistors) high-performance designs with more than 33% advantage in time to market
- Reliable power-grid integrity with a comprehensive set of technologies for a variety of low-power design techniques

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- 20-60% leakage power reduction while preserving timing and signal integrity, achieving time-to-market savings of 7-10 days per SoC block

## New Book Features Frenkil

A new book from Springer, "Closing the Power Gap Between ASIC & Custom, Tools and Techniques for Low-Power Design," describes how to achieve low power and energy efficiency in highly productive design methodologies. Frenkil's chapter, co-authored with Srini Venkatraman, principal R&D engineer at [Sequence](#), covers power-gating techniques and methods to control leakage power. For more information: <http://www.springer.com/west/home/generic/search/results?SGWID=4-40109-22-77145813-0>. (Due to its length, this URL may need to be copied/pasted into your Internet browser's address field. Remove the extra space if one exists.)

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## ***SpaceClaim Professional 2007+ Sets the Bar for CAD Interoperability***

6 November 2007

SpaceClaim Corp. announced the newest release of its flagship product, SpaceClaim Professional 2007+. The software delivers advanced file open and modification capabilities for concept design, engineering analysis and manufacturing to directly contribute their expertise to 3D product design.

SpaceClaim Professional 2007+ major enhancements include the ability to open, modify and create sheet metal parts, work with lightweight assemblies, drive 3D modifications via 2D sections, add and modify driving dimensions and supports integration with CAD-neutral partner applications. SpaceClaim Professional 2007+ advances SpaceClaim's intuitive 3D modeling capabilities and builds on core technology to address the pain of CAD interoperability and make 3D more accessible to a broader group of product development professionals.

The new capabilities in SpaceClaim Professional 2007+ let the extended development team import and work freely with the designer's model, without having to understand the method used to construct it. Engineers across multiple disciplines are able to immediately add their expertise to the design, rather than spend time deciphering the model or struggle with the software, increasing productivity and hastening time to market.

"I have been impressed with SpaceClaim and how intuitive it is to use," said 2007+ Beta client David Maloney, Sr. Engineer at JACO Manufacturing. "JACO manufactures sheet metal parts coming from a mix of customers and CAD systems. With SpaceClaim we easily import the model and then flag it as a sheet metal part. We can then make any modification we need to accommodate our manufacturing process. Before we had SpaceClaim we struggled to make changes to the models we received. What used to take hours using our old process, now takes minutes."

"SpaceClaim Professional 2007+ release is a significant milestone for the company. This release comes just 8 months after the initial release of the product, and includes many capabilities and enhancements requested by our growing client base," stated Michael McGuinness, COO of SpaceClaim Corp. "We are seeing worldwide acceptance of our CAD-neutral modification solution across multiple industries. They all have a similar challenge of addressing CAD interoperability and extending the benefits of working in 3D to more participants in the development process. These companies see SpaceClaim as the solution."

Enabling Collaboration throughout Multi-CAD Environments

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SpaceClaim Professional 2007+ includes a powerful and robust set of client driven enhancements, new capabilities and partner integrations.

**Sheet Metal Module** provides intuitive 3D modeling for sheet metal parts. The capabilities include automated bend relief, unfold and ability to work simultaneously in 3D and flat pattern. The software automatically understands modeling intent, such as bend type, based on user edge selections on the model. Sheet metal properties wall thickness, bend radius and K-factor can be assigned. Imported thin-walled models are recognized as sheet metal parts and behave as native SpaceClaim models.

**3D Section Modification** provides a familiar and intuitive way to modify a model for those more comfortable working in 2D. A virtual cross section can be placed anywhere within a part or assembly and modified. Changes to the 3D model can be made simply by pulling an edge or vertices. 3D functions such as pull, move, round, shell, mirror and combine can be used while working in the 2D plane.

**Lightweight Assemblies** provide fast retrieval of large assemblies. Assembly components can be selected as needed for full retrieval and modification. Changes can be made in context of the full design, reducing the likelihood of component interference and assembly mismatch.

**ECAD Integration** supports data exchange with ECAD systems for printed circuit board design (PCBs). IDF and Mentor PADS file formats can be imported, automatically generating 3D board and component models. Components can be visually checked for interference and 3D models are available for stress or thermal analysis.

**Driving Dimensions** capture design intent at any product development stage. Design variables, such as a dimension between ribs, are associated with a user-named geometry selection, for example “support rib.” The dimension can be modified at anytime, or removed if the design intent is no longer valid. The driving dimension is accessible to third-party applications, such as analysis, that typically solve for one or two key design variables rather than a set of many parameters.

The SpaceClaim Professional 2007+ release includes many enhancements requested by the Company’s client community. Advanced Geometry capabilities have been extended to include the ability to create and modify bounded blends, helical surfaces, and standard shapes (e.g. hexagons). Geometric patterns are enhanced to allow for fast review of design alternatives. Holes can be directly modified into a slot for “on the spot” manufacturability. And additional drawing capabilities include more view types, geometric dimensioning and tolerances, annotations and associative notes for improved documentation and communication.

## Integrated Partner Solutions

SpaceClaim Professional 2007+ adds support for a number of market leading third-party applications used by the extended development team.

The 2007+ release includes support for Adobe® Acrobat® 3D Version 8 file format. With SpaceClaim Professional 2007+, the extended development team can open a 3D PDF file, modify the geometry and save it back as a 3D PDF file for improved 3D collaboration and communication.

The latest release supports integration with ANSYS® Gambit and ANSYS Workbench products. Both applications can be launched from within SpaceClaim, and the model automatically exported to the application for pre-processing and analysis. The combined solution enables analysts to simplify the master CAD model, independent of the originating CAD system, for faster pre-processing, and to optimize the design based on analysis results.

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SpaceClaim Professional 2007+ supports open, modify and save of the Rhinoceros® file format (.3dm). The solution provides improved collaboration between industrial and mechanical design disciplines resulting in better product designs and faster time-to-market.

A Development API is provided with SpaceClaim Professional 2007+ for clients to integrate their internal applications. Third-party developers can also make use of the API after signing a standard Developers Agreement.

## Availability

SpaceClaim Professional 2007+ will be released on 15 November 2007.

The SpaceClaim product line includes: SpaceClaim Professional 2007+ with complimentary Home Edition, 3D Data Exchange products (includes Rhino import/export), Sheet metal Module, ECAD Integration Module, JT Open Data Exchange, CATIA V5 data exchange and SpaceClaim standard parts library.

The software is available in English, Japanese, German, French, Korean, Italian, Traditional and Simplified Chinese languages.

SpaceClaim Professional 2007+ is available through resellers worldwide and for purchase and download from the company's web site, <http://www.spaceclaim.com/>.

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## ***Synopsys and UMC Deliver 65-Nanometer Reference Flow***

7 November 2007

[Synopsys, Inc.](#) and UMC announced the release of a 65-nanometer (nm) hierarchical, multi-voltage RTL-to-GDSII reference design flow. The flow is based on Synopsys' Galaxy™ Design Platform and features the IC Compiler place-and-route solution and the Design Compiler® Ultra topographical synthesis solution for comprehensive design implementation support. Key features of the reference flow include support for power management with multi-voltage design and power gating, as well as design-for-manufacturing (DFM) capabilities with the addition of critical area analysis (CAA).

Power gating reduces standby leakage by shutting off areas of the chip that are not in use for a particular function. The CAA capability, provided in IC Compiler, determines the likelihood of random particle defects affecting the overall design. Engineers can use this capability to identify design structures that have a higher probability of yield loss and correct them before manufacturing. This combination of tools and flow better equips engineers to reduce power consumption and improve yield, both significant 65-nm design challenges.

The reference flow also utilizes Synopsys' Design Compiler Ultra topographical synthesis engine, enabling engineers to accurately predict chip performance results such as timing, area, testability and power consumption during logic synthesis. Using this engine, engineers can evaluate the chip and make early-stage modifications to provide a better starting point for physical implementation, reduce or even eliminate iterations between synthesis and physical implementation, and accelerate the design cycle.

"Our goal is to help customers increase their ability to achieve first-pass silicon success," said Stephen Fu, deputy director of the IP and Design Support Division at UMC. "Our ongoing collaboration with Synopsys has helped us develop this validated 65-nm reference flow and we expect this will help reduce design risk, lower power consumption, and reduce turnaround time for our customers."

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The reference flow also includes automatic level shifter insertion, placement, optimization and verification. Voltage area (VA) creation, power-switch cell insertion, VA-aware physical optimization, clock-tree synthesis and routing are utilized to reduce dynamic power consumption. The multi-voltage timing flow closure includes signal integrity (SI) prevention, repair and signoff, and multi-voltage analysis. Additional DFM features include redundant via insertion, via-farm/via-array rules, and timing-driven metal fill.

Synopsys Professional Services and UMC engineers validated the reference flow using the test chip tape-out for "Leon," an open-source 32-bit RISC microprocessor core. The test chip was partitioned into multiple voltage regions using the advanced, low-power reference flow. UMC also utilized its own internally developed library for its 65-nm design process. The resulting test chip is highly configurable and expandable with additional digital and analog/mixed-signal intellectual property.

"As technology nodes become more complex, our strategic partnerships with world-class foundries like UMC are vital to help customers solve power management and yield challenges," said Rich Goldman, vice president of Strategic Market Development at Synopsys. "Through our collaboration with UMC, we now have a validated 65-nm reference flow that helps engineers to meet their design schedules and incorporates manufacturing technology for improved yield."

The reference flow is derived from Synopsys' Pilot Design Environment and was developed by UMC and Synopsys Professional Services. The reference flow uses Synopsys' technology-leading Galaxy Design Platform including the Design Compiler Ultra synthesis solution, IC Compiler place-and-route solution, DFT MAX test solution, JupiterXT™ floorplanning solution, PrimeRail rail analysis solution, PrimeTime® sign-off solution, Star-RCXT™ extraction solution, Hercules™ PVS physical verification solution, and TetraMAX® automatic test pattern generation (ATPG) solution.

## Availability

The UMC/Synopsys reference design flow is available today. Customers can contact [UMC](#) for more information.

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## *Synplicity and Lattice Expand Partnership to Include DSP Synthesis*

5 November 2007

Synplicity, Inc. and [Lattice Semiconductor](#) have expanded their relationship to include delivery of a highly optimized, non-proprietary ESL synthesis flow for DSP design. Synplicity's Synplify® DSP software now supports the LatticeECP2M and LatticeXP2 Field Programmable Gate Array (FPGA) devices, creating a powerful solution for DSP algorithm implementation in aerospace, wireless, telecom and digital multimedia applications.

"After looking at other commercial alternatives, we believe that Synplify DSP support for Lattice FPGA devices offers superior efficiencies and better performance for our mutual customers," said Stan Kopec, Lattice corporate vice president of marketing. "The optimized DSP algorithm implementation in the Synplify DSP technology, combined with the LatticeECP2M devices' powerful DSP blocks and massive memory, and with the Flash-based flexiFLASH architecture of the LatticeXP2 family, delivers users exceptional design advantages for communication and multimedia algorithm design."

The Lattice-Synplicity relationship leverages the distinct competencies of each company to present new and innovative solutions for DSP algorithm design. The Synplify DSP software, Synplicity's ESL

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synthesis platform, offers high-level modeling and hardware abstraction, constraint-driven algorithm synthesis into RTL and powerful system-wide optimizations for performance, area and multi-channelization tradeoff exploration. The combination of Synplify DSP and Lattice FPGA architectures helps designers capture multi-rate DSP algorithms quickly and easily. Designers can perform architectural exploration across multiple Lattice devices and create algorithmic IP that is highly portable and reusable, so users can easily map their DSP algorithms into any computing platform.

Andy Haines, senior vice president of marketing for Synplicity, said, “Our strategic relationship with Lattice provides an advanced alternative to other DSP-based design tools. Equally important, we are giving users of The MathWorks Simulink® environment, for multi-domain simulation and model-based design, a new target vendor for their FPGA designs: Lattice.”

According to Haines, the expanded relationship with Lattice is expected to provide real user benefits for the implementation of DSP algorithms into silicon. With M-Control fully integrated into the Synplify DSP library and The MathWorks Simulink environment, data type and sample rate inheritance and propagation are fully supported. M-Control features inline debugging for supporting breakpoints and stepping into the M code. These features greatly simplify the specification and verification of control functionality that is often integrated into DSP algorithms. Moreover, with a comprehensive IP library of industry-standard functional blocks, such as FFTs, Viterbi decoders, DDS and CORDIC math functions, mutual customers of Lattice and Synplicity now can create designs rapidly in application-specific domains.

Synplify DSP is also well suited for wireless algorithm design, so Lattice users can develop FPGA-based applications for digital RF/IF processing, FEC (forward error correction) and digital multimedia (audio and video) encryption, as well as high-performance computing. Vector support in Synplify DSP dramatically reduces the effort needed to create multi-channel wireless algorithms and multi-antenna algorithms such as MIMO, video, radar and security applications. These features enable customers to rapidly describe, verify and implement complex wireless algorithms (such as WiMAX, 802.11 a/b/g/n and DVB standards) into hardware devices.

For high-performance DSP applications, Lattice devices provide up to a 50 percent performance and 75 percent logic utilization improvement over other solutions when implementing common DSP functions. Through advanced 90nm silicon technology, an optimized architecture and proprietary circuit design, Lattice devices reduce total solution costs by up to 30-50 percent compared to other FPGA solutions. It is believed that these distinct advantages will promote the adoption of FPGAs within the \$20 billion ASIC marketplace.

Working in conjunction with Synplicity’s Synplify, Synplify Pro and now Synplify DSP, Lattice offers a broad set of powerful tools for all design tasks including project management, IP integration, design planning and place and route, as well as in-system logic analysis for a comprehensive design solution for engineers.

## **Pricing and Availability**

The Synplify DSP software, offering support for Lattice devices, is now available. Pricing starts at \$9,950.

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# CIMdata PLM Industry Summary

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## ***Tribold Launches Portfolio Product Manager (Tribold PPM) Version 2.5***

7 November 2007

Tribold announced the latest version of its Product Management enterprise application software, specifically built for Communication Service Providers (CSPs). Tribold Product Portfolio Manager (Tribold PPM) version 2.5 builds on the existing capabilities of the application to deliver a wide range of functional enhancements and new features designed to improve time-to-market and increase profitability for CSPs.

Set against the five pillars of effective product management: Product Data Management (PDM), Product Data Integration (PDI), Product Lifecycle Management (PLM), Product Business Intelligence (PBI) and Product Channel Management (PCM), and in alignment with TeleManagement Forum's Shared Information / Data Model (SID), Tribold PPM v2.5 features a number of key enhancements specifically to elevate role-based portfolio management and promotion launch within the CSP.

CSPs will now be able to assign permissions to specific types of users such as product management, product marketing and service specification. They will also have the ability to control the users actions according to their position in the company, the department they work for and the access or visibility levels granted by the administrator, thus ensuring an overall tiered view of the product.

Role-based portfolio management also extends the product catalog access rights to trusted channel partners and suppliers. This capability enables external users and third parties to create, update, view and reuse products and attributes directly in the catalog and allows for faster development in the product-shaping process.

Coupled with the enhanced flexibility in defining and launching seasonal and competitive promotional offers, CSPs adopting the Tribold technology will now more than ever be at the forefront of product time-to-market and cost-to-market.

Catherine Michel, Chief Technical Officer at Tribold, said: "Real-time collaborative product development is a major step forward for CSPs, and allows for more efficient communication across the business critical PLM process. The benefits of this include reduced time-to-market and cost-to-market, and as CSPs handle an ever-increasing amount of products the need to get Product Management right is paramount.

"Tribold PPM v2.5 has built on the success of its predecessor and offers CSPs the best product in the market in which to handle product portfolios from inception to delivery. Effective product management is rapidly becoming the best practice within the industry, and our aim is to take this to the next level with Tribold PPM v2.5."

Tribold Product Portfolio Manager version 2.5 is now generally available. For further information on Tribold Portfolio Manager v2.5 and a demonstration, visit <http://www.tribold.com/>.

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