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Acquisitions

Autodesk Extends 3D Leadership with Acquisition of NavisWorks

31 May 2007

[Autodesk, Inc.](#) announced that it has signed an agreement to acquire NavisWorks, a privately-held company based in Sheffield, England that provides software for 3D coordination, collaboration and sequencing in design and construction for approximately \$25 million in USD cash, subject to a working capital adjustment. The acquisition underscores Autodesk's commitment to help its customers derive the greatest possible value from the information created during all phases of the design process.

NavisWorks is a global provider of software that enables full exploitation of the benefits of 3D digital designs in the construction, plant and marine design markets for purposes ranging from design coordination and clash detection to construction simulations. Its products are used by many of the world's leading construction companies, architects, engineers, process and power firms and shipbuilders. NavisWorks products support increased interoperability by coordinating design information from

CIMdata PLM Industry Summary

multiple sources. The company is also a Charter Member of the USA National BIM standard. Autodesk currently plans to offer new solutions that incorporate both NavisWorks and Autodesk technology, and to continue supporting the existing NavisWorks product line

"The acquisition of NavisWorks is part of Autodesk's commitment to offering more complete solutions across the AEC industry" said Jay Bhatt, senior vice president, Autodesk AEC Solutions. "The addition of NavisWorks technology to the Autodesk portfolio will help our customers leverage their design data to make better design and construction decisions and increase the value of their investments in design technology."

"For more than 7 years, NavisWorks solutions have helped design professionals across the construction, building, plant, and marine industries better collaborate, create more coordinated designs, and work more efficiently," said Peter Thompson, CEO of NavisWorks. "The combination of NavisWorks and Autodesk technology is an excellent match. Our products augment the coordinated, consistent, and computable information produced by the Revit platform for building information modeling, and can aggregate that information with data from other sources including AutoCAD, Inventor and Civil 3D, to build the most complete understanding possible of the overall project. We are excited to join the Autodesk family."

Business Outlook

This transaction is expected to have no impact on targeted non-GAAP EPS for fiscal 2008. Non-GAAP EPS excludes in-process R&D expenses and the amortization of acquisition-related intangibles. Autodesk is currently unable to provide estimates of the future impact of this transaction on GAAP earnings per share.

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CIMdata News

Executive Webcast: Innovation in Manufacturing

29 May 2007

[Innovation in Manufacturing](#)

Sponsored by Microsoft Corp., brought to you by *Design News*

The need to bring sophisticated, highly valued goods to market — to compete with more commodity-like products sourced from low-cost regions — puts the premium on product innovation. But what does it take to optimize innovation efforts?

[View Now](#)

CIMdata PLM Industry Summary

Tune into *Design News*' Executive Broadcast to hear Ed Miller, President of CIMdata, discuss issues related to *Collaborative Product Development*, including the following:

Business processes and business practice

Project, portfolio, and content management

Enriching collaboration environments

Integrating product data

[View Now](#)

SPECIAL OFFER:

Get the first Excellence in Product Development Analyst Report from CIMdata.

PLUS, a one-year trial of Microsoft Office Groove 2007 with ten user licenses, a \$5,000 value.

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“Leveraging Product Knowledge Integration”: A CIMdata Review of Proficiency’s Collaboration Gateway Program

May 29, 2007

[CIMdata](#) consulting and research firm published a brief program review of Proficiency’s Collaboration Gateway™ approach to addressing product knowledge integration. The report, entitled “Leveraging Product Knowledge Integration: Enabling Product Information Re-Use throughout the Enterprise” is available for downloading on the CIMdata website.

John MacKrell, CIMdata Senior Consultant, explained that Product Knowledge is the accumulation of information that is derived during the design, analysis, testing, and production planning for a product. It includes specifications, design data, test data and results, production process plans, and maintenance, service and repair information. He emphasized that for organizations to be innovative and competitive, they “need to be able to leverage their Product Knowledge and integrate it into the product development process so it can be re-used in a coordinated and organized way.” Mr. MacKrell observed that Product Knowledge is a critical asset that is often ignored because it is difficult to capture and reuse. “Unfortunately the loss of Product Knowledge results in companies having to resort to redesigning parts, which is very costly both in terms of time and money.”

According to Mr. MacKrell, Proficiency’s Collaboration Gateway addresses many of these issues adding that, “The solution makes complete Product Knowledge exchange possible and cost effective and makes

product knowledge visible to more decision makers.” He noted “the strength of this solution is in situations where multiple product definition solutions are used in companies or supply chains.” Mr. MacKrell concluded that given that product development innovation, quality, and speed rely on collaboration among all of the people in the extended enterprise having appropriate access to high-value product knowledge, “the Proficiency Collaboration Gateway becomes an important enabler to the success of PLM initiatives and the businesses that employ PLM.”

About CIMdata

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

CIMdata works with both industrial organizations and suppliers of technologies and services seeking competitive advantage in the global economy. In addition to consulting, CIMdata conducts research, provides PLM-focused subscription services, and produces several commercial publications. The company also provides industry education through international conferences. CIMdata serves clients worldwide from locations in North America, Europe, and Asia Pacific.

To learn more about CIMdata’s services, visit our website at www.CIMdata.com or contact CIMdata at: 3909 Research Park Drive, Ann Arbor, MI 48108, USA. Tel: +1 (734) 668-9922. Fax: +1 (734) 668-1957, or Siriusdreef 17-27, 2132 WT Hoofddorp, The Netherlands. Tel: +31 (0)23 568-9385. Fax: +31 (0)23 568-9111.

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Company News

Agile Software Selected by the 2007 American Business Awards as Stevie Award Finalist

May 29, 2007

[Agile Software Corporation](#), a leading provider of product lifecycle management (PLM) solutions, today announced that Agile was selected as a finalist in the Best New Product or Service category for the 2007 American Business Awards' [Stevie Award](#). As the only PLM vendor recognized, Agile earned recognition for the release of their latest version of the Agile 9.2 product line. The release, Agile 9.2.2, provides a broad and rich set of new capabilities, including embedded and enriched decision support, which better enables companies to automate cross-functional business processes and promote secure collaboration across global operations and outsourced partners.

"Being named a Finalist in The American Business Awards is an important achievement," said Michael Gallagher, founder and president of The Stevie Awards. "It means that independent business executives have agreed that the nominee is worthy of national recognition. We congratulate all of the Finalists on their achievement and wish them well in the competition."

Hailed as "the business world's own Oscars" (New York Post, April 27, 2005), The American Business Awards are the only national, all-encompassing awards program honoring great performances in business. More than 2,000 entries from companies of all sizes and in virtually every industry were submitted for consideration in more than 40 categories, including Best Overall Company, Best Executive, Best New Product or Service, and Best Corporate Social Responsibility Program. Agile Software will be competing in the New Product category for medium sized companies.

"We are pleased that Agile was recognized as the only PLM provider finalist for the Stevie Awards in the Best Product and Service category," said Jay Fulcher, Agile CEO and president. "The enhancement of the Agile 9.2 product line addresses the complex and changing needs of today's global manufacturer. The functional enhancements of this release, coupled with the embedded decision support capabilities, are unique and unprecedented in PLM."

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CEI's EnSight Visualization Suite to Be Distributed by SeaStars in China

31 May 2007

Computational Engineering International ([CEI](#)) announced that the Chinese firm SeaStars Co., Ltd. will distribute all of the American developer's visualization software throughout China. Best-known for its industry-leading EnSight software, CEI produces a full range of software applications for the scientific and engineering community covering all aspects of simulation, including meshing, plotting, process workflow, animation, and visualization.

"We're very pleased to be represented by SeaStars," said Darin McKinnis, CEI's vice president of marketing and sales. "Their experience and strong reputation in China will help CEI to further expand its client base in one of the world's largest and most explosive economies, and we're very optimistic about the many possibilities that this new partnership holds for us."

One of China's leaders in high-performance computing, CAE, and virtual reality, SeaStars distributes numerous CAE applications throughout China and offers its clients integration services and support. The company is also among China's first to invest in the research and development of virtual reality technology.

CEI's EnSight suite and its other advanced visualization applications will complement the technology that SeaStars currently offers, broadening the company's CAE expertise. "CEI's products will further enhance our capabilities and offerings, and we are very pleased to partner with them to offer their unique technology to our customers in China," said, Zhu Guangtao, chief operations officer at SeaStars.

For more information about CEI or any of its software, visit www.ensight.com. To visit SeaStars' site (in Chinese only), go to <http://www.seastars.com/>.

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Open Text Online Customer Community Applies Social Networking to Business

May 29, 2007

Social networks, online communities, blogs and wikis, have taken the Internet by storm, giving savvy marketers powerful new ways to reach consumers. So what about companies that sell to businesses? Are they missing the boat on the social networking craze? Not necessarily, according to [Open Text™ Corporation](#), a leading provider of Enterprise Content Management (ECM) software, which helps Global 2000 companies manage information. While the challenges are different, business-to-business firms are beginning to use online communities, blogs and similar technologies to help establish deeper customer connections that can boost the corporate bottom line.

Compared to social communities, such as Facebook or MySpace which target people in casual, social settings, business communities must reach people in the context of their professional lives, offering a wide range of information in a self-service setting that helps them in their jobs and careers. Open Text's customer community initiative, called Open Text Online (OTO), has helped Open Text better connect with its corporate customers, giving the large, global organizations that use Open Text's software a powerful new resource over and above the formal support and training programs.

"What our customers want more than anything is detailed, useful information they can take back to their business, and a genuine exchange of ideas, minus a heavy-duty sales pitch," said Open Text's Vice President of Customer Partnership Programs, Martin Sumner-Smith, who recently participated in a podcast (http://podcast.opentext.com/public/channel/rss/ot-ecm-news/item/12-OpenTextECMNews_OTO_final.mp3) on business-to-business customer communities and Open Text's approach. "Through Open Text Online, we have established customer communities which allow us to gain enormous insights and new ideas on how to improve our products and better meet the needs of our customers - all gained directly from an open, ongoing exchange with customers."

"Open Text's software is strategic to our business," said Jeff Brown, Business Analyst with BMO Financial Group and an OTO member. "The idea of a forum where we could access information, share ideas with our peers in other organizations, and learn about innovative things other Open Text customers are doing appealed to us. Enterprise software, by its nature, is very complex, so offering a forum like OTO which facilitates knowledge sharing isn't a 'nice to have', it's a necessity."

OTO already boasts close to 9,000 active members and many of Open Text's largest customers have as many as 50 to 100 members each in the community. Community members access a wide range of information, including customer case studies, product and strategy presentations, white papers, recorded webinars, and detailed information on how to effectively deploy technologies, such as enterprise records management software.

OTO is divided into three tracks, one for business and department managers and executives that use Livelink ECM, one for technical and development staff at customer sites, and one for partners. Open Text tracks what type of OTO information is most popular, helping to keep the site's content fresh and useful.

OTO was a highly strategic component which helped the company communicate with customers during Open Text's acquisition of Hummingbird in October, 2006. Following the acquisition, Open Text created a special site within OTO for Hummingbird customers, where they could exchange information, get questions answered, and find details on Open Text's strategy and product plans. The site opened another channel of communication to better understand customers' needs and concerns.

OTO uses Open Text's own Communities of Practice solution built on Livelink ECM, which provides a central workspace where users can establish communities, publish relevant news, share documents and participate in blogs. For more information about Livelink ECM - Communities of Practice, go to: <http://www.opentext.com/2/sol-products/sol-pro-docmgmt-collaboration/pro-ll-communities-practice.htm>.

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Proficiency's Collaboration Gateway™ Reviewed by Leading Research Firm, CIMdata—Report Underscores Value in Leveraging Product Knowledge Integration in the Manufacturing Design Process

May 29, 2007

[Proficiency, Inc.](#), the leading developer of product knowledge integration solutions for manufacturers and their suppliers, today announced that [CIMdata](#), a leading consulting and research firm, has published a program review of Proficiency's Collaboration Gateway approach to addressing product knowledge integration. The report, entitled "Leveraging Product Knowledge Integration: Enabling Product Information Re-Use throughout the Enterprise," is available for downloading on the CIMdata website.

"In order for organizations to be innovative and competitive they need to be able to leverage their Product Knowledge and integrate it into the product development process so it can be re-used in a coordinated and organized way," said John MacKrell, CIMdata Senior Consultant. "Product Knowledge is a critical asset that is often ignored because it is difficult to capture and reuse. The loss of Product Knowledge results in companies having to resort to redesigning parts, which is very costly both in terms of time and money," he added.

According to Mr. MacKrell, Proficiency's Collaboration Gateway makes complete Product Knowledge exchange possible and cost effective and makes product knowledge visible to more decision makers. He noted that the strength of this solution is in situations where multiple product definition solutions are used in companies or supply chains.

“The review of the Proficiency Collaboration Gateway by CIMdata, a well-respected industry authority, reinforces the role our solutions play in product lifecycle management,” said Alex Shapira, President and CEO, Proficiency, Inc. “Due to increased product complexity, the market needs robust solutions at the product knowledge level rather than just geometric translators to address the diversity of engineering and manufacturing environments.”

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RAND Worldwide Completes Agreements to Sell Select European Operations

28 May 2007

Rand A Technology Corporation (“RAND Worldwide™” or the “Company”) announced that it has completed agreements to sell its wholly-owned subsidiaries in Finland and Denmark. Financial terms of the agreements have not been disclosed.

“We are pleased to announce the completion of these agreements,” said Frank Baldesarra, President and CEO of [Rand Worldwide](#). “We will be able to redeploy resources to further drive the growth and development of our parent company, while still maintaining a foothold in the European PLM market to preserve key relationships with our European employees and customers, as well as with our PLM partner, Dassault.” The divestiture will significantly reduce the Company’s operating expenses, resulting in annual cost savings of approximately \$1.0 million. RAND will retain a presence in Europe by continuing to manage its remaining divisions.

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Solix Technologies Names New Vice President of Sales, Vice President of Strategic Alliances and Vice President of Engineering, SAP Solutions

May 29, 2007

[Solix Technologies](#), a leading provider of enterprise data management solutions for compliance and information lifecycle management, today announced three seasoned executives have joined the Solix executive management team from EMC Corporation, a private consulting firm for the storage industry and SAP. Craig Bradley, vice president of sales, joins Solix from EMC and is responsible for driving business development and revenue through both direct sales and channel partners. Greg Duplessie, vice president of strategic alliances, joins from a private consultancy firm that provided executive-level business consulting to companies such as Compellent and InMage Systems, and is responsible for establishing strategic relationships with technology partners such as NetApp and IBM, as well as building Solix's indirect sales channels. Prasada Pyala, vice president of engineering, SAP Solutions joins from SAP's Governance, Risk and Compliance business unit and is responsible for enhancing Solix's solution offerings for SAP.

CIMdata PLM Industry Summary

"We are extremely pleased to have Craig, Greg and Prasada on board with their vast experience in the data management space," said Shekhar Dasgupta, president and chief operating officer, Solix Technologies. "Solix is entering into a growth phase and Craig and Greg will be instrumental in driving strategic relationships to increase our sales while Prasada's extensive knowledge of SAP solutions will allow us to deliver a highly competitive data management offering to SAP customers."

Craig Bradley has devoted the majority of his career to building emerging technology markets that help customers protect and manage their corporate data. Craig has extensive leadership and management experience working at startups like WordPerfect, Crossroads and CommVault to industry moguls like Lotus and EMC. A team player, Craig will utilize all his experience to work with System Integrators, VARs and Industry market makers to help enterprise, government and mid-small business customers to understand and implement these emerging market products. Together with channel and industry partners Craig will manage the Solix sales team to bring real information lifecycle management to Solix customers thru Solix enterprise data management products. Craig is based out of Austin, Texas.

"It's all about the data," said Bradley. "It's not a cliché, it's true. My customers have burned this into my brain. They tell me they have to understand, utilize, protect and preserve their data to stay in business. They also tell me the solutions that they adopt that meet those needs must help them control operational costs, improve efficiency for end users, and be simple to implement and manage. These customer requirements are not easily met. At Solix Technologies, I found a team as passionate and dedicated to customers as I am, with a set of enterprise data management products that surpass our customer's most demanding needs. We are a great team, and I'm thrilled to be a part of it."

Greg Duplessie has held Business Development positions for leading technology companies including Neartek, sold to EMC in 2006, and Permabit, where he ran business development and established strategic partnerships with StorageTek and Hitachi Data Systems. Greg has served as a key member of several high technology consultancies, including Ridge Partners I, New England West, Enterprise Strategy Group, and Invincible Technologies. Greg is based out of Portland, Oregon.

"The merger of Solix's database tools with storage technologies, such as replication and secondary storage, greatly improves our end-user's ability to quickly implement compliance and ILM strategies," said Duplessie. "This is an emerging market that will only continue to gain momentum and I am excited to join Solix whose strong vision and execution will quickly make them leaders in this space."

Prasada Pyala was Vice President of Engineering for Virsa systems and was instrumental in growing Virsa's business from only a few employees to over 300 employees globally which was later acquired by SAP. Following Virsa's acquisition by SAP, Prasada became Vice President of Product Development at SAP. Prasada is a working board member of the Indian American council - Confederation of Indian Industry and holds a Bachelor's degree in Electronics and communication Engineering from Nagarjuna University in India. Prasada is based out of Sunnyvale, California.

"Solix has solid technology that can really add value to the SAP community," said Pyala. "What impressed me most about Solix was the fact that their solutions have been architected to leverage a single architecture to deliver multiple data management functions that can be implemented as needed. From an

engineering and technology perspective, they are one of a select few that realized this is best way to deliver solutions that truly streamline data management, especially in today's complex IT environments."

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Events News

Agile Presents at Pharmaceutical Packaging and Labeling Congress 2007

29 May 2007

WHO: Marc Sluijs, business consultant of [Agile Software Corporation](#) , will present "Uncovering the Hidden Value in your Packaging and Labeling Processes" at Visiongain's Pharmaceutical Packaging & Labeling Congress 2007 in London.

WHAT: This presentation will discuss how leading pharmaceutical companies are using Agile PLM to enable more effective and efficient processes throughout the product lifecycle. In this discussion, case studies will be used to demonstrate how leading pharmaceutical companies are improving their packaging and labeling processes, benefits these companies have realized and what prerequisites were needed for a successful transformation.

WHEN/WHERE: The Pharmaceutical Packaging & Labeling Congress is taking place 29-30 May 2007 at the BSG House, 226-236 City Road, UK. Agile Software will be presenting on Tuesday, 29 May, 2007 at 12:20 p.m. Agile Software will be on site for the duration of the conference.

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Astoria Software to Highlight SaaS Flexibility With Astoria On-Demand at PTC/USER World Event 2007

May 29, 2007

Driving the next generation in dynamic product documentation, [Astoria Software](#) today announced it will showcase the advantages of an on-demand delivery model at PTC/USER® World Event 2007, the exclusive educational, networking and training event for the PTC/User community being held June 3-6, 2007, at the Tampa Convention Center in Tampa, Florida.

As an event sponsor, Astoria will be in the Arbortext Pavilion booth #115, demonstrating the recently-announced Astoria On-Demand, the company's Software as a Service (SaaS) offering for structured content management. Astoria will also demonstrate Astoria On-Demand integration with the PTC Arbortext editing tool, extending the business value of PTC's powerful editor with the SaaS delivery of Astoria's dynamic product documentation solution.

“With Astoria On-Demand, we’re giving Forbes Global 2000 manufacturers the power to release more products more quickly in more variations than ever before,” said Dan Ortega, vice president of marketing for Astoria Software. “Attendees will see that we’ve created a scalable solution for rapid, low-cost creation and delivery of complex product documentation. With PTC Arbortext integration, we’ve filled out our offering with a powerful and flexible content editor.”

While at the show, Astoria will also make a joint integration and marketing announcement with Idiom® Technologies, Inc., the leading independent supplier of SaaS and on-premise server-based globalization management systems (GMS). The integration will unite Astoria On-Demand with WorldServer On-Demand, Idiom’s comprehensive, online globalization management system, to help customers respond to increases in volume, velocity, and variability of product documentation. Idiom also will be at the show, exhibiting in the Arbortext Pavilion booth #215.

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CAD Schroer at PTC/USER World 2007

29 May 2007

CAD Schroer Group ([CSG](#)) will be offering some very special deals to visitors at the PTC/USER world event, focusing on STHENO/PRO, the legacy data management and drafting solution fully integrated with Pro/ENGINEER, Pro/INTRALINK® and Windchill PDMLink™.

CAD Schroer is offering over 70% savings to current Pro/ENGINEER users upgrading from non-integrated 2D packages, and promoting the ultimate 2D-3D design solution with special discounts on a Pro/ENGINEER Foundation XE + STHENO/PRO ADVANCED Value Package, offered by select CSG resellers in the United States.

It’s time to combine the best of the 2D and the 3D world

“Now you can edit and update legacy drawings in an easy-to-use 2D environment as you design new products with the industry leading 3D CAD solution – with bi-directional, seamless data transfer between the two.” That’s the message CSG and its partners are sending out loud and clear to all Pro/ENGINEER users.

About STHENO/PRO

STHENO/PRO replaces the need for a 3-tier (Pro/E – 2D – paper) approach, working hand-in-glove with Pro/DETAIL™, offering bi-directional data exchange, and the incorporation, editing and maintenance of raster data. It allows for the quick and easy creation of things like 2D concepts, layouts and tender designs, as well as 2D adaptations of Pro/DETAIL® sheets for product designs, technical manuals, and installation designs. STHENO/PRO opens DXF/DWG designs without data loss and supports the latest AutoCAD® 2007 format.

Developed in partnership with PTC®

“PTC and CSG have been working in close partnership to ensure that STHENO/PRO’s development is tightly aligned with PTC’s Pro/ENGINEER strategy,” says Michael Campbell, Vice President of Product Management at PTC. “The product has now reached an impressive degree of maturity and technical innovation, and we fully endorse it as the ideal 2D partner application for Pro/ENGINEER, obviating

some of our customers' need for separate drafting packages, such as AutoCAD®. Pro/ENGINEER and STHENO/PRO work hand-in-glove to form the ultimate 2D to 3D solution in companies with a considerable 2D legacy or supply chain."

Find us at Booth 411 and View our Presentation

For a good look at STHENO/PRO and the special tradeshow discounts available, visit CAD Schroer at Booth 411, and don't miss the CSG presentation "Drafting and Pro/ENGINEER – Looking for the Perfect Fit?" on Monday, 4 June at 1:15 p.m.

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



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Cimatron's Sam Golan Interviewed about the State of Tooling and Manufacturing

31 May 2007

Sam Golan, CEO and President of [Cimatron Technologies Inc.](#), was interviewed earlier this month on the state of the tooling and manufacturing industry. The interview is now accessible as a podcast at <http://www.podcasternews.com/programs/87/better-process-podcast/4071/>

Talking with Ken Rayment, host of The Better Process Podcast, Golan shared his views on the challenges faced by North American tooling and manufacturing shops and how these challenges can be overcome: "The real challenge today is competing in the global economy. We can no longer work the way we used to. Manufacturers are experiencing pains associated with quality, cost, and delivery times, which are all tightly related to each other. To overcome these challenges, we must first admit that these pains exist and that change is needed."

When asked about what Cimatron does to help manufacturers compete, Golan referred to the process of tool shop optimization offered by Cimatron as a free service to toolmakers and manufacturers: "We tell shops that investing in technology is not enough. What they need to do first is optimize their tool shop processes. Only then can you decide on the right technology to accommodate the optimized flow in the shop."

Rayment started The Better Process Podcast with the goal of giving a voice to small and mid- sized manufacturing firms and sharing success stories that manufacturers can apply in their businesses. Rayment first came across Cimatron following an announcement of the company's recent donation of 160 seats to the Oakland Schools in Michigan. "With its generous donations to the education of future generations and by helping tool shop executives analyze and optimize their processes, Cimatron is taking a commendable approach that is helping the industry as a whole," said Rayment.

About Better Process Podcast

The Better Process Podcast features interviews on manufacturing-related topics, with specific emphasis on small and medium- sized manufacturing firms. Over 300 shows have been recorded to-date and new

shows are added almost daily. Recorded shows are free to download from iTunes (search for Better Process Podcast in the iTunes music store). More information on the show can be found at <http://www.betterprocess.com/>.

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COFES 2008 Set for April 10-13 in Scottsdale, AZ

23 May 2007

Cyon Research Corporation announced that its ninth annual COFES – the Congress on the Future of Engineering Software – will be held April 10-13, 2008 at the Scottsdale Plaza Resort in Scottsdale, Arizona. The annual gathering brings together the community of engineering software vendors, developers, resellers, analysts, and users for private and public discussion in a relaxed and informal – but intense – atmosphere.

COFES has focused on creating an environment where the strength of our community takes precedence over our individual needs to sell, and where we can openly discuss the important issues facing our business.

“Each year at COFES we adjust what we do to move the community forward. For COFES 2008 we will focus on the conversations begun during COFES 2007 that continue on the COFES website,” says Cyon Research CEO and COFES co-founder Brad Holtz. “We’ve laid the foundation for our community to continue the discussions year-round. In keeping with this vision, we’re restructuring the congresses for COFES 2008 to facilitate convergence within the community.”

Cyon Research welcomes all past attendees to continue the dialogue through open-ended discussion groups, analyst briefings, and colloquia, at COFES 2008. COFES is an invitation-only event. For more information on the forum, and how to obtain an invitation, please visit <http://www.cofes.com/>.

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Delcam to Sponsor International Toolmaking Conference

29 May 2007

Delcam, which was recently confirmed by CIMdata to be the leading supplier of CAM software and services to the global toolmaking industry, announced that it will sponsor the 12th World Conference of the International Special Tooling & Machining Association (ISTMA). The Conference is to be held in Joensuu, Finland, from 11th to 13th June.

ISTMA is an international association representing twenty-five special tooling and machining associations throughout the world. Collectively, ISTMA member associations represent over 8,000 companies and over \$40 billion U.S. dollars in annual sales.

The Association meets regularly to review developments affecting the toolmaking industry throughout the world. The theme for the 2007 Conference will be "Meeting the Demands of Globalisation". It will feature reports from the various member associations around the world, together with presentations from leading experts from the sector, including representatives of Audi, Nokia and Toyota. Roger Onions, who was recently appointed to the new post of International Business Development Director – Large Accounts at Delcam, will present a paper on "New materials and processes."

For further information on the ISTMA World Conference, visit <http://www.imtec.net/istma>

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Design Automation Conference Launches Mobile Web Site

29 May 2007

The Design Automation Conference (DAC) has launched a mobile version of the DAC Web site. Part of the conference organizers' ongoing investment in innovation, the new mobile-enabled DAC Web site was created to make it easy for conference attendees, exhibitors and presenters to conveniently access conference information from their mobile devices. The 44th DAC will be held at the San Diego Convention Center in San Diego, Calif., June 4-8, 2007.

The mobile DAC Web site contains a listing of exhibitors and booth numbers, the complete program in summary form and organized by day, as well as useful phone numbers and details on local transportation, hotels, and restaurants in the San Diego area. The site is accessible at <http://www.dac.com/mobile>; in addition, users accessing <http://www.dac.com/> can enter a mobile phone number to receive a text message with a link to the mobile-enabled version of the Web site.

"This is definitely the year to introduce a mobile site. In the last six to eight months, the major U.S. cellular providers have introduced 3G and WiFi-enabled cell phones and PDAs; worldwide, phones are equipped for fast data. Our attendees are people who always carry their mobile devices with them, and we're working hard to be sure that's all they have to carry to keep informed of what's happening at DAC," said Steve Levitan, general chair of the 44th annual DAC. "Our goal was to make the mobile Web site both fast and useful, so we made careful decisions regarding the information included. We are looking forward to feedback from our users this year on what more they would like to see for next year."

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DP Technology to Feature ESPRIT Software at PTC User World

25 May 2007

CAM industry leader DP Technology, creator of ESPRIT CAM software, will showcase the latest version of its product at PTC User World Event 2007, scheduled to take place in Tampa, Fla., June 3-6.

ESPRIT, to be featured at the event's booth No. 509, includes a variety of new and upgraded features, including enhancements and new functionalities for milling, turning and wire EDM programming.

With CAD to CAM interface, ESPRIT directly imports any native part model from any source, fully intact, with no need for programmers to edit or rebuild geometry. ESPRIT, which reads data from native formats — including PTC's Pro/ENGINEER software — allows for manufacturing flexibility with direct machining from any combination of geometries, be they solids, surfaces, wireframes or STL.

About ESPRIT

ESPRIT is a high-performance computer-aided manufacturing (CAM) system for a full range of machine tool applications. ESPRIT delivers full-spectrum programming for 2–5 axis milling, 2–22 axis turning, 2–5 axis wire EDM, multitasking mill-turn machining, and B-axis machine tools.

ESPRIT's capabilities include machining any part geometry (solid, surface, or wireframe), universal post processing to format G-code for virtually any machine tool, and solid simulation and verification with dry runs rendered in dynamic solids for optimal part quality and consistency. ESPRIT is 100 percent pure Windows®, and provides a comfortable and familiar user interface for maximum productivity.

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EVE to Display Acceleration, Fast Emulation, Easy FPGA Prototyping During DAC

29 May 2007

EVE, broad-line supplier of hardware-assisted verification, will exhibit during the 44th Design Automation Conference (DAC) in booth #4060 June 4-7 at the San Diego Convention Center, San Diego, Calif.

It will showcase the broadest selection of hardware-assisted verification solutions including acceleration, fast emulation and easy field programmable gate array (FPGA) prototyping available in the industry today. Highlights include demonstrations of simulation acceleration, hardware/software co-verification, transaction-based verification and in-circuit emulation at real speed. Among the demos, it will show a real-life situation where Linux will be booted in emulation and a device driver debugged using ZeBu's hardware and software debug features. It will also demonstrate ZeBu processing enough data to drive the live S-Video port of a TV without losing synchronization.

Additionally, EVE recently finalized the acquisition of Tharas Systems, Inc., and moved the entire Silicon Valley team to new Santa Clara headquarters. The address is: 2518 Mission College Blvd., Suite 101, Santa Clara, Calif. 95054. Telephone: (408) 855-3200.

More details on EVE and ZeBu (for Zero Bugs) can be found at: <http://www.eve-team.com/>.

For more information about DAC, visit: <http://www.dac.com/>.

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Mentor Graphics CEO to Moderate Automotive Panel at the Design Automation Conference 2007

May 25, 2007

[Mentor Graphics Corporation](#) today announced that Walden C. Rhines, the company chairman and CEO, will moderate the panel “Electronics: the New Differential in the Automotive Industry” on Wednesday, June 6, 2007, at the Design Automation Conference (DAC) in San Diego, CA. The conference runs from June 4 - 8. More information and registration for DAC can be found at <http://www.dac.com/>.

Who: Walden C. Rhines, Mentor Graphics’ chairman and CEO

What: Wally will moderate the panel “Electronics: the New Differential in the Automotive Industry.”

When: Wednesday, June 6, 2007 at 2:00 p.m.

Where: DAC, San Diego Convention Center, San Diego, CA.

The panel, which is designed to appeal to experts and non-experts alike, will explore whether the ability to conceive, design and implement electronic systems is the key competitive differentiator within the automotive industry, or if traditional factors such as styling and manufacturing excellence still apply. The dramatic impact on future automotive electronic technologies as well as the resultant challenges and opportunities presented within EDA will also be highlighted. Panelists include:

Andrew Chien—Ricardo Strategic Consulting, Detroit, MI

Deepak Goel—Formerly Ford Motor Company, Dearborn, MI

Christopher Hegarty—Infineon Technologies AG, Munich, Germany

Alberto Sangiovanni—Univ. of California, Berkeley, CA

Frank Winters—Delphi Electronics and Safety, Kokomo, IN

About DAC

The Design Automation Conference (DAC) is the premier Electronic Design Automation (EDA) and silicon solution event. DAC features over 50 technical sessions covering the latest in design

methodologies and EDA tool developments and an Exhibition and Demo Suite area with over 250 of the leading EDA, silicon and IP Providers. This year's special Automotive Theme addresses how EDA tools will be used to support the tremendous design requirements for automotive electronics.

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New GibbsCAM 5-Axis Option Demonstrated at PTC/USER World Event Americas 2007

31 May 2007

Gibbs and Associates, developer of GibbsCAM software for programming CNC machine tools, announced that a new GibbsCAM option, which supports 5-axis simultaneous milling, will be demonstrated at PTC/USER World Event Americas 2007. The new option further extends GibbsCAM's existing machining capability and provides the user with a complete range of 5-axis milling functionality. PTC/USER World Event is being held at the Tampa Convention Center in Tampa, Florida on June 3-6th, 2007. This is the third year that Gibbs and Associates, a Silver partner in Parametric Technology Corporation's Partner Advantage Program, has participated at PTC/USER World as a Bronze Premium Partner.

“In addition to multi-task machining, we are seeing an increased use of 5-axis machine tools in production manufacturing,” states Bill Gibbs, founder and president of Gibbs and Associates. “Not only do 5-axis machine tools minimize the number of set-ups required to machine a part, but many of the models being created by Pro/ENGINEER® contain geometry that can only be machined using 5-axis technology. Impellers, turbine blades, porting on cylinder heads, and wing spars are great examples of parts whose geometry requires 5-axis.”

The new 5-axis module introduces the following capabilities:

Multi-surface 5-axis roughing and finishing.

Multi-surface 5-axis flowline machining.

Surface edge 5-axis swarf cutting (trimming vacuum-formed parts)

Adaptable interface, based on part type strategy, shows only what is needed

Advanced gouge checking ensures safe cuts in even the most complex operations.

Complete control over entry/exit, cut-to-cut, and between cut moves.

5-axis depth cuts machining.

“5-axis technology provides the user with the ultimate amount of control when applying tooling to a part,” explains Mr. Gibbs. “Because of this, collision avoidance, improved surface finish, and reduced tool wear are some of the numerous benefits realized. With the new 5-axis module, GibbsCAM users will not only be able to machine parts they couldn’t before, but may even be able to improve the machining of parts they could.”

Gibbs and Associates licenses PTC’s Granite kernel to ensure seamless interoperability with Pro/ENGINEER. Visitors to PTC/USER can see demonstrations of the latest level of interoperability between GibbsCAM and Pro/ENGINEER® or see GibbsCAM’s new 5-axis capabilities, at the GibbsCAM Booth #609. Information about GibbsCAM is also available at the company’s website, <http://www.gibbscam.com/>.

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Verigy and Mentor Graphics to Co-Host Semiconductor Manufacturing Yield Learning and Logic Diagnosis Seminar Series

29 May 2007

[Verigy](#), a premier semiconductor test company, and [Mentor Graphics Corp.](#) are co-hosting a series of three half-day seminars in June on the latest advances in yield learning and logic diagnosis for semiconductor manufacturing.

Intended for product engineers, failure analysis engineers, test engineers, managers and executives interested in understanding how to ramp yield more effectively, the seminars will feature industry experts from Verigy and Mentor Graphics discussing advanced techniques for closing the gap between test, diagnosis and yield learning.

Seminar participants will hear presentations from Verigy and Mentor, which will introduce and propose solutions for:

- Collection of massive amounts of fail log data in production environments;

- Delivering "zero overhead" data collection from automated test equipment;

- Fast and accurate layout aware diagnosis from compressed test patterns;

- Statistical post-processing of the results;

- Calculation of feature based failure rates.

Registration Details

The Mentor/Verigy Yield Learning and Logic Diagnosis Seminars will be held in San Jose, Calif., on June 12; Austin, Texas, on June 19; and Waltham, Mass., on June 21, from 10 a.m. to 2:30 p.m., and lunch will be provided. Advance registration is required, but there is no cost to attend. Registration is available at the Verigy Web site at <http://www.verigy.com/go/events>.

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Financial News

Endeca Reports Record Q1 Revenue, Plans to Create Hundreds of New Jobs

31 May 2007

[Endeca](#) announced that it achieved record revenues on 92 percent year-over-year revenue growth in the first quarter. Recently named the fastest growing private company in Massachusetts with three-year revenue growth exceeding 1066 percent, Endeca also added 70 new positions during the quarter and announced plans to add several hundred more positions worldwide.

“We had predicted that 2007 would be a transformational year for Endeca and the information access market at large,” said Steve Papa, chief executive officer of Endeca. “During the first quarter we saw a variety of evidence – new types of customer engagements, new channel opportunities, new applications of our software – that suggests an accelerated pace of change in the market. Our investments over the past few years have put us in a unique and highly favorable position to capitalize on this transition and the emergence of new market opportunities.”

Q1 2007 Highlights Include:

Signed dozens of new customers and expanded the use of the Endeca Information Access Platform within the installed base: included key wins with organizations like BT Group, The Children’s Place, Dell, the Defense Intelligence Agency, Simon & Schuster, and Triangle Research Libraries Network
Named fastest growing private company in Massachusetts in an annual ranking by the Boston Business Journal: Ranking based on three year revenue growth

Named finalist for Copernican Award, recognizing customer-centric organizations: Annual award given by New York-based customer experience consultancy Creative Good; past winners include Google, Netflix, JetBlue, TiVo

Named as one of 20 to Watch in 2007 by Outsell, Inc.: Identified as one of 20 companies that will shake up the information and publishing industries in 2007, according to a new report from EPS, an Outsell, Inc. company. Endeca joins other rapid growth companies like Digg, Facebook, Mozilla FireFox, Salesforce.com Second Life and YouTube (now owned by Google).

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Implementation Investments

ABB Lummus Global Signs New License Agreement With AVEVA

29 May 2007

[AVEVA](#) announced that [ABB](#) Lummus Global has renewed its license agreement with AVEVA for the provision of AVEVA Plant Design technology globally within their business.

ABB Lummus Global uses AVEVA PDMS and AVEVA Global technology to effectively and efficiently manage 3D engineering design information on many of their multi-office executed projects.

Richard Longdon, CEO of AVEVA states "AVEVA has a relationship spanning almost three decades with ABB Lummus Global. In an increasingly competitive global marketplace, we recognise that our clients need to have the optimum processes in place to ensure that they are leading the field right from the outset of any project. This latest agreement will allow ABB Lummus Global worldwide to capitalise on AVEVA's evolutionary engineering technologies to execute projects with minimized risk."

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Autodesk Inventor and Autodesk AliasStudio Fuel Green Automobile Design

30 May 2007

[Autodesk, Inc.](#) announced that Palumbo Motorcar Company of America (Palumbo Motorcar, <http://www.palumbocars.com/>), a bold new car design and manufacturing company, is using Autodesk Inventor software and Autodesk AliasStudio software to design a high-performance, environmentally friendly concept car called the Palumbo M-80. Powered by a hybrid gas-electric drive train, the Palumbo M-80 will provide the high-end sports car market with an automobile that delivers not just speed and acceleration, but outstanding fuel economy and minimal environmental impact.

Both Inventor and AliasStudio played a central role in developing the 3D concept designs, drawings and components for the Palumbo M-80. Inventor software provides Palumbo with a comprehensive and integrated set of design tools for 3D design and documentation, creating routed systems and validating designs. AliasStudio provided Palumbo with a complete set of tools for their conceptual design process, integrating all design disciplines required for shape definition and communication, from sketching and visualization through production modeling, within a single intuitive working environment.

Palumbo is just one customer benefiting from the full Autodesk Manufacturing solution. The latest Autodesk manufacturing solutions redefine the product design process by supporting and natively connecting the disciplines involved in digital product development, from industrial design to mechanical and electrical engineering and manufacturing.

"Using AliasStudio to conceptualize our designs in 3D and manipulate them has optimized our design workflow," said Joe Palumbo, co-founder and president of Palumbo Motorcar. "The ease of use and quality of surface modeling makes the design process faster, therefore reducing the risk of altering or losing our initial design ideas."

Palumbo Motorcar is able to transfer its AliasStudio concept drawings into Inventor to create 3D digital prototypes. More than allowing Palumbo Motorcar to better communicate its design intent, it also allows the design team to make performance-related changes earlier in the process.

"With Inventor, we can review, assess and interact with our designs before they become a reality, checking the validity of our design and engineering decisions as we work," said Jason Palumbo, co-founder and director of engineering of Palumbo Motorcar. "Small design changes that normally would take days to make can be accomplished in minutes using Inventor software. As a result, the design stage of our prototyping has been reduced by nearly 75%, which means we can go into production sooner."

"We see an increasing trend of leading companies incorporating green principles into their corporate vision and developing products that promote a cleaner environment," said Robert "Buzz" Kross, vice president of Autodesk Manufacturing Solutions. "We are thrilled to help Palumbo Motorcar redefine the design of their Palumbo M-80 concept car with our powerful visualization, simulation and analysis technologies."

Wisconsin-based Autodesk reseller MasterGraphics provided ongoing training to Palumbo Motorcar to ensure that the company was able to derive full benefit from its Autodesk manufacturing solutions.

"Even though we're a small start-up company, we were able to immediately make the most of the 3D design environment, thanks to the broad range of learning and reference resources that are available for AliasStudio and Inventor," said Jason Palumbo. "The investment has paid off several times over in terms of productivity gains and has brought us closer to our vision of delivering a high-performance sports car that treads lightly upon the environment."

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Autodesk Announces Brazilian Synchrotron Light Laboratory as Inventor of the Month for May 2007

29 May 2007

Autodesk, Inc. announced that the Brazilian Synchrotron Light Laboratory (LNLS), a research facility operated by the Brazilian Ministry of Science and Technology, has been named as the Autodesk Inventor of the Month for May 2007. The Inventor of the Month program (<http://www.autodesk.com/inventorofthemoth>) recognizes the most innovative design and engineering advancements made by the extensive community of customers using Autodesk Inventor software, which provides manufacturing companies with the power to visualize and simulate the real-world performance of their design without a heavy reliance on costly physical prototypes.

One of only 40 synchrotron light laboratories in the world, the LNLS allows a broad range of scientists -- including physicists, chemists, biologists and materials engineers -- to use powerful X-Ray and Ultraviolet beams to gain new insights into the atomic and molecular structure of various materials. This knowledge can be applied to everything from life sciences research and the development of new medicines, to structural studies and semiconductor material analysis.

To better accommodate the diverse groups seeking to leverage synchrotron light technology, the LNLS designs and builds specific equipment for scientific applications. One such piece is the Elliptically

Polarizing Undulator (EPU), which gives scientists the freedom to change the light polarization between linear, elliptical and circular, and to widen the radiation peaks in terms of emission energy -- all of which allows users to more fully "see" the different characteristics of materials.

The LNLS relied upon Autodesk Inventor to design the EPU, which featured nearly 15,800 parts divided into 5,560 standardized machinery elements, with 453 non-repeated parts inside the assembly and other repeatable parts.

"Our internal need for designing and producing special parts and equipment in small quantities -- most of the time for one single unit, like the EPU -- benefited greatly from Inventor 3D modeling capabilities," said Milton Cesar Rocha, Mechanical Engineer at LNLS. "Being able to interact with a highly accurate digital prototype of our design concepts greatly reduces assembly errors and other inconsistencies, allowing us to optimize the design and manufacturing process."

With 3D visualization capability, the LNLS was able to confirm that the equipment assembly would be free of interference errors -- before the start of the manufacturing process. As a result, more time and resources could be devoted towards developing innovative functionality that supports scientific research and discovery.

"Autodesk best-in-class software is a perfect fit for an institution like the LNLS, whose research impacts and benefits the entire global community," said Robert "Buzz" Kross, vice president of Autodesk Manufacturing Solutions. "By leveraging digital prototyping, LNLS is able to create highly specialized equipment for its facilities, ensuring its standing as a premier research center."

Each month, Autodesk selects an Inventor of the Month from the more than 600,000 users of Autodesk Inventor software. Winners are chosen for engineering excellence and groundbreaking innovation. For more information on Autodesk Inventor of the Month, contact us at IOM@autodesk.com.

About LNLS

The Brazilian Synchrotron Light Laboratory (LNLS) is a research center of Science and Technology open to scientists of other Brazilian institutions as well as institutions from other countries. At LNLS, researchers have the necessary structure to perform materials research. It is operated by the Brazilian Association for Synchrotron Light Technology (ABTLuS) under a contract with CNPq, the National Research Council of the Ministry of Science and Technology and the Brazilian Ministry of Science and Technology (MCT).

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BP Licenses AspenTech's aspenONE® Process Engineering Suite

May 29, 2007

[Aspen Technology, Inc.](#) announced a six-year license agreement with BP for the aspenONE Process Engineering application suite. The new agreement extends BP's commitment to AspenTech's engineering solutions for process simulation, design and performance optimization across its Exploration & Production, Refining and Aromatics & Acetyls businesses. The company uses the applications to optimize the design and efficiency of production processes at new plants and in existing facilities worldwide.

"BP intends to continue its use of the AspenTech Engineering software," said Paul Maslin, Technology Vice President at BP. "Over the past few years this technology has delivered significant value in many areas of our business to improve operational efficiency and provide assurance on design of new plant."

The aspenONE Process Engineering suite is an integrated set of applications which enables engineers to enhance the speed and consistency of their simulation, costing and sizing activities, thereby delivering increased productivity and improved design quality. By providing insights into plant and equipment behavior for optimal decision-making, the applications help companies to reduce capital and operating costs, and increase engineering efficiency and quality.

"BP's continuing commitment to our aspenONE engineering solutions is a reflection of the value that these integrated applications can deliver to leading process companies throughout the plant lifecycle," said Manolis Kotzabasakis, Senior Vice President, AspenTech. "Our aspenONE Process Engineering application suite helps companies streamline their engineering workflows and establish best practices across their organization based on consistent data and processes."

License revenue from this transaction was recognized in AspenTech's fiscal quarter ended December 31, 2006.

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Dongfeng Chaoyang Diesel Engine Improves Cross Functional and Departmental Collaboration with PTC® Windchill®

May 29, 2007

[PTC](#), the Product Development Company®, announced that [Dongfeng Chaoyang Diesel Engine Co., Ltd.](#), one of the largest diesel engine manufacturers in China, has optimized and streamlined its product development processes with PTC Windchill solutions. The deployment of Windchill has improved cross-functional and departmental collaboration involving engineers in design, engineering, manufacturing, assembly, as well as users in other corporate departments. By building a complete, consistent and up-to-date repository for Product Development information based on Windchill, Chaoyang Diesel Engine has realized the comprehensive integration of enterprise information, and become the first to realize integration between Windchill and SAP in the automobile industry in China. Chaoyang Diesel uses Windchill in conjunction with its PTC Pro/ENGINEER® implementation.

“Companies in the automobile industry strive to reduce product development time while maximizing productivity management and advancing quality control,” said Mr. Zhao Zhuang, general manager of Dongfeng Chaoyang Diesel Engine. “Given the intense competition in the diesel engine and powertrain market, the PTC Product Development System has become our key competitive advantage to ensure quick response to customer demands and collaboration with partners.”

Chaoyang Diesel Engine has established Windchill as its enterprise-level PDM system platform to satisfy the needs of product structure management, change management and flow control, which provides advanced design methods and management tools to product research and development. In addition, Chaoyang Diesel Engine has established a database of more than 1,300 shared product structures. By reorganizing and optimizing legacy structures, Chaoyang Diesel Engine has solved problems it faced concerning the difference between drawings and parts/assembly in addition, Chaoyang Diesel Engine has enabled the release of product structure data to the production system using an optimized process flow and to provide accurate data release from the PDM to the ERP system. The process has enabled the overall integration of enterprise information in which the product information from technology, production, sales and finance can flow smoothly through the entire enterprise.

“We’re seeing significant improvements in our overall product development processes using PTC Windchill capabilities such as BOM data management,” said Mr. Gao Mingshan, director of the Information Center of Dongfeng Chaoyang Diesel Engine Co., Ltd. “Our product development team mainly depends on the collaboration technologies to deliver their work. With Windchill, we can control the information and manage the development process throughout the lifecycle of a product.”

“The automotive industry is experiencing intense competitive pressures including time to market, the integration of differentiating electronics, and total cost of development,” said Martin Walters, director of automotive product and market strategy, PTC. “Using Windchill in conjunction with Pro/ENGINEER to increase efficiencies around access to accurate data, the automation of workflows and BOM data management helps reduce operational risk inherent in the product development process.”

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Edwards Garment Selects NGC's SQL Series Software for End-to-End Apparel Solution that Includes ERP, PLM and Global Sourcing

23 May 2007

New Generation Computing® ([NGC®](#)) announced that Edwards Garment has selected NGC's SQL Series suite of end-to-end global software solutions. Edwards Garment, a provider of corporate and casual apparel and uniforms, chose NGC after an intense, thorough review of the industry's leading software providers.

The SQL Series products selected by Edwards Garment include NGC's RedHorse® software for apparel ERP, e-PLM for Product Lifecycle Management, and e-SPS® software for global sourcing and visibility. The integrated, web-based suite of solutions will help Edwards Garment improve its customer service,

manage its inventory of more than 80,000 SKUs, and greatly enhance supply chain efficiency and communications.

"Our current ERP system can't keep pace with the rapidly changing demands of our business, so clearly we needed a new solution," said Gary Schultz, president and CEO, Edwards Garment. "We required a system that will allow us to quickly fulfill orders and provide the best level of customer service, and we also needed greater visibility into the entire supply chain, from our internal design teams to our overseas factories."

[Edwards Garment](#) chose NGC over eight other software companies. "NGC's product capabilities were the deciding factor," explained Schultz. "The order entry interface is superior, and NGC's supply chain communications is best in class. In selecting a software vendor, we realized that we would be entering into a long-term relationship, so we took a long, hard look at the companies behind the products. NGC emerged as the winner. We like their web-based product design philosophy, and culturally they're a great fit for Edwards Garment."

"NGC's SQL Series suite of ERP, PLM and global sourcing solutions is demonstrating very strong market momentum, and our worldwide customer base is growing rapidly," said Alan Brooks, president, NGC. "We welcome Edwards Garment as a customer, and we look forward to a good working relationship and a fast time to benefit."

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Engineous Software Expands Academic Program to Over 75 Universities

30 May 2007

[Engineous Software](#) announced the expansion of their university program. The school of Mechanical and Aerospace Engineering at Queen's University Belfast recently joined the ranks of the leading engineering schools like Georgia Institute of Technology, University of Illinois at Urbana-Champaign, Massachusetts Institute of Technology, University of Michigan, Purdue University and University of Texas at Austin already participating in the academic program.

Through the program, universities are able to use Engineous' software for a nominal fee. Academic licenses are fully functioning and are commonly used in student curriculum and graduate research. Engineous also distributes their software under their academic license through Partners for the Advancement of Collaborative Engineering Education (PACE) - a program established through a partnership with GM, EDS, Sun Microsystems and UGS PLM Solutions that supports strategically selected academic institutions worldwide to develop the automotive product lifecycle management (PLM) team of the future.

"We recently decided to expand the use of iSIGHT-FD in our department, and move away from other competitive solutions," said Geoffrey Cunningham, professor at the School of Mechanical & Aerospace Engineering Queen's University Belfast. "Our research is primarily focused in the automotive and

aerospace industries where Engineous is the clear market leader. If students are able to enter the job market with the ability to use industry standard tools like iSIGHT-FD they make themselves more marketable. Engineous' outstanding service and support along with their software gives our students the skills they need to be successful."

"The application of our tools spans a broad range of technical disciplines within the universities," said Jeff Bond, Engineous Software's Lead Trainer and champion of the university program. "Academic users are able to easily integrate their specific tools into a single workflow, and then explore their designs using techniques like optimization, DOE and DFSS techniques."

Universities interested in participating in the program can contact Jeff Bond at 919-677-6700. Participating Academic Institutions are required under the license agreement to provide an outline of their course work and/or thesis research.

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Eurostep to Assist the Development of Next Generation Aero Engine Technology

28 May 2007

The next generation of aero engines will be designed to meet high requirements on reduced fuel consumption and less noise. Volvo Aero is leading a project funded by the Swedish government to enhance the work in this important area of innovation. Eurostep has signed an agreement to participate in the high level project.

The development of the next generation of aero engines requires cooperation between a large number of companies. Eurostep will contribute with the Share-A-space™ software solution for collaboration, which is central for the efficient sharing of information in a virtual organization.

The project is funded by the Swedish government with a budget of 63 MSEK (appr. 6,8 MEUR). This is the first time that the government has funded a demonstrator program in the civil aeronautical industry, and an important step in the development of more environmentally friendly aero engines.

Volvo Aero is taking part in the European initiative called SAGE, "Sustainable And Green Engine", together with for instance Rolls Royce and Snecma. Eurostep and Volvo Aero, together with more than 50 other organizations, are partners in the EC funded project VIVACE. The knowledge developed in VIVACE will be an important building block in the new aero engine project.

Besides Eurostep and Volvo Aero, several Swedish companies and organizations are taking part in the project: A-teknik, Permana Lasersystem AB, Innovatum Teknikpark AB, SICOMP AB, Högskolan Väst and Luleå Tekniska Universitet.

Partners on the international level include major engine manufacturers such as General Electric, Pratt & Whitney, Rolls Royce, Snecma and MTU

About Eurostep

Eurostep delivers software and consulting services for product life-cycle management with a particular focus on the exchange and sharing of data within and between enterprises. Services range from pre-studies to the implementation of customized systems. The flagship product, Share-A-space™,

(<http://www.share-a-space.com/>), is a software that supports collaborative engineering across the life cycle of products. Eurostep has subsidiaries in Sweden, the UK, Finland, and the US and has blue-chip customers in a variety of industries including automotive, aerospace, defence, telecom, building & construction, and process industries.

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Fujitsu Kyushu Network Technologies Selects Cadence SystemVerilog to Ease Designer Adoption

29 May 2007

[Cadence Design Systems, Inc.](#) announced that Fujitsu Kyushu Network Technologies Limited has adopted the Cadence® Incisive® Plan-to-Closure Methodology for SystemVerilog verification in RTL logic design teams. The Cadence methodology was used to verify Fujitsu's latest set of MPEG decoder modules delivering motion block decoding capabilities. It includes a proven multi-language approach to verification reuse and specifically targets logic designers who need "design with verification" capabilities that ease SystemVerilog adoption.

Based on feedback from recent projects, Fujitsu found that adoption of the Plan-to-Closure Methodology was very practical for designers needing advanced verification capabilities and also demonstrated the scalability needed to leverage SystemVerilog-based environments from individual modules to full systems. The ability to perform automated functional coverage analysis and checking speed the verification process and cut the overall verification time by nearly half. The methodology also ensured that the design was of the highest quality before taping out.

"Our logic designers found bugs much earlier with the Cadence SystemVerilog-based methodology," said Takahiro Kobayakawa, senior engineer at Fujitsu Kyushu Network Technologies Limited. "It has offered our designers an easy-to-adopt automation layer that allows much more control and insight into the verification process."

The team also realized other benefits, including easy integration of existing C-based Verilog functions into the SystemVerilog test environment, which allowed efficient reuse of proven verification code. This also saved the team a compile step further compressing the verification cycle.

"We're delighted that our solutions have lowered the adoption bar for designers who need SystemVerilog-based solutions," said Steve Glaser, corporate vice president, marketing, Verification Division at Cadence. "We'll continue to carve out a practical path for logic design teams to implement "design with verification" approaches to ensure high quality throughout the design process, from module to full system-level."

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Leo A Daly Selects Avatech Solutions as National Training Provider

May 29, 2007

[Avatech Solutions, Inc.](#), the nationwide technology experts for design, engineering, and facilities management, announced today a national contract to provide comprehensive training solutions for Leo A Daly, a full-service architecture, planning, engineering and interior design firm. Avatech will provide training across the country for the company's architects and structural, mechanical, electrical, and plumbing engineers.

With more than 1,200 design professionals in 22 offices in 16 cities worldwide, this 'top 100' Engineering News Record firm is standardizing on a building information management (BIM) platform based on the Autodesk Revit family of software. The firm is working to implement new standards based on existing ones in combination with the emerging standards published by the National BIM Standards Group.

"Avatech has already propelled us from traditional drafting systems to the latest in design technology in order to gain the advantages of building information modeling," said Stephen Held, Chief Information Officer at Leo A Daly. "The transition to BIM opened a window for us to create a new set of standards and practices across all disciplines and offices. My goal with this training is to ensure that our professionals learn the technology and the 'Leo A Daly' way at the same time, reducing the impact of training on production time and optimizing productivity. Avatech's ability to provide flexible training using our workflows -- not a 'canned' set of exercises -- combined with their ability to work across disciplines allows us to create a culture that fosters a streamlined set of best practices across disciplines and locations."

Avatech's Autodesk-certified experts will provide flexible process-based training based on real projects to ensure Leo A Daly gets the best return on their training investment. Employees will learn using the same tools and set up as they would use in their regular production environment.

"It is Avatech's goal to eliminate the challenges our clients have when they move towards BIM, whether those challenges are culture changes or process changes," said Bruce White, Vice President of Sales at Avatech. "Incorporating the client's standards, developing a consistent message throughout the organization, and understanding the corporate 'end goal' is critical to a successful BIM implementation. This allows the client to gain a quick return on investment, and most importantly, continue to obtain market share and remain competitive in their industry."

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Pivot International Streamlines Overseas Collaboration with PDMWorks Enterprise

May 29, 2007

[Pivot International](#), a world leader in product design and development engineering services, has deployed [SolidWorks PDMWorks® Enterprise](#) product data management software to streamline its global contract

engineering program. With PDMWorks Enterprise, the Kansas City company is designing better products and anticipating significant time savings by harnessing control of its CAD data.

Pivot International is a domestic product development firm with offshore tooling, procurement, and manufacturing services. It specializes in embedded electronic systems ranging from wireless communication products to handheld imaging systems and custom display applications. The company works concurrently on designs across international boundaries around the clock. The company holds 12,000 parts and assemblies as well as ISO manufacturing quality documents in its PDMWorks Enterprise system.

PDMWorks Enterprise is facilitating Pivot's concurrent design processes across multiple international sites. Prior to deploying PDMWorks Enterprise, Pivot International's design engineers took great pains attempting to ensure design changes carried across all affected parts and assemblies. Too often, however, engineers discovered they needed to check and recheck files to catch errors as parts went to production. Meanwhile, employees in Asia were spending two hours a day transferring large files from Pivot's Kansas City headquarters across slow Internet links.

"We've conquered these obstacles and have dramatically improved our accuracy, and productivity by deploying PDMWorks Enterprise," said Connie Gray, Pivot International's IT manager. "We're enabling our design engineers to always have the right design within reach and ensure revisions carry through all affected assemblies and products. With PDMWorks Enterprise, everyone is always on the same page working from the same files in the same vault. If you're working on a part, it automatically updates across all related designs. And you can't duplicate a part without ample warning."

Instead of requiring time-consuming bulk file transfers, PDMWorks Enterprise automatically replicates design files across every location and transfers only the changes. Pivot International has used PDMWorks Enterprise's open APIs to integrate with its manufacturing resource planning system, which manages part numbers and bills of materials. Better organized part and assembly files enable engineers to save money by incorporating established designs into other product designs. New workflow systems based in PDMWorks Enterprise automate the movement of design files from design engineer through project leader and quality reviews. In the future, Pivot International will extend PDMWorks Enterprise capabilities to their customers so they can review designs through a portal.

"Pivot International has a worldwide design-to-manufacturing structure that relies on efficient sharing of designs across hemispheres," said Rainer Gawlick, SolidWorks vice president of worldwide marketing. "PDMWorks Enterprise enables companies like this, with thousands of designs containing hundreds of parts each, to stay organized, execute with accuracy, and bring better products to market."

Pivot International relies on authorized SolidWorks reseller [FISHER/UNITECH](#) for ongoing software training, implementation, and support.

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Synopsys IC Compiler Used By NEC Electronics for Tapeout of Gigahertz Processor

29 May 2007

[Synopsys, Inc.](#) announced that NEC Electronics Corporation has taped out its latest high-performance processor using Synopsys' IC Compiler next-generation place-and-route solution. Targeted at the high-end computer infrastructure market, this processor uses multiple cores operating at more than a gigahertz each, nearly double the speed of the previous version. IC Compiler, with its Extended Physical Synthesis (XPS) technology, played a critical role in achieving the gigahertz performance while keeping power dissipation in the range of a few microwatts per gate.

"We view IC Compiler's XPS technology as the natural evolution of physical synthesis pioneered by Synopsys," said Shinichi Iwamoto, associate vice president, Microcomputer Operations Unit, NEC Electronics. "We were able to adopt IC Compiler very easily and used it extensively during the prototyping phase of the design. IC Compiler's high accuracy gave our designers critical insight to fine-tune optimizations that helped us achieve our gigahertz performance target."

Used in conjunction with one of the most advanced RTL synthesis solutions, Design Compiler® topographical technology, IC Compiler boosted designer productivity by enabling a highly correlated flow between front-end design and physical implementation. IC Compiler's support for composite current source (CCS) models provided the accuracy necessary for this design by using current waveforms instead of delay and slew values to drive optimizations. Common technology such as cell delay and wire-delay calculation further improved productivity by enabling high correlation with Synopsys' industry standard PrimeTime® timing sign-off solution.

For leading-edge designs, particularly at gigahertz clock rates, power dissipation becomes a dominant constraint. IC Compiler's comprehensive support for leakage and dynamic power optimization allowed NEC Electronics to complete the design at the assigned budget.

"Very tight correlation between synthesis and physical implementation enables customers to minimize design time and achieve their aggressive performance goals," said Antun Domic, senior vice president and general manager, Synopsys Implementation Group. "The combination of IC Compiler and Design Compiler topographical technology is increasingly the foundation for customers' standard design flows, delivering higher productivity and time-to-market benefits."

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The GERG Group Selects VISTAGY's FiberSIM® Software to Engineer Advanced Composites for Motor Sports Industry

29 May 2007

VISTAGY, Inc. announced that [The GERG Group](#), a German manufacturer of products made of advanced composite materials, has selected VISTAGY's FiberSIM® suite of software to improve the engineering process for developing complex composite racing car parts for its customers in the motor

sports and Formula One industries. GERG engineers plan to automate and streamline the entire end-to-end development process for composite products—from conceptual design to manufacturing and quality assurance.

With the recent deployment of FiberSIM software, powered by VISTAGY's EnCapta® technology, GERG is creating complex racing car parts made of advanced composites, including the wings and struts. These parts are comprised of hundreds of plies of composite material, and exhibit very complex curvature that cannot be easily or quickly defined with commercial CAD software systems alone. With FiberSIM operating inside GERG's existing 3D CAD system, engineers are able to avoid the potential risk for errors and delays that would negatively impact stringent delivery deadlines imposed by Formula One.

FiberSIM will enable engineers to capture all non-geometric design detail, such as engineering annotations or materials tables which are critical to the accurate development of a quality product, and quickly associate that data to the CAD model geometry. And it will efficiently share the data across manufacturing and quality teams to verify final products meet all durability, safety and delivery specifications. The firm has initially used FiberSIM to create consistently-accurate flat patterns for composite parts and will automatically generate detailed documentation such as plybooks to streamline manufacturing. FiberSIM will also directly export the flat patterns from the 3D CAD model to automated cutting machines and laser projectors to assist in quickly and accurately laying up composite materials on tool surfaces. GERG plans to quickly expand its use of the software for all future design and manufacturing projects in order to reduce cycle times and costs.

“The GERG Group is growing quickly and is an influential composites manufacturing partner in the Formula One industry, so we needed more sophisticated model-based design software specialized for composites,” said Benno Haerdl, head of composites at The GERG Group. “Our skilled engineers evaluated several solutions, but we feel that FiberSIM is the best and most complete set of tools for developing composite parts. We will also tap into VISTAGY's years of expertise and knowledge in the Formula One industry to streamline our development processes and reduce cycle times – giving us an advantage over the competition.”

For more information about FiberSIM software, please visit the VISTAGY [Web site](#).

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Toshiba Standardizes on Synopsys IC Compiler With Release of Orion V1.0 Design Kit

29 May 2007

[Synopsys, Inc.](#) announced that Toshiba Corporation has completed the release of its Orion V1.0 design kit based on the Synopsys implementation toolset including the IC Compiler place-and-route solution. With this release, IC Compiler is now available to all designers at Toshiba, delivering increased productivity across the board as well as access to unique capabilities such as truly concurrent multi-corner/multi-mode (MCMM) optimization. IC Compiler also gives Toshiba designers a highly automated multi-voltage flow with tight correlation to other Synopsys technologies such as the PrimeTime® SI

sign-off solution and Star-RCXT™ extraction solution. Since its first tapeout with IC Compiler in August 2006, Toshiba has successfully completed multiple designs at 130 and 90 nanometers (nm) and test designs at 65 nm. The very latest design is a high-performance, low-power media processor for mobile applications completed in April 2007.

"Our design teams focus on SoCs for digital consumer applications," said Takashi Yoshimori, technology executive of SoC Design, Semiconductor Company, Toshiba Corporation. "Multi-VDD techniques are essential to developing low-power ICs for these applications. By integrating low-power design automation and sign-off capability, IC Compiler enables us to successfully address these critical requirements by delivering excellent performance, as well as turnaround time improvement."

Toshiba has been an aggressive user of advanced capabilities in IC Compiler. Toshiba's designs often contain multiple operating modes, which benefit from IC Compiler's truly concurrent MCMM optimization that provides increased accuracy and faster time-to-results compared to other solutions relying on sequential approaches. All designs benefit from comprehensive leakage power management in IC Compiler as well as high-performance optimizations driven by IC Compiler's XPS (extended physical synthesis) technology.

The latest chip completed by Toshiba using IC Compiler is a 2-million-instance design comprised of multiple subsystems running at over 300 megahertz (MHz) with nested voltage levels. Achieving the combination of schedule, performance, low power and integrated functionality was an important achievement for Toshiba with this design targeting the hyper-competitive mobile phone market. IC Compiler's integration with the Galaxy™ Design Platform was a notable enabler in the development of this chip. This tight integration provides designers access to the latest technologies such as test compression using DFT MAX, strong link synthesis using Design Compiler® topographical technology, and tight correlation to the PrimeTime static timing analysis (STA) suite.

"We are fortunate to count a leader like Toshiba among the IC Compiler early adopters, helping us prove next-generation technologies on high-performance production designs," said Antun Domic, senior vice president and general manager of Synopsys' Implementation Group. "Toshiba standardizing on IC Compiler is a direct result of this long and fruitful relationship. We look forward to working with Toshiba to enable many more market-leading SoCs."

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Product News

Agilent Technologies' Integrated 3D Electromagnetic Simulation and Advanced Design System EDA Platform Speeds Design, Verification

31 May 2007

Agilent Technologies Inc. announced the integration of its full-wave 3D simulator Electromagnetic Design System (EMDS) into the company's Advanced Design System (ADS) EDA software platform.

The Agilent EMDS-for-ADS speeds up the design and verification process by reducing the steps necessary for accurate design of high-frequency RF/microwave design of modules, RF boards and planar antennas.

“Designers lose a lot of time translating a layout structure into another drawing environment, redefining the layer stacks and dielectric properties, assigning port numbers and reconnecting an S-parameter black box for co-simulation with active elements,” said Bart Van Hecke, product manager with Agilent’s EEs of EDA division. “Integrating our full-wave 3D EM simulator with the ADS circuit and system design environment eliminates the need for layout translation. It provides a 3D EM layout previewer that allows designers to check for drawing parameterization or errors before launching full-wave 3D EM simulations or optimization from the ADS circuit design environment.”

At a price comparable to that of typical circuit simulators, EMDS-for-ADS makes full 3D EM simulation accessible to the entire ADS community of users, rather than just serve as a tool for EM experts.

ADS offers a complete set of front-to-back simulation and layout tools and instrument links for RF and microwave IC design in a single, integrated design flow. The Agilent EMDS-for-ADS allows designers to make informed design decisions and adjustments before physical prototyping begins, eliminating costly design iterations and saving months in a typical product-development cycle. It is part of Agilent EEs of EDA’s overall strategy to address the growing needs of today’s RF and microwave circuit and system designers.

EMDS-for-ADS is especially useful when simulating circuits built with non-homogenous planar dielectrics, such as DRO (dielectric resonator oscillator); cavities under spiral inductors; multi-chip modules and their wire bonds to substrates; circuits mounted in QFN (Quad Flat No Lead) packages; and PIFA (Printed Inverted F Antenna) antennas with their matching circuit elements in cell phones. It is also useful for verifying the results of planar EM simulations before beginning hardware fabrication.

The Agilent EMDS-for-ADS can also be used standalone as a full-wave 3D EM software platform, with its own complete 3D drawing and visualization environment for non-planar structures such as connectors, packages, machined parts and antennas.

To request an evaluation of Agilent’s EMDS-for-ADS, visit <http://www.agilent.com/find/eesof-emds-for-ads-eval>.

Additional information about Agilent’s EMDS-for-ADS and all of Agilent’s EDA software offerings is available at <http://www.agilent.com/find/eesof>.

U.S. Pricing and Availability

The Agilent EMDS-for-ADS is available now, with prices starting at approximately \$18,000.

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AVEVA Launches its New AVEVA Marine Product Portfolio

31 May 2007

AVEVA launched AVEVA Marine at the AVEVA Marine Users' Meeting in Busan, Korea.

AVEVA Marine is a portfolio of integrated design and production products combined with open and flexible lifecycle management solutions.

'It delivers a completely new level of efficiency for design development in shipbuilding and floating offshore projects. AVEVA Marine provides completely new opportunities improving how to do ship design; where to do ship design, who to do ship design with; and how much ship design to do,' stresses Dave Wheeldon, Group Product Development Director.

This is achieved with a full set of products that cover all design disciplines and set new levels of efficiency for creation and modification of design data.

Key developments in AVEVA Marine:

- A set of lifecycle management capabilities that enables all the work processes and information networks to be integrated and managed.

- Data Management as a standard feature of the unified Ship Model Database using proven AVEVA technology.

- Vastly improved outfit modelling with full 3D interface that gives a very large efficiency gain in modelling. Also very powerful and efficient tools for modification using the unique "graphical handle feature".

- Enhanced structural design capabilities which allow the creation, in only a few hours, of the structural model for classification documents.

- Uniform new .NET based GUI for improved productivity in all products.

- Advanced Customisation Tools using Microsoft .NET Technology.

Richard Longdon, CEO of AVEVA comments: 'AVEVA Marine is the result of many years of continual development and accumulated shipbuilding and offshore engineering experience. It is the most advanced marine engineering software in the world.

AVEVA has a responsibility to our customers to make best use of new technologies in our products while at the same time protecting our customers' investments in data and know-how. The new products

within AVEVA Marine deliver very significant innovations and are fully compatible with previous releases.'

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Benefits of Mentor Graphics' Calibre LFD Demonstrated by Infineon-Chartered Collaboration

30 May 2007

[Mentor Graphics Corporation](#) announced it has validated Calibre® LFD (litho-friendly design) results in silicon on 65nm process technology.

A joint paper by Infineon Technologies and Chartered Semiconductor Manufacturing documents the positive results that can be achieved by implementing a lithographic process verification flow using Mentor Graphics' Calibre LFD. Calibre LFD allows a design rule check (DRC) clean cell-based design to be analyzed for manufacturability by simulating the effects of real-world lithographic process variations. It is used early in design creation to identify lithography "hot spots" that can lead to a higher incidence of defects. Calibre LFD uses production process models that provide the level of accuracy required to make modifications with confidence. Chartered has been collaborating with Mentor to provide an LFD™ production kit since March 2006.

The paper entitled "Hardware Verification of Litho-Friendly Design (LFD) Methodologies [6521-20]" was presented in February 2007 at the SPIE Advanced Lithography Symposium and put together by a joint team from Infineon and Chartered (Reinhard März, Kai Peter, Sonja Gröndahl, and Klaus Keiner of Infineon Technologies AG; and Byoung Il Choi, Shyue Fong Quek, Mei Chun Yeo, Nan Shu Chen, and Soo Muay Goh of Chartered).

The paper's conclusions are based on a series of experiments designed to prove the value of implementing LFD model-based physical verification in addition to traditional rule-based design when moving to 65nm and smaller geometries. The experiments included lithography checks for Minimum Width (Pinching), Minimum Space (Bridging), Minimum Area Overlap, and Process Variability Index. Physical measurements on real test wafers processed with controlled dose and focus parameter variations were found to correlate closely with the LFD simulations. The experiments were run on an Infineon standard cell library manufactured in Chartered's Fab 7.

"It was important to prove the value of model-based lithography simulation capability by comparing simulated results to measurements of real test die produced on 65nm process," said Walter Ng, senior director of platform alliances at Chartered. "This work using Infineon's standard cell library demonstrates that a highly accurate LFD flow for our 65nm process can provide substantial benefits for our customers."

The SPIE paper concludes that DRC compliance alone is not sufficient to avoid hot spots that can affect yield at 65nm and below. The researchers also found that most hot spots could be attributed to a small

number of cells. This suggests that significant yield improvements can be obtained by modifying a relatively small number of layout hot spots when these are ranked by severity and yield impact.

“We are very gratified to see Infineon and Chartered leading the way to validate the LFD methodology,” said Joe Sawicki, vice president and general manager, Design to Silicon Division, Mentor Graphics. “We believe the results of this work should be of high interest to other companies who are currently evaluating the benefits of different DFM solutions, and are working on implementing an LFD-based verification flow.”

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Cadence Improves Logic Designer Productivity Through Enhanced Design-With-Verification Flow

29 May 2007

[Cadence Design Systems, Inc.](#) announced enhancements to the "design with verification" component of its Cadence® Logic Design Team Solution, resulting in significant productivity improvements for logic designers. The new capabilities reduce key verification bottlenecks, which have prevented the effective use of assertion-based verification early in the development process.

Logic designers working on assertion-based verification can now realize up to 50 times speedup and capacity improvements in SystemVerilog Assertion and Property Specification Language based formal analysis. They can realize up to 100,000 times performance increase in simulation with a single environment for Cadence Incisive® simulators and Xtreme series systems. This environment is enabled by an expansion of an innovative and unique "hot swap" capability which now allows designers to easily move, within seconds, back and forth between a leading commercial simulation tool and the Incisive Xtreme® III accelerator/emulator. Environment creation and set-up can be accomplished in as little as one tenth of the previous time with a new line of assertion-based verification IP products.

"I brought up the verification environment in just 15 minutes," said Sang Tran, Manager VLSI Technology at Newport Media, Inc. "I can say confidently that Cadence's AHB verification IP saved me several weeks, at a minimum."

An integrated assertion-based verification flow is at the heart of the "design with verification" component, leveraging a common SystemVerilog language front end, common commands, and a unified debug environment that makes the methodology and solution easy to adopt and deploy specifically by logic designers. In this flow, once the logic designers have checked their assertions using Incisive Formal Verifier, the Incisive Design Team Simulator and Xtreme Accelerator/emulator can be used to verify all assertions dynamically. The simulation is driven by either directed tests or an automated SystemVerilog testbench using an implementation of the Cadence Incisive Plan-to-Closure Methodology tailored for logic design teams.

"We are very pleased with the performance gains in the latest release of Incisive Formal Verifier," said Craig Verba, staff engineer at QLogic Corp. "When we make RTL changes and re-run Incisive Formal Verifier on one of our designs, we now have results in 40 minutes rather than three hours, which greatly increases our productivity."

"Logic design teams are asked to create increasingly sophisticated products in shrinking geometries while meeting a growing range of design objectives, such as correct reusable functionality and adequate testability," said Michal Siwinski, product marketing group director at Cadence Design Systems, Inc. "This new verification-based component enables logic designers to move from simple simulations with hand-written tests to a more efficient mix of assertions, acceleration, formal analysis and sophisticated testbenches tuned to the needs of design teams."

The Cadence Logic Design Team Solution

The Cadence Logic Design Team Solution integrates technology from the Cadence Incisive functional verification and Encounter® digital IC design platforms. It represents another deliverable in Cadence's overall segmentation strategy, offering tailored solutions for specific types of engineering teams. The Logic Design Team Solution will be featured at the Design Automation Conference (DAC) in San Diego, California, June 4-8, 2007.

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Chartered and Mentor Graphics Team to Offer Technology Design Kits for 65 and 90 Nanometer Common Platform Technology Processes

31 May 2007

Mentor Graphics Corporation and Chartered Semiconductor Manufacturing have partnered to offer a series of new mixed-signal Technology Design Kits (TDKs) supporting 65- and 90-nanometer (nm) process technology available from Chartered. The kits have been validated and are available now for use with Mentor Graphics ICstudio™ design platform. These open-source design kits enable IC design companies to set up their design environments and immediately focus on mixed-signal design and productivity gains on leading-edge technology from Chartered.

The new TDKs enable the entire analog mixed-signal IC design flow to be tailored for customers using Common Platform technology processes. The kits provide all the foundry data files and models for use with front-end and back-end IC design tools from Mentor Graphics. Designers can work within the unified design cockpit of Mentor's ICstudio design environment to move seamlessly between designs in front-end logical and back-end physical domains.

"Access to optimized design platforms that shorten critical chip development cycles is of paramount importance to foundry customers facing the challenges of today's market. Such challenges make Chartered's open, third-party EDA and IP strategy even more relevant," said Kevin Meyer, vice president of worldwide marketing and platform alliances at Chartered. "By combining Chartered's production-

proven mixed-signal processes with world-class EDA flows from Mentor Graphics, we allow our mutual customers to gain full control and predictability over SoC design and manufacturing to jump-start their designs and plan for aggressive tape-out and production schedules. This is their competitive advantage.”

“We understand the time-to-market pressures facing companies, and realize that their design engineers must focus on product development, rather than setting up IC design environments,” said Jue-Hsien Chern, vice president and general manager, Deep Submicron division at Mentor Graphics. “At Mentor, we’re committed to helping our customers maximize their productivity, especially as they move to more advanced semiconductor technologies in order to stay competitive in their markets. Our design kit collaboration with Chartered as a leading mixed-signal foundry yields a proven design-through-manufacturing flow that saves time and eliminates costly re-spins.”

“We are pleased to see the collaboration between Chartered and Mentor Graphics, as we see tremendous value being created for their end customers like us,” said Godfrey D’Souza, vice president of engineering at Cswitch Corporation. “At Cswitch, we develop configurable solutions that address the performance and time-to-market needs of network, telecom, and storage equipment manufacturers. Gaining collaborative support from our EDA and manufacturing suppliers like Mentor and Chartered will enable us to put more focus on advancing our development technologies, methodologies, and intellectual property base, especially as we move to the more advanced manufacturing process node on 65nm and beyond.”

Starting with 90nm generic and 65nm low-power nodes, Chartered and Mentor Graphics plan to broaden the TDK offerings to encompass 65 and 90nm process variants, as well as extend the development to 45nm. These TDKs tuned to the Common Platform technology processes from Chartered enable chip designers to immediately begin creating, simulating and verifying mixed-signal or analog transistor-level designs targeted for manufacturing at Chartered. Additionally, both companies in support of advanced technologies offered by Chartered are validating them. The design kits specifically include: pre-configured symbols and netlist configuration files for schematic capture, Eldo® analog simulation models for functional verification, process definition files and device generators for schematic-driven physical layout, and pre-validated Calibre® DRC™, Calibre LVS™ and Calibre xRC™ extraction rule files for final physical verification and parasitic extraction prior to chip manufacturing.

Mentor’s new ICstudio design environment contains a unified design platform with a centralized design cockpit that allows seamless navigation throughout the entire analog mixed-signal IC design flow, from schematic capture, simulation and floor planning, to physical layout and final verification.

Availability

The Mentor Graphics Technology Design Kits for 90nm generic and 65nm low-power processes from Chartered are available now. For more information, please visit either <http://www.charteredsemi.com/design/tdks.aspx> or http://www.mentor.com/products/ic_nanometer_design/foundries/tdks.cfm.

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Cimmetry Introduces Integration SDK for End Users and ISV Partners

May 29, 2007

[Cimmetry Systems](#), an Agile Software company and global leader in collaborative visualization solutions, today announced the immediate availability of Cimmetry's Integration Software Development Kit (SDK). The Integration SDK provides AutoVue end users and Cimmetry ISV partners with a comprehensive framework to integrate AutoVue viewing and collaboration capabilities, respectively, into any internally developed or commercial Document Management (DMS), Product Lifecycle Management (PLM) and Enterprise Resource Planning (ERP) system.

Cimmetry's Integration SDK delivers end-users with the tools and documentation necessary for corporate developers to add AutoVue's multi-format, native document viewing, markup and collaboration capabilities to the DMS/PLM/ERP systems they have developed, thereby allowing users to promptly access, view and comment on documents wherever they reside. By doing so, Cimmetry provides organizations with an easy and flexible way to complement the content management capabilities of their in-house systems, and improve existing document review and collaborative processes.

The Integration SDK also allows ISV partners to develop and market integrations of AutoVue with other product offerings, thereby strengthening the capabilities of these systems, and delivering enterprise-class solutions that better serve their customers' needs. ISV Integration partners can undergo Cimmetry's certification program in order to earn the "Cimmetry Certified Integration" label and carry Cimmetry's seal of approval.

Cimmetry's Integration SDK can be purchased directly from Cimmetry Systems. For sales inquiries, contact <mailto:sales@cimmetry.com> or +1-514-735-3219. For additional information about Cimmetry's Integration SDK, visit our Website at <http://www.cimmetry.com/integrations-custom-dms.html>

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Cohesia Modernizes Application Suite to SOA Using Unify's NXJ Developer

May 29, 2007

[Unify Corp.](#), a global provider of application modernization software to enable Service-Oriented Architecture (SOA), today announced that [Cohesia Corporation](#) has modernized its application suite for part specification supply chain management using NXJ Developer.

Cohesia helps large precision-centric manufacturers boost supply chain productivity by managing characteristic identification and precision compliance with First Article Specification requirements. To maintain its leadership role, Cohesia wanted to ensure its customers could easily integrate within strategic IT platforms including ERP, CRM and PLM manufacturing execution systems.

Cohesia performed a comprehensive evaluation of platforms to meet the technical requirements of today and provide a comprehensive development environment for ongoing product enhancements. Their long-time ISV partner, Unify, proved to be the superior choice. With a close working relationship, Unify helped Cohesia complete the application modernization project in just five months.

Cohesia CEO, Jim Kanir, made modernizing the Cohesia product a top company priority and tagged rapid time-to-market as one of the project's goals. "Our customers are continually implementing new process changes to achieve regulatory compliance. Using NXJ Developer, we were able to quickly respond to customer demands for changes in business processes. And, we can now provide customers with the flexibility to modify the application to meet best practices with their organization."

NXJ Developer enables ISV partners to make the transition to SOA through a combination of intuitive visual design, flexible SOA programming, and ease of integration with both Java code and .Net business logic via Web services. Because of its ease of use, developers are highly productive and able to deliver applications in 80 percent less time with NXJ Developer compared to market alternatives. By modernizing applications, ISVs achieve rapid time to market and a competitive edge in delivering their solutions on the latest, standards-based technologies such as Web services and Web 2.0, while adhering to an SOA environment.

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CollabNet® Unleashes First Ever Distributed Software Development Solution Native to the Eclipse™ IDE

30 May 2007

CollabNet announced that it is releasing the first ever development platform which enables distributed software development in a native Eclipse environment. CollabNet Desktop, Eclipse Edition allows software engineers to collaborate globally using CollabNet Enterprise Edition as a backbone to centrally track and manage the lifecycle of all source code and project tasks and assets. As part of this offering, CollabNet is providing a free download of a complete Eclipse perspective for distributed software development, and commercial support subscriptions for its enterprise users.

Leveraging its sponsorship of the Subversion version control tool, CollabNet continues to deliver solutions that bring more collaboration to the software development process. CollabNet Desktop, Eclipse Edition is the first in a series of new free products to be rolled-out in 2007 to extend CollabNet's position as the leading provider of distributed software development solutions. Making free tools available worldwide underscores the company's commitment to distributed organizations that are increasingly driving the growth of software development.

Enterprises and developer communities that run on the CollabNet platform can leverage the integration between CollabNet and Eclipse today. The CollabNet Desktop and related plugins for Eclipse are freely available at <http://eclipse.open.collab.net/> or on the Eclipse website. Access to related discussion forums and other community services are also available on openCollabNet (<http://open.collab.net/>). In addition, CollabNet offers enterprise training, support subscriptions and consulting for the CollabNet Desktop.

“CollabNet makes it faster and easier for developers to use the most advanced development tools available, in powerful synergies, without spending their own time building and configuring disparate tools,” said Jack Reppenning, CTO of CollabNet. “Developers who are more productive improve software quality and customer satisfaction. At the same time, the enhanced flow of more-reliable planning information enables project managers to plan and resource their projects more accurately, adding further customer value.”

Features of the CollabNet Desktop, Eclipse Edition include:

The use of the Eclipse Mylar task-focused UI to update and synchronize project tasks, issues, or artifacts that are tracked and stored in the CollabNet development platform. These tasks are automatically synchronized with the Subversion based source code trees in Eclipse as well as the CollabNet’s repositories for project tasks.

The use of Subclipse to version and synchronize Subversion-based code hosted in the CollabNet environment.

The ability to directly search on openCollabNet, <http://www.open.collab.net/> to find product extensions and community resources valuable to the Eclipse software developer.

Direct integration within Eclipse to CollabNet Enterprise Edition to allow collaboration on project tasks and artifacts throughout the software application life cycle.

A web interface for CollabNet’s CUBiT global virtualization solution which allows Eclipse users to automatically load and build their software application using any industry build and test environment onto a dynamically provisioned physical or virtual server located within a pool of globally accessible servers.

Additional details of the CollabNet Desktop, Eclipse Edition will be announced at the inaugural Eclipse Forum India 2007.

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Delcam Updates Knowledge-Based Dental Machining System

31 May 2007

[Delcam](#) has released a new version of its DentMILL knowledge-based CAM system for machining caps and bridges for the dental industry in ceramics and titanium. The new version includes an updated interface, with new icons specific to dental machining; automatic nesting options so that multiple copings and bridges can be produced within a single block to ensure the most efficient use of material; more flexible creation of support pins and the ability to add sintering pins.

DentMILL is a stand-alone program based on Delcam's PowerMILL CAM system, which is widely acknowledged to be a leader in high-speed and five-axis machining. This allows DentMILL to offer a far wider range of proven machining strategies than is available in other dental CAM programs.

DentMILL is a completely 'open' CAM system that accepts data from any dental design system or scanner capable of exporting data in the STL format used widely within the dental industry. Similarly, it can output machining toolpaths to virtually any CNC machine. Most other dental CAM programs are part of a 'closed' system that can only work with unique data formats or specific machining equipment.

The DentMILL process begins by orienting the model using 'undercut shading' to easily position the part to avoid any undercut regions before machining. The software then identifies the areas around the margin 'prep' line as very fine tolerances are used around this area to ensure high accuracy is maintained to give a perfect fit. Finally, the positions are specified for the fixturing pins to hold the part during machining. Sintering pins can be easily added at this stage also if required.

Once these stages are complete, the next step of manufacturing the model is completely automated. The toolpaths to machine the part are generated in a single button click process, so no prior machining experience is required.

As with all PowerMILL programs, the results are fully checked to prevent gouges or collisions. This high-precision and high-efficiency method of machining ensures high-quality parts can be produced quickly to give a perfect fit for the patient with minimal hand finishing.

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EMC Avamar Software Extend De-Duplication Capabilities to Virtual Machines and NAS Systems

May 21, 2007

[EMC Corporation](#), the world leader in information infrastructure solutions, today announced new data de-duplication capabilities that reduce the time it takes to backup virtual machines by up to 90%. Helping to advance its next-generation backup and recovery product portfolio, EMC® Avamar® software version 3.7 now supports VMware® Consolidated Backup (VCB) for the protection and reduction of backup times within and across virtual machines. Additionally, EMC Avamar has expanded its support to include EMC Celerra® network attached storage (NAS) systems. These Avamar software enhancements coupled with EMC's other new backup and recovery capabilities announced today (see related releases) help form the foundation of a next-generation backup infrastructure.

Avamar backup and recovery software transforms the entire data-protection process using unique global data de-duplication technology that eliminates the unnecessary transmission of redundant backup data that is sent over the network and saved to secondary storage. This helps customers manage the enormous amount of data growth both in core data centers and at remote offices. By de-duplicating at the source and across sites and servers, customers can dramatically shrink the amount of time required for backups, network utilization, and the growth of secondary storage.

VMware Consolidated Backup, a component of VMware Infrastructure 3, the third generation of the industry-leading infrastructure virtualization software suite, simplifies data protection by offloading backup to a centralized server. Offloading backup allows VMware ESX Server, which is also part of

VMware Infrastructure 3, to run more virtual machines by reducing its load, and it eliminates hardware dependencies and enables backup to occur safely even during production hours.

With Avamar's new support of VMware Consolidated Backup, VMware customers have a simplified way of de-duplicating backup data stored in virtual machines, greatly reducing the amount of data backed up and minimizing the impact on host servers. In many cases, customers can significantly reduce the size of backup data for virtual machines, resulting in reduced backup times and storage. Legacy solutions have challenges keeping pace with VMware software, creating problems for daily and weekly data protection. By eliminating redundant, unnecessary workload and data, customers leveraging Avamar can keep pace with virtualization, both for VMware Consolidated Backup and guest-level backups.

Brian Byun, Vice President of Global Partners and Solutions at VMware, said, "VMware delivers a new model for today's data center, and we're excited to have EMC's Avamar software integrated with VMware Consolidated Backup. Organizations continue to look at ways they can improve the efficiency of their backup environments – from the reduction of data moved, backup times and overhead on shared resources. As more customers deploy virtual machines using VMware products, Avamar's de-duplication capabilities enable customers to save time and money while helping their data to be protected."

Brad O'Neill, Analyst with the Taneja Group, said, "As VMware continues to permeate through organizations of all sizes, it creates a greater need for enhanced protection of data residing in virtual servers. EMC Avamar's new support for VMware Consolidated Backup puts EMC in a unique position that allows customers to drastically reduce the amount of data backed up in VMware environments. With this new support, customers can optimally drive their VMware deployments while taking their data protection environments to the next level."

Increased Support for EMC Hardware and Software, Operating Systems and Applications

Avamar also now provides backup support for EMC Celerra NAS systems. File system environments, by their nature, typically have multiple copies of identical files. As a result, this increasing amount of duplicate data places pressure on backup windows. Customers can now use Avamar de-duplication capabilities with Celerra systems, via NDMP backups, to address this challenge and accelerate the full backup of their file systems. In addition, EMC Backup Advisor software has added Avamar as a supported backup application providing advanced monitoring, analysis and troubleshooting capabilities for Avamar environments. These new capabilities provide visibility to Avamar backup job completion, as well as diagnostics to provide better analysis of failed backup jobs. Finally, Avamar has added new operating system and application support for HP-UX and Mac OS platforms as well as Oracle and IBM DB2 databases.

Mark Sorenson, EMC's Senior Vice President of Information Management Software, said, "Reducing the amount of backup data transferred and stored on secondary media helps alter the fundamental economics of disk versus tape as backup media, allowing companies to cost-effectively utilize disk at a cost that is equal to, or less than, tape. Our next generation backup solutions – like EMC Avamar solutions – are enabling customers to take advantage of that paradigm shift and enable disk to become the de facto medium for backup and recovery. With new game-changing technologies like de-duplicated backups for

virtualized environments, EMC continues to raise the bar, helping customers store, protect, optimize and leverage their information infrastructure.”

Availability

EMC Avamar software version 3.7 will be available in June 2007 from EMC and its authorized resellers.

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EMC Bolsters Industry's Broadest Portfolio of Backup, Recovery and Archive Software

May 21, 2007

Today at EMC World, [EMC Corporation](#), the world leader in information infrastructure solutions, announced new and updated software solutions that help customers leverage next generation backup, recovery archive capabilities to scale, manage and protect the information infrastructure. Coupled with the new EMC® Disk Library 6000 Series and EMC Avamar® version 3.7 software (see separate releases), these new offerings expand the industry's broadest portfolio of data protection solutions.

EMC is strengthening its backup, recovery and archive software portfolio with the new EMC HomeBase™ software, which delivers critical bare metal recovery (BMR) functionality. BMR is the restoration of server state configurations, taking place prior to the recovery of operating system, application and user data. In addition, EMC NetWorker® backup and recovery software now supports more languages and has been enhanced with new ease of use features. The new version of EMC RecoverPoint™ replication software features improved capabilities to enable and automate the rapid recovery of critical Microsoft applications. Finally, EMC DiskXtender® for NAS (network attached storage) archiving software features expanded file migration interoperability with support for file servers from Network Appliance and others.

Introducing EMC HomeBase for Bare Metal Recovery

New EMC HomeBase software simplifies server protection by automatically capturing and storing point-in-time profiles of the server configuration required for bare metal recovery. Unlike traditional BMR products that introduce a new workflow requiring the periodic creation of a new system image to ensure recovery, EMC HomeBase seamlessly integrates into the backup and recovery workflow and leverages existing investments within the backup infrastructure to reduce complexity and ensure fast and repeatable product server configuration recoveries.

At the time of recovery, HomeBase software applies a source server's profile to the new target server hardware, eliminating the time-consuming and costly effort of having to re-configure systems and applications in the case of hardware failure or disaster. In addition, HomeBase software provides complementary capabilities to NetWorker, Avamar and VMware® software.

EMC NetWorker – Internationalization and Ease of Use Enhancements

With support of more languages, EMC NetWorker software now offers improved management and support capabilities for customers using NetWorker software in multiple locales. Additionally, new ease of use features in NetWorker software include centralized software distribution, enhanced GUI flexibility and an improved UNIX recovery interface. Finally, EMC is releasing a new NetWorker Module for Oracle, providing new wizards to improve recovery, new application staging features and support for encryption.

EMC RecoverPoint – New Integration with Microsoft VSS and EMC Replication Manager

EMC RecoverPoint software provides heterogeneous data protection and recovery, delivered via a split-path architecture. This enables customers to run the solution on an out-of-band appliance with either a host agent or an intelligent switch located in the network (in-band). It provides Continuous Remote Replication (CRR) or local Continuous Data Protection (CDP), which safeguards information to any point in time in the event of failures or data corruption caused by environmental, hardware, software, and/or human error.

The new version of RecoverPoint software offers support for Microsoft Volume Shadow Copy Service (VSS), which improves the automation and management of backup and restore of critical applications like Microsoft Exchange Server and Microsoft SQL Server. In addition, RecoverPoint software is now also integrated with EMC Replication Manager software, which enables users to manage RecoverPoint CDP-protected applications and other supported EMC replication technologies via a single console.

Duane Swizer, Vice President and Director of Technical Operations at First Independent, a privately-held diversified financial company with locations in Oregon and Washington, said, “We are zealous about making sure our products and services align with our clients’ changing needs. To help us achieve our mission and maintain our core values, we leverage EMC RecoverPoint to replicate critical application data remotely from one EMC CLARiiON system to another. With the new support for Microsoft’s Volume Shadow Copy Service (VSS), we are looking to further expand our information protection capabilities in enhancing recovery point objectives of Microsoft Exchange data. EMC provides us with the peace of mind that we can securely and affordably protect our critical data and application – something we are committed to doing for our own clients.”

EMC DiskXtender for NAS – Support for More File Servers

EMC DiskXtender for NAS software is automated file archiving software that migrates inactive files from primary NAS to secondary tiers of storage. The new version of the DiskXtender for NAS software adds support for filers from Network Appliance along with previously supported EMC Celerra® systems, enabling inactive file migration and long term data retention to platforms such as EMC Centera® content-addressed storage systems, EMC CLARiiON® networked storage or other storage archives. Acting transparently, the software frees up space on primary storage, improves application performance and reduces backup data sets while speeding recovery for Windows, UNIX and Linux NAS environments.

David Donatelli, EMC's Executive Vice President of Storage Product Operations, said, "EMC is changing the way customers look at backup and recovery. Customers are constantly telling us that they want more efficient ways to backup the avalanche of data that they are facing, and recover it as close to 'instantly' as possible. EMC has developed the broadest set of backup, recovery and archiving software in the industry to help customers meet these objectives. We are expanding our market leading capabilities even further to include bare metal recovery and continuous data protection for Microsoft applications. Combined with additional platform support and ease-of-use features, EMC is delivering the innovative solutions that help customers more rapidly, efficiently and cost-effectively protect their information infrastructures."

Availability

EMC RecoverPoint software is available immediately from EMC and its authorized resellers. EMC HomeBase software is available immediately from EMC. EMC NetWorker is scheduled to be available in June 2007 from EMC and its authorized resellers. EMC DiskXtender for NAS is scheduled to be available on May 30, 2007 from EMC and its authorized resellers.

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EMC Empowers Content Management Partners with Surgient Virtual Labs

May 29, 2007

[Surgient](#), the leader in Virtual Lab Management Applications for automating software demo, test and training labs, today announced that EMC Corporation has enhanced their content management software partner sales capabilities by using the Surgient Virtual Demo Lab Management System (VDMS). By empowering its partners with support for on- demand, reliable and complex software demos, EMC has reduced demo costs, demo configuration and deployment time. As a result, EMC partners can quickly and easily demonstrate the value of their combined solutions to prospective customers—accelerating their sales cycles and improving customer experience.

Before Surgient VDMS, EMC content management software partner demo capabilities were limited, requiring partners to use an isolated laptop with no ability to integrate with third-party products. In addition, these demos were often costly and time-consuming to develop with limited customization options. This made it very difficult and expensive for a partner to demonstrate its value-add to a prospective customer.

"Surgient Virtual Demo Lab Management System provides EMC and its content management software partners with a scalable solution for delivering complex, consistent software demos anywhere at anytime," said Julie Cullivan, vice president of worldwide field operations, EMC Content Management and Archiving Software. "With the ability to provide reliable, high-performance, customized software demonstrations on demand, VDMS has helped our partners accelerate sales cycles and enabled our sales engineers to reduce travel time and partner support. By spending less time configuring manual software demos, our partners and sales engineers can focus on selling higher value solutions."

With Surgient VDMS, EMC partners can demonstrate a full complement of products and showcase integration between their own products and EMC's information infrastructure solutions. Demos can be delivered on a scheduled or on-demand basis from a centralized online system, improving flexibility and scalability. For scheduled demos, VDMS automatically deploys and configures a dedicated software demo environment for the required time period. For on-demand demos, VDMS enables partners to select a demo environment from a pool of demonstrations in just minutes via a Web browser.

"With Surgient Virtual Demo Lab Management System, companies like EMC help their partners easily demonstrate how their technologies interact with and complement their products, providing a better solution to the customer," said Bill Daniel, Surgient president and CEO. "Surgient VDMS has enabled EMC's content management software partners to focus on selling, as opposed to cumbersome and time consuming software downloads and installations. With multiple uses across any organization, Surgient virtual lab management technology is enabling companies to increase productivity, drive sales and reduce operating costs."

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EMC Introduces the World's Largest Open Systems Virtual Tape Library

May 21, 2007

[EMC Corporation](#), the world leader in information infrastructure solutions, today introduced a new class of systems to its industry-leading EMC® Disk Library family of easy-to-use, secure, intelligent disk-based backup and recovery solutions. Helping customers to build a more scalable, cost-effective information infrastructure, the new EMC Disk Library 6000 Series is the industry's largest open systems virtual tape library (VTL), scaling to 1.8 petabytes of usable compressed capacity in a single system, and can backup more than 11 terabytes of data per hour. The new EMC Disk Library 6000 Series is based on the EMC Symmetrix® DMX-3 platform and provides the highest levels of performance, scalability and software functionality to meet the backup requirements of high-end information infrastructures.

The expanded capacity allows customers to lower their cost of ownership and consolidate multiple smaller VTLs into a single EMC DL6000 system. Consolidating multiple backup appliances can also result in significant environmental savings, with EMC studies showing savings of up to 30% in annual power and cooling costs compared to multiple smaller VTL systems. The new EMC Disk Library DL6100 and DL6300 models also offer hardware compression, which enables customers to maximize capacity utilization without sacrificing performance or requiring additional management tasks. In addition, EMC will also offer data de-duplication capabilities across the entire EMC Disk Library family beginning in early 2008.

EMC pioneered the open systems disk library market when it introduced the EMC Disk Library in April 2004 and today is the leading provider of open systems virtual tape solutions. More than 110 petabytes of EMC Disk Library capacity have been deployed through the end of the first quarter of 2007. The EMC Disk Library line supports more than three million configuration combinations – more than any other open virtual tape solution on the market.

David Donatelli, EMC's Executive Vice President, Storage Product Operations, said, "The EMC Disk Library has fast become the 'VTL of choice' in the industry, largely on the basis of features, performance and economics. The EMC DL6000 Series significantly expands these benefits for high-end customers by taking advantage of the flexibility, scalability and cost-effectiveness of the market leading Symmetrix DMX-3 storage system. Using high capacity, low-cost, fibre channel disk drives, the new EMC DL6000 Series is a more cost-effective, higher performing and more flexible alternative to purchasing multiple smaller VTLs or slower, large tape systems. With 24/7 information availability being the norm rather than the exception, the DL 6000 Series provides customers with higher levels of data availability and faster, greatly simplified backup and recovery."

High-end Performance for the Most Demanding Requirements

The EMC DL6100 supports up to 1,440 disk drives in a single system and offers RAID 5 protection with a maximum useable uncompressed capacity of 615 terabytes and up to 1.845 petabytes of compressed capacity. The EMC DL6300 supports up to 2,400 disk drives in a single system and offers RAID 1 protection with a maximum uncompressed capacity of 584 terabytes, and up to 1.752 petabytes of compressed capacity.

Unmatched Software Functionality for Management, Ease-of-Use and Protection

EMC has developed unique software functionality specifically for the EMC Disk Library family. It is the only disk library solution with consolidated media management that gives customers control of their entire tape pool through a single application interface and eliminates many time-consuming steps common with traditional VTL deployments. The EMC Disk Library also features Active Engine Failover, delivering even more reliability for demanding environments. In the event of one processor engine failing, operations will automatically failover to the second (active) processor engine so that the disk library system is able to continue servicing the backup server/application.

Heidi Biggar, Storage Analyst, Enterprise Strategy Group, said, "With EMC's new high capacity DL6000 series, customers can now consolidate the management of multiple VTLs into one, and with it, enjoy centralized and simplified management, along with improvements in power and cooling costs. The EMC DL6100 and DL6300 systems are ideal for organizations that back up a significant percentage of their production data to tape, can't meet service level agreements for restores from tape, or have multiple virtual tape libraries in their data center."

Availability

The EMC Disk Library 6000 Series is scheduled to be available from EMC and its partners in June 2007.

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EMC Unveils Next Generation Backup and Recovery Capabilities at EMC World

May 21, 2007

CIMdata PLM Industry Summary

[EMC Corporation](#), the world leader in information infrastructure solutions, today further extended the broadest portfolio of backup and recovery technology in the industry with the announcement of the world's largest single system virtual tape library (VTL), the latest versions of its industry-leading data de-duplication, replication and backup software, and new bare metal recovery capabilities.

Helping customer's to build tomorrow's information infrastructure, EMC today announced:

The industry's largest and fastest open systems virtual tape library. The EMC® Disk Library (DL) 6000 series can store up to 1.8 petabytes of information in a single appliance and can backup more than 11 terabytes of data per hour. Based on the EMC® Symmetrix® DMX-3 storage platform, the new EMC DL6000 models provide the highest levels of scalability, performance and software capabilities in the industry. The EMC Disk Library family is the leading open systems virtual tape solution in the industry.

The latest version of EMC Avamar® data de-duplication software featuring integration with VMware® technology. Avamar software version 3.7 now supports VMware Consolidated Backup (VCB) software, reducing backup times of virtual machines by up to 90%. Additionally, Avamar software now includes expanded file server support, enabling faster backups of EMC Celerra® network-attached storage (NAS) systems.

EMC HomeBase™, new software that provides bare metal recovery of servers. HomeBase software simplifies server management through highly automated recovery of server capabilities in the event of a hardware failure or disaster. This new software provides greater protection using a unique feature that captures a server's status more frequently to provide faster recoveries. HomeBase is complementary to Avamar, VMware and EMC NetWorker® backup and recovery software.

New features of EMC NetWorker software, including new ease-of-use features and support of additional languages, improving management capabilities for multi-national customers.

A new version of the award-winning EMC RecoverPoint™ software for Continuous Remote Replication (CRR) and local Continuous Data Protection (CDP). The latest version of RecoverPoint software includes support for Microsoft Volume Shadow Copy Service (VSS), which improves automation and management of backups and restores for applications like Microsoft Exchange Server and Microsoft SQL Server. In addition, EMC has integrated RecoverPoint and EMC Replication Manager software to centralize management of RecoverPoint local CDP protection in a Microsoft Windows environment.

Charles King, Principal Analyst at Pund-IT, Inc. said, "Customers today are generating volumes of data that quickly overwhelm traditional backup architectures. There's simply not enough time for them to safely protect that information. EMC has been at the forefront of providing customers the tools and technologies necessary to redefine their essential backup, restore and archiving processes. Whether it's through the performance advantages of disk-based backup versus tape or innovative continuous data

protection and de-duplication capabilities, EMC continues to successfully innovate and deliver leading solutions that address this major customer pain point."

David Donatelli, EMC's Executive Vice President of Storage Product Operations, said, "Backup has been a long-term challenge for customers and is one issue we hear about consistently, regardless of their size, industry or budget. It is even more challenging for them in the face of 60% annual information growth. The amount of information customers have to regularly back up can be up to five times that when you factor in duplicate copies. Customers are struggling to meet recovery point and recovery time objectives while making the backup process as efficient as possible."

Donatelli, added, "EMC has had great market success and has led the way with innovative new technologies that help customers address these challenges. We're expanding the industry's broadest portfolio of backup and recovery solutions even more with new cost-effective, high-end disk library systems and new versions of our leading software that will help customers protect and recover their information faster, easier and more reliably than ever before."

Availability

The EMC DL6000 series will be available beginning in June 2007 from EMC. EMC Avamar software version 3.7 will be available in June 2007 from EMC and its authorized resellers. EMC RecoverPoint software is scheduled to be available on May 30, 2007 from EMC and its authorized resellers. EMC HomeBase software is available immediately from EMC. EMC NetWorker is scheduled to be available in June 2007 from EMC and its authorized resellers. Additional details on each product can be found at <http://www.emc.com/>

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ENGINEERING.com Announces New Release of its Web-Based PLM Solution

30 May 2007

ENGINEERING.com Inc. announced the release of the latest enhancement package for its web-based PLM Solution, Collaboration Suite. This latest release lets users track and report on the many product variables that make each product unique. These features in turn drive enhanced executive reporting.

Collaboration Suite is a team-based collaboration environment for bringing products to market faster. Complete with online document management, project management, CAD model viewing, web-conferencing and supplier management, ENGINEERING.com Collaboration Suite helps companies manage their new and custom product launches across distributed design and manufacturing teams.

David Kinsel, Engineering Team Leader for the Calphalon division of Newell Rubbermaid, described how his team is using these new features, "The enhanced data section captures key information we use to manage our new product development efforts. This new functionality is flexible and really easy to set up

and organize. Project managers can now run reports that span all of their projects and capture what is needed for status update meetings."

John Hayes, President of ENGINEERING.com adds, "Many of our customers are managing hundreds of products from the quotation stage through to manufacturing. With these new tracking features, engineering managers can now quickly sort through the long list of projects on their desktop to prioritize and action critical tasks."

Collaboration Suite is available from ENGINEERING.com as a hosted solution. Customers, suppliers and consultants need only have Internet access to participate in their product development projects. The hosted environment has proven to be very quick to deploy and highly flexible for licensing. New enhancements such as this release are automatically available to all users without any action required on the part of customers.

To Learn More about Collaboration Suite, please visit <http://collaboration.engineering.com/>.

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Fishbowl Solutions® Launches linkTools™ for Windchill® PDMLink™ & Pro/INTRALINK® 8.0

25 May 2007

Fishbowl Solutions announced the launch of linkTools™ for Windchill® PDMLink™. The linkTools Suite automates manual tasks around PDMLink – helping companies recognize a rapid return on investment from the solution.

Since 1999, Fishbowl Solutions has been assisting companies using the PTC Pro|ENGINEER® and Pro/INTRALINK® solutions to maximize their return on investment through the eTools™ Suite of products. eTools automate manual and tedious tasks such as creating downstream deliverables upon reaching designated milestones or bulk loading data into Pro/INTRALINK. Building on the success of its eTools for Pro/INTRALINK, Fishbowl Solutions' new linkTools Suite promises to address similar automation challenges around Windchill based solutions like PDMLink and Pro/INTRALINK 8.0.

According to Rick Passolt, Business Development Manager for Fishbowl Solutions, "Eliminating non-value added activities is a key factor for US manufacturers to remain competitive. Our linkTools help companies implement PDMLink faster and also ensure that engineers are spending more of their time in value added activity instead of being engaged in manual and tedious tasks."

Fishbowl Solutions intends to expand on its linkTools product family. The first release includes:

linkAccess™ Interactive – Dynamically generates deliverables like DXF, PDF, IGES and STEP.

linkAccess™ Trigger – Automatically generates deliverables at designated milestones from PDMLink without user interaction.

linkLoader™ – Automatically loads data into PDMLink from a file system.

To learn more about linkTools for PDMLink please visit: <http://www.fishbowl solutions.com/linkTools>

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HP Enhances Service Management Offerings to Help Customers Take Advantage of ITIL v3

May 29, 2007

[HP](#) announced it has enhanced its service management portfolio to help IT organizations put into operation the capabilities of the recently released IT infrastructure library (ITIL) service management practices, known as ITIL v3.

ITIL v3 is a framework of global IT management best practices intended to help facilitate the delivery of high-quality IT services across the complete service management lifecycle. In conjunction with this framework, the refreshed HP Service Management portfolio helps customers align IT operations, applications and strategy to achieve better governance, compliance and efficiency across the IT environment and ultimately, to demonstrate more IT value to the business.

“With the creation of ITIL v3, we have shifted from IT process-centric practices (ITIL v2) to a more general, overarching service-centric approach across service strategy, design and transition so enterprises can be more effective and efficient at synchronizing IT strategy with business needs,” said Sharon Taylor, chief architect of ITIL v3.

As a pioneer in service management with more than 15 years of experience, HP has been a leading driver in the refresh of the ITIL v3. One of the five core books of the library, titled “Service Operation,” was authored by HP consultants David Cannon and David Wheeldon. HP’s Jeroen Bronkhorst developed the ITIL v3 process maps, while Stuart Rance and Ashley Hanna worked on the ITIL v3 glossary.

“HP provides a comprehensive set of industry best practices with their Service Management portfolio that have helped us remain strategic throughout the process of implementing our service management roadmap,” said Sherri Young, director, Service Management, Data Return. “HP’s continued support of ITIL and leadership in helping shape ITIL v3 help us maintain our role as a best-in-class service provider for our customers.”

The HP Service Management portfolio combines education, consulting, support and software in a set of six solutions that address all aspects of service management, including: Demand and Portfolio Management, Business Service Management, Asset and IT Financial Management, Consolidated Service Desk, Change and Configuration Management, and Infrastructure Management.

Education services, consulting services and new capabilities for the HP Business Technology Optimization software suite are the latest editions to HP's portfolio.

"HP is the most experienced partner in the industry to help customers move from a tactical to a strategic approach to aligning IT with the business," said Mike Rigodanzo, senior vice president, Technology Services, HP Services. "Our service management offerings can help customers deliver consistent and predictable service levels to the lines of business while lowering costs to free investment for innovation."

Education services

HP is one of the first vendors to provide ITIL v3 certification and simulation courses that educate IT professionals on the differences between v2 and v3. The courses become available for purchase May 30.

Two workshops featuring hands-on simulations based on high-performance motor racing provide an overview of ITIL v3 and its business benefits (Service Management workshop) and the critical elements to successful portfolio and project management and how they impact business results (Project Management workshop).

In addition, HP Business Analysis and Project Management Training Services train IT professionals in best practices to ensure successful management of the design, build, test and roll out of projects.

Consulting services

To foster continual service improvement, HP helps customers establish a practical, flexible and incremental approach for deploying service management across an organization based on service management maturity level, business priorities, budgets and tolerance for risk.

New HP ITSM Assessment Services and HP Improvement Services address a critical component for the service management lifecycle by analyzing ongoing processes in comparison to ITIL v3 best practices. The Assessment Services provide a benchmark for process improvement recommendations, while the Improvement Services, which now can be offered as a standalone service no longer requiring a contract, deliver a tailored improvement plan.

HP Business Technology Optimization software for optimized business outcomes

HP's broad software offerings for service management, project and portfolio management, change and configuration management, and quality management have been tightly aligned with the new ITIL v3 concepts of service strategy, design and transition, as well as the specific functionality mandated by ITIL books.

To speed change while minimizing business risks, enterprises need to transition from managing devices to managing business services. HP's approach to business service configuration management includes three elements: discovery and dependency mapping of all the components that comprise a business

service in the configuration management database (CMDB); technology to assess and mitigate the impact of change on a business service; and broad automation of the deployment of the change across the breadth of components that make up the business service. HP Software provides the broad capabilities that are both consistent with the new direction of ITIL v3 and meet these diverse needs.

At the heart of HP's approach to ITIL v3 is the HP Universal CMDB, which in a recent survey conducted by mValent was the most widely preferred choice of CMDB in the industry.

More information on the HP Service Management portfolio is available at <http://www.hp.com/go/servicemanagement>.

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LEDAS releases the fourth commercial version of its variational geometric solver LGS 3D.

May 29, 2007

[LEDAS Ltd.](#), an independent software provider of computational components for PLM and ERP, releases next version of its 3D geometric solver.

The new 1.3 release is much more rapid than previous versions of LGS 3D. Due to efficient optimization of the core computational techniques all user functions of LGS 3D like Update or Move Under Constraints are executed twice as fast being measured on a large industrial test base of more than three thousand cases. Enforced by a number of new heuristics LGS 3D 1.3 behavior is much more natural from user point of view. All these advantages coupled with affordable pricing make LGS 3D the best deal for CAD/CAM/CAE parameterization.

About LGS 3D

LGS 3D is a cross-platform software. It is set of libraries that runs under all Windows, Linux, *BSD, AIX and other OS. Being written in C++, LGS has a C-based API that allows integrating it into a broad range of software applications (even written not in C/C++).

A sample test application for LGS 3D called Legen'd 3D is also available within the Evaluation version of LGS 3D. It is created with the Open CASCADE open-source framework. The Lege'n'd 3D application can be used to test the entire functionality of the LGS 3D without integrating the solver into other software packages. A set of representative examples for Lege'n'd 3D is also supplied. All advantages of the new LGS 3D version are accompanied by improvement of usability of Lege'n'd, by providing more useful information in case of incorrect usage of LGS 3D API functions, and a number of minor enhancements.

LGS 3D supports creation and modification of the geometric models by means of (explicit or implicit) constraints. Typical geometric objects are points, lines, circles, planes, cylinders, spheres, arbitrary

curves, surfaces and swept surfaces. Objects can be fixed in an absolute coordinate system or with respect to each other (last feature is provided by so-called rigid sets of objects). Set of geometric constraints includes logical constraints between geometric entities (like coincidence, parallelism, tangency, etc.), dimensional constraints (that specify the required values for given distances, angles or radii). LGS 3D moves and rotates objects to positions where all constraints are satisfied trying to perform minimal possible transformations of initial configuration. Other functions are usual for CAD - 'move under constraints' and diagnostics of over- and under-defined parts of a model. The 1.3 version supports advanced features like engineering equations and help points.

LGS 3D is based on the LEDAS' state-of-the-art computational engine and provides affordable solution for those who need a strong variational and constraint-based functionality in CAD, modeling, or engineering software. Through the scalable architecture of LGS, variational and parametric techniques have become available in a wide range of the products including desktop CAD, and general 3D modeling tools. High-end CAD and CAM systems will also benefit from integration with LGS since it provides a solid foundation for variational modeling, knowledge-based engineering, constraint-based geometry, and mechanical optimizations.

Being a LGS 2D successor of, LGS 3D can be used as a self-supporting component, or just jointly with 2D version. LEDAS three-dimensional geometric solver significantly expands application possibilities to apply computational engine. It supports creation and modification of the 3D geometric models. Both 2D and 3D versions have similar API, the set of three-dimensional objects and constraints intersect with the analogous set in two dimensional case, therefore, providing a complete parametric solution for all aspects of CAD/CAM system functionality – from 2D sketching to 3D modeling, kinematics simulation, assembly design and analysis.

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Magma Announces Simulation Option for Knights Camelot CAD Navigation Software

30 May 2007

[Magma® Design Automation Inc.](#) announced a new option for its industry-standard Knights Camelot™ CAD navigation software that makes finding the location of a device short faster than previously possible, a key time-to-market advantage in failure analysis.

The Passive Voltage Contrast (PVC) Checker simulation option allows failure analysis (FA) engineers to quickly and accurately validate the integrity of a circuit's conductivity by simulating voltage contrast and comparing the simulated result with actual scanning electron microscope (SEM)-based measurements. By accurately simulating the SEM's voltage-contrast measurements before they actually become available, engineers can determine where in a device a short may be occurring due to improperly charging connections much faster than previously possible.

Following SEM inspection, National Semiconductor used PVC Checker for layer-by-layer deprocessing of an analog device to determine the physical location of circuit anomaly. Because PVC Checker

automatically traced and mapped these locations using an existing processed layout database, no additional layout data processing was required.

“PVC Checker complements the industry’s well-known, powerful technique utilizing a SEM to identify anomalous circuit areas on an IC,” said William Ng, member of the technical staff at National Semiconductor. “We were able to use PVC Checker to quickly and accurately single out irregular device connections or terminations that were adversely affecting performance. This technique saved us a considerable amount of time and energy.”

"We are very pleased that National Semiconductor was able to use PVC Checker to determine the source of device circuit failure while saving valuable time, thus improving time to market," said Ankush Oberai, vice president of Magma’s Fab Analysis Business Unit. “With the addition of PVC Checker to our portfolio of Camelot options, we continue a long tradition of providing superior failure analysis and device debug software solutions to our worldwide customer base.”

In addition to PVC Checker, the new Camelot Online Trace feature provides flexibility while simplifying the voltage-contrast validation process. Engineers can get more detailed information for identifying vias or metal traces that may be affecting circuit connectivity. They have the option to search for these objects over an entire area or layer of a device or on a one-by-one basis.

“In physical analysis, SEM inspection can help FA engineers identify the via or metal layer which connects to the source or drain of a PMOS or NMOS structure, and also the poly-gate and floating nodes,” Oberai said. “But since a SEM only provides an image on one layer, it’s hard to judge which connection has failed. PVC Checker enables the user to expand investigation by simulating voltage contrast over multiple layers of a device. In conjunction with Camelot, multiple SEM and optical-based images can then be overlaid to voltage-contrast circuitry for additional product debug use. This capability not only saves time in debugging, but also offers flexibility and simplifies voltage-contrast inspection.”

About Knights Camelot

Magma’s Knights Camelot software system is the next-generation CAD navigation standard for failure analysis, design-debug and low yield analysis. Camelot optimizes the equipment and personnel resources of design and semiconductor failure analysis (FA) labs by providing computer interfaces and navigation capabilities for more than 50 different types of analysis and test equipment. Its application tools, features, options and networking capability provide a complete, integrated system for fast and efficient investigation and resolution of inspection, test and analysis jobs. In addition, Camelot enables closer collaboration between product and design groups with FA labs, thus dramatically improving time to yield and market.

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MSC.Software Partners With AlphaSTAR to Bring Leading Composite Failure Analysis Capabilities to MD Nastran

May 29, 2007

[MSC.Software Corp.](#), the global provider of enterprise simulation solutions and services, today announced that it has expanded its partnership with AlphaSTAR Corporation (ASC) a leading provider of advanced engineering analysis services and of specialized software for the analysis of complex engineering material systems. Through this agreement, MSC.Software will enable select capabilities from ASC's flagship product, GENOA, to work as an optional module in the next release of MSC.Software's leading multidiscipline simulation software—MD Nastran. Manufacturers in the aerospace and automotive industries will now have access to a single, integrated solution that can improve the accuracy of mission critical progressive failure analysis, thereby enhancing quality and safety of next generation products.

"Gaining optimal performance of composite materials allows our customers to lead the way in breakthrough products, especially in aerospace and automotive applications," said Bill Weyand, chief executive officer, MSC.Software. "MSC.Software continues to utilize leading technologies to provide our customers with a best-in-class simulation software that can enable them to speed simulation efforts while simultaneously enhancing overall analysis capabilities. The combination of ASC's GENOA and MD Nastran, enables unmatched composite analysis capabilities to deliver industry verified, accurate, reliable and speedy failure and life prediction software."

Composites are man-made materials that tend to be very lightweight and strong, making them a desirable material for high-performance products in aerospace, automotive and other industries. The complex nature of composite materials requires specialized composite analysis tools that can predict composite part performance and failure. ASC's micro mechanical composite failure analysis technology coupled with MD Nastran's finite element analysis enables simulations to track damage and crack growth progressively—Progressive Failure Analysis (PFA)—in polymeric composites, ceramics, metals, and sandwich structures.

"Composite materials are driving exciting design innovations; however, progressive failure analysis to identify the propagation of a crack or fatigue analysis for new materials is critical to ensuring product success into market," said Kay Matin, President for AlphaSTAR. "By working with MSC.Software, we are able to drive best-practices in composite analysis through our GENOA software and conduct composite modeling and simulation in a truly multidiscipline environment to deliver optimal performance and analytical capabilities to engineers globally."

GENOA was developed in collaboration with NASA and extensively verified by aerospace, automobile, and infrastructure industries. It is a comprehensive durability and damage tolerance (D&DT), and life prediction software for assessing performance of composite materials and structures. GENOA's advanced material modeling capability makes it possible to evaluate failure at the micro-scale of the material. The software computes structural damage resulting from application of static and dynamic loads, fatigue loads, and high and low velocity impact. Through this optional module, tight integrated with MD Nastran, engineers will be able to conduct failure analysis at a faster speed and with more accuracy.

MD Nastran is the only multidiscipline simulation software that enables different mathematical analysis models to interact so that the effects of one environment can be seamlessly applied to another. By utilizing industry leading analysis solutions such as ASC's GENOA, the company offers its customers a single software solution to create accurate simulations for new product designs.

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Renesas and VaST Strike Global Partnership Addressing Automotive Software Development

29 May 2007

VaST Systems announced a global partnership with the Automotive Business Unit of Renesas Technology Corporation to develop and deliver virtual prototypes of Renesas' high-performance processor platforms using VaST technology. The platforms will be used by mutual customers worldwide for software development, architectural analysis, and system verification.

Renesas' past experience has shown that employing VaST virtual prototypes reduce schedule, shorten software development time, and enable improvements in product quality. The partnership initially focuses on enhancements to SH2A and R32C based platforms, with customer releases available in October of 2007. Future platforms will be announced later.

"Modern automobiles are increasingly controlled electronically and their design requires innovative development processes that employ virtual platforms," said Tsotomu Miki, head of the Renesas Automotive Business Unit. "Renesas has responded to these demands as a microcomputer manufacturer and VaST has led in the development of virtual prototyping technology and best practices in the application of this technology. Together we can give our customers competitive advantages in performance, quality, schedule, and cost by using our joint solutions."

"VaST technology and its unique combination of speed and accuracy are particularly well suited in the demanding automotive markets. We expect this collaboration to add to the significant momentum in the adoption of Renesas' high performance products," said Alain Labat, president and CEO of VaST.

About VaST

VaST provides tools and models for embedded system design. Users create a cycle-accurate software model of a system that operates at near real-time speeds under actual software loads. VaST's solutions are OSCI SystemC-compliant and are used for software development, architecture analysis and system verification. VaST solutions improve time to market and quality while reducing development costs and risk.

Current customers include worldwide leaders in semiconductors, automotive electronics, wireless devices, and consumer electronics. VaST KK and Gaia System Solutions sell and support VaST's

solutions in Japan. VaST is headquartered in Sunnyvale, California with sales and support offices worldwide. For more information, visit <http://www.vastsystems.com/>.

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Seemage and Axemble Partner to Improve Product Documentation in Small and Medium Manufacturers

30 May 2007

Seemage SA (<http://www.seemage.com/>) announced that it has appointed [Axemble SA](#) as a distributor of the entire Seemage product line. Axemble, a respected CAD and PLM integration firm, is France's largest SolidWorks distributor and is the second largest distributor of SolidWorks in the European Union. Axemble will bring Seemage to the EU's many small and midsize manufacturing companies, helping those businesses eliminate the costly and often-overlooked problem of producing accurate product deliverables quickly and efficiently by reusing SolidWorks 3D design data.

Axemble's experience in serving small- and medium-sized manufacturers leads them to select Seemage as the ideal solution for creating more value from 3D CAD data. In addition, Seemage's ability to easily integrate with PLM systems means that Axemble can offer its customers a more complete solution at lower cost.

"The SMB market represents a strategic target for us and a real growth opportunity," said Christian Donzel, Co-president, Axemble SA. "Seemage's solutions will complement our SolidWorks offerings with functionality we currently do not provide to our customers. It also will allow us to solve product documentation issues that arise outside of the engineering department and increase the number of people able to leverage the power of 3D. We welcome Seemage into our portfolio. It represents a great opportunity to introduce to our customers an additional value proposition that leverages their current PLM and CAD investments."

Seemage is revolutionizing manufacturing, service, technical illustration, maintenance and support with its "product information everywhere" technology. Based on open XML standards, Seemage imports a complete digital product definition into Seemage's easy-to-use content creation and management applications. Using Seemage, content creators across the enterprise can reuse 3D CAD information and combine it with critical data like bills-of-material (BOMs) from enterprise resource planning (ERP) systems to create a broad range of product deliverables. Rich deliverables can include animations, technical illustrations, marketing materials and service and support documentation. Seemage's open XML technology provides seamless integration into existing customer processes and enterprise applications. Seemage can be easily incorporated into standard desktop environments to enhance the productivity of content consumers. Further, because Seemage is XML-based, Seemage-authored content is always fully associative to any change in the digital product definition, ensuring users have the latest product information automatically.

"We are very excited to be working with Axemble because they are leaders both technologically and in customer service," said Bruno Delahaye, Vice President Worldwide Sales, Seemage SA. "Seemage offers small- and medium-sized manufacturers a significant opportunity to improve quality and reduce costs. Combined with Axemble's expertise, we are certain that SolidWorks customers will discover many important ways to reuse SolidWorks design data to increase the bottom line."

To learn more about Seemage, please register for a live web seminar at <http://www.3dmojo.com/webinar>.

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Sequence Columbus Discovers New World of Performance

29 May 2007

[Sequence Design](#) announced upgrades for its Columbus parasitic extractors, aimed at high-frequency design, 65nm characterization, and analysis of simultaneous switching noise (SSN). These new features cap a line of related improvements over the past year, including Statistically Accurate Corners for 65nm interconnect, Speedview-AMS for full-custom voltage-drop and EM analysis, and Fast Rail extraction for LVS flows. Information and registration information on DAC demos for Sequence's entire line of extraction products is available online: <http://www.sequencedesign.com/dac-2007/index.htm>.

Columbus-AMS has modeled frequency-dependent inductance since it pioneered RLC extraction in 1999. For designs handling 10GHz signals, it now adds frequency-dependent resistance as part of inductance modeling. Users can still simulate efficiently, because this option does not increase network size or limit Columbus's RLC parasitic reduction.

Flip-chip designs often include 45-degree segments connecting solder bumps to their pads. For analyzing rails and I/O signals in flip-chip designs, Columbus-Turbo now produces compact models of 45-degree net segments. Similarly, Columbus-AMS can produce RLC models for 45-degree segments for nets connecting PCI-X, SATA, and other high-frequency I/Os.

The Columbus family now supports Pextra Corporation's CapSe field solver. Users can now build process libraries 5X faster than previous-generation field solving, without reducing Columbus-AMS's best-in-class accuracy or requiring any changes in how you use the Columbus extractors.

Columbus-AMS recently added Statistically Accurate Corners (SAC). SAC eliminates unrealistic pessimism due to 65nm interconnect variation, which can impose 30% timing penalties in designs.

Columbus now allows users to combine SAC with temperature variations for analyzing full PVT variations. These PVT corners work with existing STAs, instead of requiring a complex transition to statistical STA tools.

Independent of SAC, Columbus-AMS can now extract up to 5 PVT combinations simultaneously. Simultaneous extraction runs 2.5X faster than extracting 5 PVT points separately.

Speedview-AMS provides efficient graphical analysis of power rails in full-custom designs. Now supporting Columbus-Turbo for Fast Rail extraction and Columbus-AMS for signal nets, Speedview-AMS eliminates the bottlenecks in the rail-extraction flow, allowing users to concentrate on simulating and analyzing voltage-drop and electromigration in their designs.

The Columbus extraction product family is part of Sequence's high-performance, low-power design lineup: PowerTheater, CoolPower, CoolCheck, and CoolTime. Columbus-AMS is both a foundation for the company's RTL-to-silicon, power-aware design tools for SoCs and the industry's leading RLC parasitic extraction tool for high-performance digital and analog/mixed-signal designs. Sequence customers have taped out over 200 successful, high-performance designs using Columbus-AMS extraction.

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Synopsys and ARM Optimize Reference Methodology for Aggressive Power Management

29 May 2007

Synopsys, Inc. and [ARM](#) announced an enhanced implementation Reference Methodology (iRM) for the ARM1176JZF-S™ synthesizable microprocessor that supports a wide array of power-management techniques. These silicon-proven best practices, delivered as scripts and documentation, enable the rapid implementation of the ARM1176JZF-S processor with both high application performance and low leakage power during standby operation. These practices are documented in the "Low Power Methodology Manual," published by Springer Science+Business Media. The enhanced iRM uses the Synopsys Galaxy™ Design Platform, including IC Compiler and Design Compiler® topographical technology, to harness these advanced power-management techniques and provide a comprehensive implementation solution that reduces risk and enables predictable success. The enhanced flow provides engineers with the latest in aggressive power-management technology.

The ARM1176JZF-S high-performance applications processor is widely used in a broad range of market segments, including networking, entertainment, consumer, imaging and wireless. The low-power design is enhanced with support for ARM's Intelligent Energy Manager™ (IEM) technology and various low-power modes. These low-power modes allow full use to be made of the leakage mitigation techniques supported in the enhanced iRM, including MTCMOS power gating with state retention as well as multi-threshold voltage optimization. Combined with the enhanced iRM, IEM enables dynamic power-reduction techniques such as dynamic voltage and frequency scaling with multi-corner, multi-mode optimization.

"As a licensee of ARM's microprocessors, we utilize the ARM-Synopsys Reference Methodology (RM) to enable quick time to market for our customers' SoC devices," said Alan Aronoff, vice president of marketing and business development for the fabless ASIC company Key ASIC, Inc. "As a developer of SoCs for consumer and portable applications, we are pleased to see the RM evolve to support differentiating SoC features we use such as optimizing power dissipation and intelligent power management."

The iRM can be ported to any process and standard cell library with the required low-power library components. It has been developed with ARM Advantage™ memories and standard cell libraries, including the Power Management Kit (PMK), part of ARM's family of Artisan® physical IP, which provides a comprehensive collection of low-power library cells.

"This methodology was developed as part of the ongoing ARM and Synopsys Technology Partnership," said Graham Budd, general manager, Processor Division, ARM. "The initial phase of the project delivered a comprehensive technology demonstrator including fully functional silicon, boards, operating system and application code. This project evaluated a wide variety of different leakage mitigation techniques and the best practices from this research were captured in the updated iRM for the ARM1176JZF-S processor. This iRM enables our customers to easily implement the most effective power-reduction techniques using the ARM1176JZF-S processor and Synopsys solutions in the process technology of their choice."

ARM and [Synopsys](#) will share the results of their low-power collaboration through a series of events at the Design Automation Conference (DAC) to be held in San Diego, CA, June 4 - 8, 2007. Events include a Low-Power Lunch (Convention Center, Room #28 ABCDE, 11:30AM), daily Synopsys Demonstration Suites case study sessions on low power implementation of an ARM1176JZF-S processor (Register at: <http://eventreg.synopsys.com/dac/external/jsp/Login.jsp>), and sessions at the "Tech Expert Theater" at the Synopsys Booth #5278, as well as the aggressive leakage management silicon technology demonstrator in the Synopsys Partner Booth #5273.

"We knew that undertaking a project like this meant collaborating on the early science, aligning product development roadmaps and integrating the individual low-power products from both companies into a single deployable solution," said Antun Domic, senior vice president and general manager of Synopsys' Implementation Group. "By building real silicon-based systems, we are well-positioned to understand and address the challenges faced by our mutual customers in their efforts to build low-power products and get them to market quickly. The collaboration results that serve as the basis for this RM enable designers to quickly employ aggressive power-management techniques for the ARM1176JZF-S processor are also captured in the 'Low Power Methodology Manual.'"

Availability

The enhanced implementation Reference Methodology, which is based on the Synopsys Galaxy 2007.03 release, will be available to ARM1176JZF-S processor licensees from ARM in Q3 of 2007. The ARM1176JZF-S processor, supporting power gating and IEM, is available today.

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UGS PLM Software uses its D-Cubed PGM and 3D DCM Components to Drive Design Productivity in UGS NX 5

30 May 2007

[UGS PLM Software](#), a division of Siemens Automation and Drives ([A&D](#)) announced that its D-Cubed Profile Geometry Manager (PGM) and 3D Dimensional Constraint Manager (3D DCM) components make important new contributions to design productivity in Version 5 of UGS NX® software.

NX 5 is the first release to integrate PGM in its sketcher. The PGM builds upon sketching systems based on the D-Cubed 2D Dimensional Constraint Manager (2D DCM), boosting productivity by managing higher level operations that maintain the consistency of a sketch. In NX 5, the PGM automatically inserts, removes, trims and extends edges to maintain a valid offset profile as modifications are made to a sketch (example animations can be viewed <http://www.ugs.com/products/open/d-cubed/animations/pgm/>).

NX 5 contains the first implementation of the 3D DCM in NX Routing, the NX design environment for electrical and mechanical subsystems. Using new 3D DCM-based capabilities, designers can more productively control the positioning of routing segments using a wide range of dimensions and constraints. In addition, NX 5 has significant improvements to assembly constraints, also enabled by the 3D DCM, providing a more efficient and intuitive environment for building assemblies.

UGS PLM Software's 3D DCM component is used in the majority of today's major CAD applications, including UGS PLM Software's own NX and UGS Solid Edge® products. Its strengths include genuine 3D variational (non-sequential) solving of a wide range of dimensions and constraints applied to the full range of geometry types found in a modern CAD model. The strong performance of the 3D DCM's constraint solving algorithms is the foundation of the latest interactive approaches to assembly part positioning, 3D sketching, direct (non-history based) part modification and kinematic motion simulation.

“Built upon our open technology foundation, NX 5 delivers greater power so users can achieve increased productivity in all product development disciplines,” said Chuck Grindstaff, executive vice president, Products, UGS PLM Software. “Our utilization of UGS' PLM Components, such as UGS Parasolid®, 2D DCM, 3D DCM and PGM, enables major functional enhancements that help increase workflow productivity for NX users.”

UGS PLM Software's level playing field licensing policy for PLM Components promotes interoperability and quality for end-users, and reduces development costs and time-to-market for software vendors.

For more information, visit <http://www.ugs.com/nx5>.

About PLM Components and D-Cubed

UGS PLM Components are software tools designed to promote industry standardization and interoperability within the product lifecycle management (PLM) market, enabling diverse manufacturing enterprises to share information and data with partners and suppliers. UGS PLM Software develops these components, uses them throughout its own product development applications and, demonstrating a market-leading commitment to openness, licenses them to independent software vendors and end-user organizations. The D-Cubed software is part of the PLM Components suite of solutions and represents a family of geometric software components that enable key functionality in CAD, CAM, CAE and PLM applications, including sketching, part and assembly modeling, motion simulation, collision detection, clearance measurement and hidden-line visualization. D-Cubed also provides consultancy based software integration services in support of the PLM Open vision. For more information, visit <http://www.siemens.com/ugs/products/open/>.

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VISTAGY's FiberSIM® 5.3 Software Supports Quality Planning for Composites

31 May 2007

[VISTAGY, Inc.](#) announced FiberSIM® 5.3, the latest version of its composite product development suite of software. This new version of FiberSIM provides support for leading analysis packages and new materials, offering the industry's most open and flexible end-to-end 3D CAD-integrated composite product development environment. In addition, a new module in the software suite enables quality engineers, for the first time, to consume 3D design data created in FiberSIM to automate quality planning tasks and generate AS/EN/SJAC 9100 forms at the click of a button. The FiberSIM 5.3 suite of solutions, including the quality planning capability, will be available within thirty days.

With FiberSIM 5.3, engineers can now utilize design data to automate traditionally tedious, error-prone quality planning processes for first article and ongoing inspection of products made of advanced composite materials. Thousands of pieces of design data are generated throughout the composites development process. Traditionally, in order to create plans, quality engineers manually compiled this information, interrogated every individual note, ply or annotation, and entered data into a series of required forms that comply with AS/EN/SJAC 9100 specifications. This process is extremely slow and error-prone. Quality plans may take weeks to accomplish, especially for large complex parts and assemblies. In addition, data entry errors could cause part rejections and cost overruns, negatively impacting delivery times, product quality and customer relationships.

Now, with FiberSIM 5.3, quality engineers can more efficiently create inspection characteristics based on 3D product design data generated by FiberSIM and captured in a master CAD model. Quality planners can efficiently consume this data to verify design or ply definition information – ensuring the accuracy of final composite parts – and instantly export data to quality planning documents such as AS 9100 forms 1, 2, and 3 – all at the touch of a button. Since complete product definitions are created in FiberSIM and shared as part of a master CAD model, all downstream processes for manufacturing and quality planning are integrated, greatly improving communication between teams. As a result, quality planners accomplish their tasks in hours, not days or weeks, and ensure that composite products are accurate, conform to all design specifications, and accurately reflect design changes.

In addition to powerful new functionality that automates quality planning, FiberSIM continues to offer improved support for new materials, processes and external applications such as finite element analysis. With broader support and new capabilities, VISTAGY has maintained its leadership position of providing the most open and flexible specialized engineering environment for composites development. The following new capabilities are included in FiberSIM 5.3:

Non-crimped fabric (NCF) material orientation input support – NCF materials may contain two or more layers of fiber tows stitched together. As a result, additional information needs to be provided to accurately represent the orientations of each laminate containing these materials. FiberSIM 5.3 now enables users to enter an ordered series of orientations for the layers of NCF materials, and tracks the orientation of the ply, making it easier for engineering to create part specifications and for manufacturing and quality planning to ensure part accuracy.

Origin stagger capability – Engineers who utilize automated deposition machines are required to stagger the origins of plies of similar orientation. The new capability in FiberSIM 5.3 automates the

generation of these staggered origins for a given set of plies, and applies rules to automatically generate a set of laminates based on specifications, making it much faster to design hundreds of plies.

Ply and Weight Tables – Manufacturing engineers are required to create documents such as ply or weight tables that list and calculate information about plies. Now, with FiberSIM 5.3, table generation is a standard action, and engineers can automatically create these tables instantly, with one click of a mouse.

Support for Elfini analysis – FiberSIM 5.3 now supports the Elfini analysis software package for evaluating and simulating composite part performance. VISTAGY software now supports most major finite element analysis packages, advancing its commitment to providing an open and flexible architecture that augments existing IT infrastructure and engineering applications.

“VISTAGY continues to deliver on its vision of a complete, end-to-end model-based process for design, manufacture and quality planning, creating a seamless platform for the 3D development of advanced composite products,” said Bob Flory, vice president of product development at VISTAGY, Inc.

“Engineers downstream have felt the pain of manually creating inspection plans and generating documents, but with quality planning processes linked to FiberSIM 5.3, they will more efficiently communicate critical data downstream to ensure the development of high-quality, competitive composite products for their customers.”



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