

Contents

Acquisitions	2
3D Systems Acquires Bespoke Innovations	2
AVEVA Acquires Bocad	3
EMC Acquires Syncplicity	4
Hexagon Acquires Norwegian Software Company myVR	5
IFS Continues to Invest in Mobility & Field Service Management with the Acquisition of Metrix LLC.	5
SAP to Expand Cloud Presence with Acquisition of Ariba	7
CIMdata News	9
CIMdata Publishes “Delivering PLM Technology to Solve Food & Beverage Industry Issues”	9
“One Siemens”—Observations from the 2012 Siemens PLM Connections Event	11
Company News	13
Applied Software Earns Autodesk Simulation Specialization	13
Atos Wins Major UK IT Outsourcing Contract	14
Carbon Design Systems, Cadence Partner for IP Optimization	15
IMAGINiT Technologies Earns Autodesk Simulation Specialisation in Australia	16
ITI TranscenData Joins the 3D PDF Consortium	17
Jetbox Enters PLM Marketplace	18
Mentor Graphics and AT&S Announce Embedded Component Package (ECP) Technology Partnership to Optimize PCB Design-Through-Manufacturing Flow	19
M-Files and QTE Partner to Deliver Agile ECM to Engineering and Manufacturing Firms	20
MSC Software Announces Research Assist Program Winners for Q1	22
Siemens PLM Software Ranked #1 in Fastest Growing Market Segment for 11 Straight Years	23
Siemens PLM Software Launches New Community College Best Practice Program to Revitalize U.S. Manufacturing	24
SpaceClaim Joins 3D PDF Consortium as Founding Member	26
Synopsys Announces Aart de Geus and Chi-Foon Chan to Become Co-CEOs	26
Synopsys Honors Accellera Systems Initiative with 2012 Tenzing Norgay Interoperability Achievement Award	27
Tecplot Inc. Named a Finalist for the 2012 Red Herring Top 100 Americas Award	28
TraceParts Opens Brazilian Office	29
Events News	30
3D Systems Brings New 3D Printers to RAPID	30
ADT Previews TURBOdesign Volute Module at Turbo Expo 2012	31
Aras to Present at 2012 Collaboration & Interoperability Congress	32
Cimatron Partners with Mitsubishi Machine Tools in Brazil	33
Delcam to Show Faster Tooling Design and Machining at Die & Mould China	33
EVE to Demonstrate ZeBu's Expanded Capabilities at 49th Design Automation Conference	35
Geomagic Customers Showcase Geomagic Studio, Freeform and Geomagic Qualify Solutions for Rapid Design and Manufacturing at RAPID 2012	36
GibbsCAM Helps Hardinge Show Off Product Line	37
Si2 Announces Member Demonstrations at the Design Automation Conference	38
SPRING Technologies to showcase NCSIMUL SOLUTIONS at IMTS 2012	40
Synopsys Hosts Special Events with Industry Leaders at DAC 2012	41
Vero Hosts Largest Ever Reseller Conference	43

CIMdata PLM Industry Summary

Financial News	45
HP Reports Second Quarter 2012 Results	45
Mentor Graphics Reports Fiscal First Quarter Results	47
Synopsys Posts Financial Results for Second Quarter Fiscal Year 2012	48
Implementation Investments	49
CrossControl AB Selects Aras Solution Suite Combined with Minerva EHT for Enterprise Product Lifecycle Management	49
Havok Enters Enterprise License Agreement with Kongsberg for Havok's New Simulation Technology	50
Kawasaki Heavy Industries Selects Autodesk Digital Prototyping Software to Design Electrical Controls in Industrial Robots	51
Outstanding Customer Support Leads Zamil to ZWCAD	52
Product News	53
3D Systems Introduces ProJet™ 7000 Production 3D Printer	53
Autodesk Announces Autodesk Fabrication Software for MEP Engineers and Contractors	54
Automatic Nesting Breaking Out of the Production Office (Aptia Solutions)	55
AVEVA Releases the Latest and Most Powerful Version of AVEVA Instrumentation	56
BIMx by GRAPHISOFT is First 3D AEC App to Fully Utilize the New iPad's Retina Display	57
CNC Machine Makers and Users Agree on Alphacam Software	58
Eagle Point Software Corporation Announces 2013 Updates to Its AutoCAD Civil 3D Software Companion Solutions	59
EMC Accelerates Journey to Cloud for Engineering, Plant and Facilities Management Organizations	60
EMC Atmos Transforms Big Data Storage by Simplifying Global Scale and Expanding Cloud Access	61
HyperSizer v6.2 from Collier Improves Design and Manufacturability of Composites and Metals	63
HyperWorks Partner Alliance Adds CONVERSE Process Structure Interaction Software to Analyze Fiber-Reinforced Parts	64
IMAGINiT Technologies Releases New Version of IMAGINiT Clarity	65
Informative Graphics Announces Release of Brava! 7 for EMC TaskSpace	67
Luxion Releases KeyShot 3.2: 3D Rendering Enhancements, UI and Speed Improvements	68
MSC Software Announces New Adams/Machinery	69
New Autodesk SketchBook Ink App Delivers Stunning Creative Tools for iPad	70
Quill Support for Advanced Milling in Edgecam	71
Reveille Software Announces Support for EMC Documentum D2 and EMC Documentum Mobile	73
SolidACE Releases New Version 3.1 of BuiltWorks	74
ZW3D 2012 Now Has 100+ Million Free Engineering Parts from TraceParts	75

Acquisitions

3D Systems Acquires Bespoke Innovations

23 May 2012

3D Systems Corporation announced today that it has acquired Bespoke Innovations™, Inc. (“Bespoke”), a startup based in San Francisco, California, that is bringing a more personal approach to the way a broad spectrum of medical devices are developed and used. Bespoke develops proprietary, integrated scan, design and print technology that is designed to deliver custom fit prosthetics, orthotics and orthopedic devices that improve treatment and lifestyle outcomes.

CIMdata PLM Industry Summary

Although the company expects to make additional R&D investments before it can commercialize new Bespoke products, it affirms its previously announced guidance of \$330 million to \$360 million in revenue and \$1.00 to \$1.25 Non-GAAP EPS. The company does not expect this acquisition to be material to its revenue for the remainder of 2012.

3D Systems plans to integrate Bespoke into its growing healthcare solutions services and leverage its integrated scan, design and print technology and knowhow to develop and commercialize a full range of innovative, ventilated and lightweight custom fit prosthetics, orthotics and orthopedics.

"This is an exciting and timely development that fuses together essential Bespoke and 3D Systems technologies to deliver an expanded range of life enhancing, cost effective treatments for the benefit of patients and providers alike, within existing insurance reimbursement codes," said Scott Summit, co-founder of Bespoke Innovations™.

"Bespoke products can deliver extraordinary individualization and style to an underserved audience through its extraordinary designs and proprietary scan-to-print technology," said Abe Reichental President & CEO, 3D Systems. "We plan to fast-track additional Bespoke products to market and to enhance their affordability and availability through our technology and manufacturing infrastructure."

 [Click here to return to Contents](#)

AVEVA Acquires Bocad

23 May 2012

AVEVA today announced the acquisition of the Bocad group of companies ("Bocad"). This strategic acquisition includes all companies in the Bocad group, bringing to AVEVA all IPR, employees, contracts and assets. AVEVA will establish a new Structural Design Centre of Excellence across Bocad's two main offices in Bochum, Germany and Ocquier, Belgium where it will continue to develop and support the Bocad software products. The software developed through the Centre of Excellence will be tightly aligned with the AVEVA PDMS and AVEVA Marine solutions and will be sold through the AVEVA global sales force. The new combination will create a world-class engineering design offering for the plant, marine and fabrication markets.

Extensive evaluation by AVEVA identified the Bocad software solutions as the most versatile structural design applications on the market today. The flexibility, capability and richness of functionality make it the first choice for a number of industrial design markets. Richard Longdon, Chief Executive, AVEVA commented, "I am delighted to welcome the Bocad team and software solutions to AVEVA. We are continually looking to strengthen our product portfolio with industry-leading solutions and Bocad easily demonstrated best-in-class. This acquisition further extends AVEVA's position as a leader in the 3D design market and will be excellent news for our customers and expand AVEVA's opportunity to capture even greater market share from our competitors."

Joint customers are already enjoying significant benefits from the existing level of integration between

CIMdata PLM Industry Summary

Bocad and AVEVA solutions which will be further strengthened as a result of the acquisition. Dave Wheeldon, CTO, AVEVA added, “We’ve been listening to customer requests for greater structural detailing capability. The acquisition of Bocad is a direct response to these needs, giving even greater depth to our 3D plant and marine design solutions. Tighter integration between piping design and structural steel detailing will allow engineers and fabricators to work in a dynamic environment for clash detection and management of change. This will provide a major improvement in quality and efficiency.”

In a joint statement Jean-Marie Godfraind and Michael Falck, both Bocad directors said, “We’ve been working for some time on a plan to further develop the full potential for our Bocad technology through closer integration with 3D design solutions. The acquisition fits perfectly into our strategy and will give our customers a great roadmap for the future. We’re very happy to be joining AVEVA. We share a similar heritage, culture and business philosophy which will greatly simplify the merging of our team into AVEVA.”

To find out more about the acquisition, visit www.aveva.com.

 [Click here to return to Contents](#)

EMC Acquires Syncplicity

21 May 2012

At EMC World 2012, EMC® today announced that it has acquired privately held Syncplicity, Inc., a leader in cloud-based file management solutions. Based in Menlo Park, California, Syncplicity provides native cloud-based sync and share capabilities required by enterprise customers. Enterprise sync and share solutions are increasingly required by companies in response to the proliferation of mobile, social and cloud computing. Terms of the transaction were not released.

Unlike competitive offerings geared for consumers, Syncplicity solutions were built for the enterprise, enabling users to interact and share content on their device of choice with the security and governance IT requires. The company's solutions help organizations manage, sync, share and backup files across its extended enterprise, providing the tools they need to maximize productivity, protect their corporate data, and reduce infrastructure and support costs.

Integrating Syncplicity with the Information Intelligence Group portfolio provides a compelling opportunity for organizations, leveraging EMC's rich heritage in enterprise content management, information governance solutions and cloud storage, thousands of enterprise customers who rely on its technology to run their businesses and EMC's strong go-to-market channel. The addition of Syncplicity also extends EMC's strategy of enabling the 'New User' in the Post PC era, those who want to access, share, collaborate and participate in business processes on their preferred device.

Rick Devenuti, President, Information Intelligence Group, EMC:

"It's our core belief that productivity and security are not mutually exclusive. In acquiring Syncplicity,

CIMdata PLM Industry Summary

we validate this concept by uniting enterprise 'sync and share' capabilities for the cloud with governance and rigor that is synonymous with Documentum®. As cloud, social and mobile dominate the way work gets done, our customers require more than simple containers for managing and sharing content. With Syncplicity, we will deliver best-in-class solutions for true extended enterprise collaboration."

The Information Intelligence Group division of EMC is focused on four key strategic priorities for customer success – delighting the "New User" of the Post PC era with a compelling, fast and modern user experience across a variety of end-point devices; accelerating our customers' journey to the cloud; delivering pervasive governance to protect information wherever it exists, and helping our customers transform their business with high value solutions.

 [Click here to return to Contents](#)

Hexagon Acquires Norwegian Software Company myVR

22 May 2012

Hexagon AB has acquired all shares in the Norwegian company My Virtual Reality Software AS (myVR).

myVR provides software that offers a solution for 2D, 3D and 360-degree viewing for desktop and mobile. The company has developed a patented technology platform that enables high-resolution real-time viewing of interactive maps over networks with limited bandwidth. The platform makes it possible to view large-scale models on any 3D hardware-supported client platform, including mobile phones and tablets.

"The acquisition of myVR will be of great value for Hexagon's current offerings. Everything is going mobile, including our customer offerings," said Ola Rollén, President and CEO, Hexagon AB. "In the past, the problem with displaying 3D data on a mobile device such as a tablet has been size limitations of data transfers, and also the ability to handle the transfer in a real-time environment. myVR has a unique solution to this problem, and Hexagon will make use of its technology in all of our divisions."

Founded in 2003, myVR provides real-time, 3D virtual technology to the Oil & Gas, Building & Construction, Government and Web Portals industries, as well as other traditional and emerging digital markets.

 [Click here to return to Contents](#)

IFS Continues to Invest in Mobility & Field Service Management with the Acquisition of Metrix LLC.

23 May 2012

IFS today announces that it has signed an agreement with the owners of Metrix LLC ("Metrix") to purchase 100 percent of the membership interests. The purchase price will be paid in cash. The

CIMdata PLM Industry Summary

acquisition will further strengthen IFS's market position in the high-growth global Mobility & Service Management application market.

Metrix was founded in 1980 in the USA and is 100 percent focused on providing advanced Mobility & Service Management applications. The company is headquartered in Waukesha (Wisconsin, USA) with subsidiaries in the Netherlands and Singapore.

The company generated net revenue of \$8.7 million and EBITDA amounting to \$1.3 million in the financial year ending December 31, 2011.

Metrix has built a very strong position providing service management solutions to industries such as Asset & Capital Equipment, Telecommunications, High Tech & Medical Device Manufacturing, Transportation, and Third Party/Outsourced Field Service Operations. They have approximately 90 customers including many well-known brands such as the Ericsson Group, Motorola, Xerox, Space Engineering Services, DHL, Auto Windscreens, ITT, IMAX, Ingenico, Makino and Sysmex.

The acquisition provides IFS with a state of the art, built-in, configurable and packaged mobile application for the field service market. This solution offers short time to value and a robust, mobile development framework which will add valuable mobile technology and experience to IFS. Metrix has provided mobile solutions to the field service market since 1991, and has continued to innovate to offer modern, leading-edge technology.

By combining IFS, Metrix, and IFS 360 Scheduling, a real-time workforce scheduling solution, IFS can realize strong revenue synergies as it gives IFS the most complete service management offering on the market - from a single vendor. IFS now provides both a broader service and project centric ERP solution for asset intensive industries (long life capital equipment), as well as a more customer-centric (contact center, workforce scheduling) solution for high volume service providers - both combined with a state-of-the-art on/off-line mobile application.

In addition, the acquisition further extends IFS' existing cloud strategy. Metrix is available through multiple deployment options: On-premise, Software-as-a-Service (SaaS) or Software + Services.

“With the acquisition of Metrix, IFS can be seen as executing on its stated strategy for growth by investing in one of the fastest growing sectors for enterprise applications. Market penetration of advanced service management & mobility solutions is estimated by Gartner at only 20 percent of the addressable market, with highest demand in capital-intensive industries such as utilities and telecoms. This acquisition gives IFS an excellent platform to exploit the growth potential in this market and provide solutions to help our customers deliver competitive advantage. IFS will significantly strengthen its execution capabilities in this very attractive sector, especially in North America, to the benefit of all our existing and new customers” Alastair Sorbie, IFS CEO said.

Larry Laux, Metrix Founder, said, “IFS and Metrix will be an unstoppable force in the service

CIMdata PLM Industry Summary

management and mobility market. IFS, with its international presence, strong position in service & asset management and customer-focused culture is an ideal fit with Metrix. My team and I very much look forward to joining IFS and continuing to accelerate the growth of the mobile workforce management business”.

IFS Americas will be responsible for integrating Metrix. President & CEO of IFS Americas, Cindy Jaudon, looks forward to welcoming both new customers and employees to IFS.

IFS expects that there will be a positive earnings impact from the acquisition in 2012.

 [Click here to return to Contents](#)

SAP to Expand Cloud Presence with Acquisition of Ariba

22 May 2012

SAP AG and Ariba, Inc today announced that SAP's subsidiary, SAP America, Inc., has entered into an agreement to acquire Ariba, the leading cloud-based business commerce network, for \$45.00 per share, representing an enterprise value of approximately \$4.3 billion. The acquisition will combine Ariba's successful buyer-seller collaboration network with SAP's broad customer base and deep business process expertise to create new models for business-to-business collaboration in the cloud.

The Ariba board of directors has unanimously approved the transaction. The per share purchase price represents a 20% premium over the May 21 closing price and a 19% premium over the one month volume weighted average price per share. The transaction will be funded from SAP's free cash and a EUR 2.4 billion term loan facility. The transaction is expected to close in the third quarter of calendar year 2012, subject to Ariba stockholder approval, clearances by relevant regulatory authorities and other customary closing conditions. The transaction is expected to be accretive to SAP's non-IFRS earnings per share in 2013.

Business Network to Drive Growth

With the addition of Ariba, SAP will acquire the leader in cloud-based collaborative business commerce. The acquisition establishes SAP as the leading business network, adding business-to-business collaboration to its existing solutions. The move positions SAP in a fast-growing segment as buyers and sellers across the globe connect in new ways through the cloud.

SAP's entry into the inter-enterprise business network space significantly expands its growth opportunities and accelerates its momentum in the cloud. Last week, SAP announced the roadmap for its cloud applications business (Software-as-a-Service), focusing on managing customers, suppliers, employees, and financials, in addition to its cloud suite offerings SAP Business ByDesign and SAP Business One. The acquisition will also significantly boost SAP's cloud applications portfolio with the addition of Ariba's leading cloud-based procurement solutions.

CIMdata PLM Industry Summary

Headquartered in Sunnyvale, California, Ariba has approximately 2,600 employees. The company is the leader in cloud-based collaborative commerce applications and the second-largest cloud vendor by revenue. Ariba combines industry-leading technology with a web-based trading community to help companies discover, connect and collaborate with a global network of partners - all in a cloud-based environment. With \$444 million in total revenue, Ariba experienced 38.5 percent annual growth in 2011. Its business network recorded 62 percent organic growth in the same period.

"The cloud has profoundly changed the way people interact. The impact will be even greater as enterprises connect and collaborate in new ways with their global networks of customers and partners," said SAP Co-CEOs Bill McDermott and Jim Hagemann Snabe. "Cloud-based collaboration is redefining business network innovation, and we are catching this wave in the early stage of its evolution. The addition of Ariba will create the business network of the future, deliver immediate value to our customers and provide another solid engine for driving SAP's growth in the cloud."

Businesses to Benefit from Combination

Industry experts estimate the cloud-based enterprise network and procurement segment at a current size of \$5 billion in revenue. The Ariba network is the largest and most global trading network, connecting and automating more than \$319 billion in commerce transactions, collaborations, and intelligence among more than 730,000 companies. SAP's global customer base of more than 190,000 companies includes the largest buyers and sellers in the world, offering great potential to increase the number of participants, as well as the volume and types of transactions conducted through this network. Already today 63% of the world's transaction revenue touches an SAP system. SAP and Ariba will facilitate collaborative commerce within and between companies of all sizes.

The combination of SAP's innovations and core applications with the Ariba cloud-based network will create new business value for customers:

Together, SAP and Ariba can deliver a truly end-to-end solution that enables companies to achieve a closed-loop from source-to-pay, regardless of whether they deploy in the cloud, on-premise or through a combination of both.

Ariba's open network and SAP's integration expertise will facilitate participation and extend the benefits of business collaboration to all companies, on any system, from any provider.

The Ariba network will benefit from the performance delivered by using SAP's flagship in-memory platform SAP HANA.

Relationship and transaction information from commerce activity in the Ariba network together with SAP's leading analytics will provide real-time insights to enable trading partners to discover, connect and collaborate more effectively.

CIMdata PLM Industry Summary

All SAP customers will be able to easily connect to the business network through pre-built integration points.

Through the combination of the business network procurement solutions from Ariba and SAP, organizations can gain 360-degree business intelligence and effectively demonstrate that spending activities, contracts, and supplier interactions adhere to corporate compliance guidelines.

"In our personal lives, networks are playing an increasingly important role in how we connect, share, and shop - bringing more insight and efficiency into everything we do," said Bob Calderoni, CEO, Ariba. "Businesses are looking for the same connectedness, insight, and efficiencies in the processes and collaboration with customers, suppliers, and partners beyond the walls of their companies. By combining Ariba's open global trading network and SAP's solutions and analytics, we are ushering in a new era of business-to-business collaboration and driving new levels of productivity."

Upon completion of the transaction, it is planned to consolidate all cloud-related supplier assets of SAP under Ariba. The existing management team will continue to lead Ariba, which will operate as an independent business under the name "Ariba, an SAP company." The SAP Executive Board intends to nominate Ariba CEO Bob Calderoni to the SAP Global Managing Board after closing of the transaction and subject to the approval of the SAP Supervisory Board.

Financial Analyst and Media Conference Call

SAP and Ariba will host a conference call for financial analysts and media to discuss the transaction on Tuesday, May 22nd, at 10:00 pm CET / 4:00 pm Eastern/ 1:00 p.m. Pacific. The call will be webcast at www.sap.com/investor

Conference ID: 7427781

Participant Dial-in NumbersUS: +1 646 254 3361UK: +44(0)20 3140 8286Germany: +49(0)89 1214 00699

Replay Dial-in NumbersUS: +1 347 366 9565UK: +44(0)20 3427 0598Germany: +49(0)89 2030 3201Replay Passcode: 7427781

 [Click here to return to Contents](#)

CIMdata News

CIMdata Publishes "Delivering PLM Technology to Solve Food & Beverage Industry Issues"

24 May 2012

CIMdata, the leading global Product Lifecycle Management (PLM) consulting and research firm announces a new paper about the use of PLM in the food and beverage industry.

CIMdata PLM Industry Summary

Safety is paramount in the food and beverage industry. Recipes and formulas must be validated for compliance with regulations that vary globally. Additionally, labels must be complete and accurate. Meeting these demands while producing nutritional, flavorful, safe, and appealing products profitably is challenging.

To be successful, best-in-class manufacturers are leveraging PLM technology such as that from Infor. Innovative PLM technologies included in Infor10 PLM Process (Optiva) help manufacturers develop and deliver competitive, profitable products to the marketplace. Consolidating all product-related information, i.e., the raw materials, ingredients, formulas, packaging, labels, and artwork, into a single source of truth reduces mistakes and shortens the time to find information. Compliance analysis helps ensure that products meet regulations quickly and that there are no surprises after product launch. Least-cost formulation helps manufacturers compete and be successful both in the short and long term.

This paper discusses many of these issues and how Infor10 PLM Process (Optiva) is enabling its users to achieve business goals profitably.

“Delivering PLM Technology to Solve Food & Beverage Industry Issues” is available to be freely downloaded from CIMdata’s [Publications web page](#).

About Food & Beverage and PLM

Buyers of foods and beverages want healthy, high quality products, at low prices—and they want increasing variety of choice. Owners and investors want a reasonable return on investment. However, a number of issues transpire to make this difficult: raw material, ingredient, energy, and transportation costs are increasing; retailers and distributors want lower prices; and regulations are becoming more sophisticated and more complex. Being in the food and beverage manufacturing business is increasingly challenging.

Perhaps the most difficult issues to address are regulatory. Compliance and reporting (e.g., for labeling) have become more complex while stepped-up enforcement adds complexity and cost to manufacturing processes. Regulatory issues primarily fall into two categories: food safety, where the product may be physically harmful, and labeling, for which completeness and accuracy are paramount.

Within PLM environments, product-related information (e.g., a specification, formula, or ingredient list) is stored in an information structure called the data model. By interrogating the data model, users (and applications) can easily discover when a downstream piece of information needs to be updated. For example, if an ingredient is replaced in a formula, and the formula has an organic claim, the ingredient needs to be validated and approved before the formula can be released. If the new ingredient does not have the organic attribute set to “yes” the formula will get flagged as failing the organic check, and production will be blocked.

PLM is rapidly being adopted by food and beverage manufacturers to address these and many other

CIMdata PLM Industry Summary

issues critical to their ability to establish and maintain competitiveness in their markets and to ensure their products are safe and meet all regulatory requirements.

About CIMdata

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

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

 [Click here to return to Contents](#)

“One Siemens”—Observations from the 2012 Siemens PLM Connections Event

23 May 2012

PLM World (plmworld.org) and Siemens PLM Software hosted their annual Americas User Conference on May 6 to 10 in Las Vegas, NV. According to the organizers, this is the largest, longest running user event in the industry, with over 1,800 attendees, 60 exhibitors, and 400 presentations this year.

During his keynote presentation, Chuck Grindstaff, President and CEO of Siemens PLM Software, claimed that Siemens PLM Software is growing in every geography and product segment in which they participate. Key wins were cited at Daimler, BAE Systems Submarine Division, Johnson Controls, Boeing and a number of others, with many of these claimed as competitive replacements. Mr. Grindstaff reiterated Siemens PLM Software's three key value propositions for their customers and prospects: “Intelligently Integrated Information, Future-proof Architecture, and HD User Experience.” These propositions provided a framework for all subsequent product segment presentations, with enhancements and examples categorized by each proposition. He also used a new potential tagline, “One Siemens—The Integrated Technology Company” to highlight the many synergies Siemens PLM Software is achieving since their acquisition by Siemens AG. He noted that Siemens PLM Software has access to Siemens AG visioning and strategic planning across the corporation, with seed R&D funding provided to Siemens PLM Software for joint efforts with other business segments.

Mr. Grindstaff also provided an update on their move to support the requirements of specific industry

CIMdata PLM Industry Summary

segments, a trend and approach currently also being pursued by their main competitors in the PLM space. For Siemens PLM Software, they started by mapping industry needs, using the language of each industry vertical, a process they were continuing with industry sessions at the event throughout the week. As they first discussed at their fall Analyst event, Siemens PLM Software formed a new group, led by Steve Bashada (the long-time Teamcenter lead), to organize and synthesize information and requirements for each industry, and drawing upon senior architects from around the company. This new group is developing and agreeing upon industry plans, including gap analyses, and then has the ability to influence R&D direction. CIMdata looks forward to learning more about these solutions as they are fleshed out and delivered to the market. Mr. Grindstaff concluded that Siemens PLM Software is be the partner of choice because of their “Open Culture—Open Data—Open Products—Open Communities.”

Various representatives from Siemens PLM Software spent considerable time over the first two days of the event discussing the importance of systems engineering to PLM, a topic that was the emphasis of CIMdata’s recent global PLM Market & Industry Forum series. Of all of the major PLM competitors, Siemens PLM Software has the longest history in systems engineering, with their SLATE product for requirements management and Teamcenter implementations in large U.S.-based aerospace and defense contractors. During the sessions they described their development efforts to move from requirements management and traceability to model-based systems engineering. CIMdata believes that systems engineering is essential to developing increasingly complex products that rely on embedded software that drives mechanical and electronic components, something that our Forum attendees strongly agreed with across all of our sessions.

In a later session, Eric Sterling, the recently appointed Teamcenter lead, clearly expressed his excitement with their market position and their strategic direction. Consistent with CIMdata’s definition of PLM, solutions like Teamcenter are the engine of a company’s PLM strategy, and Mr. Sterling drew his enthusiasm, in part, from the emphasis on his team’s solution in the earlier presentations. As often happens at such events, some fun was poked at competitors in the market, in this case about multi-CAD and openness, two topics at the core of Siemens PLM Software’s strategy for over a decade. According to Mr. Sterling, recent releases significantly enhanced performance and software quality, delighting their customers, and the next few releases will add significant user experience improvements. (This has been the focus of PTC and SAP in their recent releases, and is welcome news for Teamcenter.)

These are just a few highlights of this vast event, with twenty content tracks and four separate training tracks (some of which drew people for a 7:00AM start, a tough draw in a location with as many nocturnal temptations as Las Vegas). Readers can find more information on the event from the Tweet stream (posted by @smprezbo and @plmjim from CIMdata or using the hashtag #PLMConx).

As documented in our annual PLM market survey, Siemens PLM Software has been a long time leader in the overall PLM market, as well as in several product segments that we track separately. The company is known for developing and elaborating on a set of consistent strategies, and working diligently to achieve them, including customers in the process to ensure that none will fail, to paraphrase one of their company mantras. This event provided an update on their strategic direction unveiled last fall, and illustrated the roadmaps and progress toward achieving these objectives in their many product segments. The customers that presented are clearly pleased with Siemens PLM Software’s direction, and

CIMdata PLM Industry Summary

highlighted how they are using Siemens PLM Software's solutions to meet or exceed their PLM objectives. If Siemens PLM Software can indeed deliver on the promises described across the event, including the significant challenges arising from moving to an industry focus, their future as "One Siemens" should be a bright one.

About CIMdata

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

 [Click here to return to Contents](#)

Company News

Applied Software Earns Autodesk Simulation Specialization

24 May 2012

Applied Software, a Building Information Modeling (BIM) services provider, as well as a provider of Autodesk 2D and 3D CAD products and services, announced today that it has earned the new Simulation Specialization designation for value-added resellers (VARs) from Autodesk, Inc. As an Autodesk Specialized Partner, Applied Software has shown that it has made significant investment in its people, has a solid business plan specific to its specialization area, has customer references and can provide a high level of expertise, experience and support to customers in the manufacturing industry.

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

"We are pleased to have earned the Simulation Specialization designation," said Kevin Howk, director of Services, Manufacturing, at Applied Software. "The specialization recognizes our commitment to the manufacturing industry and our expertise in delivering advanced services, consulting, training and support that help product design professionals achieve the highest proficiency with Autodesk solutions."

About Applied Software

Applied Software is one of the largest Autodesk resellers in the Southeastern United States. It is also one

CIMdata PLM Industry Summary

of the nation's leading providers of Building Information Modeling (BIM) services including BIM modeling, analysis, training, integration and mentoring, and provides Digital Prototyping solutions to manufacturers. Since its founding in 1982, Applied Software has helped more than 5,000 commercial, academic and government clients achieve high performance and growth. Applied Software's comprehensive array of solutions and services includes product updates, education and a dedicated staff of sales and services professionals. Applied Software is also a holder of a GSA BIM Services IDIQ contract to provide a full range of BIM services to the federal government. Applied Software was awarded Autodesk Platinum Reseller of the Year in 2011. Over the years, it has received numerous Platinum and other recognitions from Autodesk, including again being honored in 2012 as a Platinum Club award winner.

 [Click here to return to Contents](#)

Atos Wins Major UK IT Outsourcing Contract

21 May 2012

Atos announced today that it has been awarded a five-year IT outsourcing contract worth £140 million by the Shared Services Alliance (SSA), a collaborative procurement initiative within the Nuclear Decommissioning Authority (NDA).

The NDA is a non departmental public body reporting into the Department of Energy and Climate Change. It is responsible for decommissioning and the clean-up of the UK's civil nuclear waste in a safe, secure and cost-effective way. The SSA was set up in 2009 to ensure all members could achieve the best value for money by aggregating demand for common services, including IT.

This new contract is the first IT contract to be awarded by the SSA and covers all IT services for four members, namely Sellafield, Magnox, National Nuclear Laboratories and Low Level Waste Repository. It is a multi-service contract, comprising 18 service towers networking, desktops, applications and hosting services, as well as Service Integration and Management (SIAM).

Under the contract, Atos will consolidate and modernise the existing infrastructure to further improve service for more than 18,000 end users located at more than 30 separate locations. These improvements will deliver savings of more than 30% over 5 years to the four businesses that have collaborated under the Nuclear Decommissioning Authority's (NDA's) Shared Services Alliance for their IT outsourced services.

Speaking on behalf of the joint team project team which managed the process of awarding the contract, Keith Gibson Project Manager for the Shared Services Alliance, said: "This is a very significant contract for all the businesses involved. It signals a period of significant change with the new contract having a strong focus on investment and future benefits realization. It will reduce costs by simplifying IT support arrangements and provides a solid platform for future developments."

"The bidding process considers all the bids against a wide range of factors, including technical

CIMdata PLM Industry Summary

capability, benefits realization (including cost savings), cost, experience, service levels and innovation,” he added. “Overall Atos emerged as the preferred bidder from that process, and we are looking forward to working with them.”

Ursula Morgenstern, CEO for Atos in the UK & Ireland, said: “This is an important new contract win for Atos. The chance to help the NDA family to fulfill its mission by dramatically improving their ICT estate and bringing the delivery costs down dramatically is an exciting opportunity. We have a strong heritage in the nuclear side of the energy market and this new contract will allow us to broaden our experience of the role that ICT plays in the decommissioning market.”

 [Click here to return to Contents](#)

Carbon Design Systems, Cadence Partner for IP Optimization

24 May 2012

Carbon Design Systems® Inc. and Cadence Design Systems® announced today availability of a Carbon Performance Analysis Kit (CPAK) to accelerate the intellectual property (IP) benchmark process.

The CPAK incorporates a Cadence double data rate (DDR3) Memory Controller together with an ARM® Cortex™ A9 MPCore™ processor, and industry-standard benchmarks, such as those from EEMBC®.

"Optimization of the processor to memory datapath plays a key role in the development of many leading-edge SoCs," remarked Rick Lucier, president and chief executive officer at Carbon. "By partnering with Cadence to deploy this CPAK, we are enabling engineers to be more productive by benchmarking the same day they download the package from Carbon IP Exchange."

"Being able to quickly demonstrate the value and ease of use of our memory controller models is a great aid to our customers," stated Vishal Kapoor, vice president of marketing, SoC Realization Group at Cadence. "This Performance Analysis Kit bypasses any traditional setup issues and enables engineers to be productive immediately."

"The Carbon/Cadence Performance Analysis Kit executing CoreMark highlights the important role that industry standard benchmarks can play in the IP selection process," added Markus Levy, president of EEMBC.

"ARM power-efficient technology is at the heart of many products, ranging from embedded microcontroller applications to servers, network infrastructure and smart connected devices," commented Joe Convey, Director of Design Enablement, ARM. "Reference implementations, such as the Carbon/Cadence Performance Analysis Kit, are important tools that allow ARM Partners to innovate more easily by quickly understanding capabilities of the Cortex-A9 processor."

About the Platform

The Carbon/Cadence offering is the latest addition to the library of Carbon Performance Analysis Kits available from Carbon's IP Exchange web portal (www.carbonipexchange.com). This platform features an ARM Cortex-A9 processor and a Cadence DDR3 memory controller, along with configurable models for the interconnect fabric, DDR3 memory and memory PHY.

In addition, multiple configurable traffic generators are included as producers and consumers to model additional bus traffic. Included in the system is a software package that includes, among other tests, the CoreMark benchmark from EEMBC. The CPAK executes in Carbon's SoCDesigner Plus virtual prototype environment that delivers a rich suite of analysis and visualization tools.

About Carbon Design Systems

Carbon offers the industry's only unified virtual prototype solution along with the leading solution for accurate IP model creation. Carbon virtual platforms can execute at 100s of MIPS and with 100% accuracy to enable application software development, detailed architectural analysis and secure IP model distribution. Carbon's solutions are based on open industry standards, including SystemC, IP-XACT, Verilog, VHDL, OSCI TLM, MDI, CASI, CADI and CAPI. Carbon's customers are systems, semiconductor, and IP companies that focus on wireless, networking, and consumer electronics. Carbon is headquartered at 125 Nagog Park, Acton, Mass., 01720. Telephone: (978) 264-7300. Facsimile: (978) 264-9990. Email: info@carbondesignsystems.com . Website: www.carbondesignsystems.com .

 [Click here to return to Contents](#)

IMAGINiT Technologies Earns Autodesk Simulation Specialisation in Australia

23 May 2012

Rand Worldwide today announced that the Australian division of IMAGINiT Technologies has been awarded the Simulation Specialisation designation from Autodesk, Inc. IMAGINiT Australia is the first Autodesk channel partner to receive this designation in the Asia Pacific region. With this designation, Autodesk recognizes that IMAGINiT has invested significantly in training members of their team to demonstrate an understanding of simulation, fluently represent and support the Autodesk products that make simulation possible and recognize and convey the business benefits that simulation brings to clients.

“This formal designation bestowed by Autodesk confirms our position as a leader in the Australian market and demonstrates our commitment to helping our manufacturing clients leverage tools that help them predict, validate and optimize their designs prior to manufacturing,” said Michael Lachs, managing director of IMAGINiT Technologies, Australia.

“This new designation underscores IMAGINiT’s strategy of investing in great people, and developing industry-based methodologies focused on achieving client business goals,” said Bill Zavadil, senior vice president, Worldwide Services at IMAGINiT Technologies. “Our simulation specialists are trained to

CIMdata PLM Industry Summary

work using the Autodesk products to help clients improve collaboration, design better and safer products, save time and reduce manufacturing costs. Our team is committed to sharing their deep industry expertise to ensure our clients' success."

 [Click here to return to Contents](#)

ITI TranscenData Joins the 3D PDF Consortium

22 May 2012

ITI TranscenData announced today that it has joined the 3D PDF Consortium as a Strategic Member. ITI TranscenData supports the translation, validation and report generation of 3D PDF within their unparalleled suite of CAD/CAM/CAE/PLM interoperability software products and related services.

Comprised of end-users, software vendors, systems integrators, developers, and software development toolkit providers, the 3D PDF Consortium organization seeks to encourage the continued development and adoption of 3D PDF as a truly open standard for visualization, collaboration, data exchange, and the long-term archiving and retrieval of engineering data.

"The 3D PDF Consortium proudly welcomes ITI TranscenData as a founding member" says David Opsahl, Executive Director of the 3D PDF Consortium. "As a leader in CAD Interoperability solutions, ITI TranscenData's support of the 3D PDF Consortium further reinforces 3D PDF as a standard for data exchange."

ITI TranscenData's [CADfix](#) software offers the translation of 3D PDF files. [CADIQ](#) validates that 3D PDF files are equivalent to the native CAD models from which they are derived and produces side-by-side, 3D PDF reports for intuitive communication of engineering changes or other model comparison issues. Automated exchange of 3D PDF files is offered by [DEXcenter](#), enabling customers to rapidly meet their 3D MBD initiatives.

"ITI TranscenData is committed to providing the most robust solutions in the CAD interoperability industry" stated Don Hemmelgarn, President of ITI TranscenData, "Our business supports the efforts of the 3D PDF Consortium, and we are pleased to be attending their first annual meeting at the 3D Collaboration and Interoperability Congress this week. The use of 3D PDF as a multi-purpose visualization standard continues to expand and ITI's participation in the 3D PDF Consortium enables us to influence the standard and related software tools to meet our customer's needs."

About the 3D PDF Consortium

The 3D PDF Consortium is a community of software providers, systems integrators, government agencies, and businesses dedicated to achieving 3D ubiquity by leveraging the PDF platform. Our members look to the 3D PDF Consortium to demonstrate the success of these solutions within the market and promote 3D PDF as a solution to improve business results. The 3D PDF Consortium mission is to promote 3D PDF adoption through demonstrating best practices, providing technical input to the standards process, and generating awareness of the power of 3D-enabled PDF to solve a multitude of

CIMdata PLM Industry Summary

communication and collaboration challenges across various industries. For more information on the 3D PDF Consortium, please visit <http://www.3DPDFConsortium.org> and follow us on Twitter @3DPDFConsortium.

About ITI and ITI TranscenData

International TechneGroup Incorporated (ITI) was founded in 1983 and is headquartered in Milford, OH. ITI TranscenData is the product data interoperability business within ITI. CAD/CAM/CAE/PLM vendors and end users alike utilize ITI TranscenData's products and services for seamless data exchange between dissimilar systems. Customers include ABB, Airbus, BAE Systems, Boeing, Dassault, EADS, Ford, Honeywell, Lego, Lockheed Martin, NASA, MAHLE Powertrain, Pratt & Whitney, Raytheon, Renault, Rockwell Collins, Samsung Electronics, Siemens, Snecma, Spirit AeroSystems, Thales, ThyssenKrupp, US Air Force, US Army, Xerox and others.

For more information about ITI TranscenData's products and services, visit www.transcendata.com

 [Click here to return to Contents](#)

Jetbox Enters PLM Marketplace

22 May 2012

Jetbox, Inc., provider of software tools for deploying and maintaining PLM implementations, announces its introduction into the PLM marketplace. Recent PLM implementations performed by Jetbox partners who used the iC5™ toolset, have already achieved:

- 88% reduction in consulting services
- 75% reduction in implementation team size
- 70% decrease in time-to-value
- 100% reduction in the need for customizations

"Jetbox has completely re-invented the way PLM is deployed and used. Had it not been for their methodology, our project would have been extended many more months and the overhead involved in getting the project deployed would have significantly increased," stated Michael A. Pereira, Vice President Global QMS, Pentax HOYA.

Included in its ground-breaking software is iC5™ Turbo, a comprehensive sales and implementation toolset that slashes the time and eliminates the expertise required to sell, plan, install, configure, document, test, deploy, train, use, support, and upgrade a PLM system. This powerful software toolset helps companies eliminate the need for a customized solution and a team of consultants, keeping within the constraints of an out-of-the-box approach.

"I have seen firsthand the enormous value that PLM can bring to companies when done right. I've also seen companies that stumble - or fail to even get off the ground - because of the cost, effort and

CIMdata PLM Industry Summary

complexity of PLM implementations. So I'm excited to be able to take all of the success that we've had, use the knowledge we've gained to develop tools to do it well, and automate it, and bring it to the masses so that everyone can achieve successful results. There is no reason why every VAR and SI out there can't sell and implement successful PLM solutions," stated Jon Nelson, Chief Executive Officer of Jetbox.

Jetbox has already successfully partnered with leading industry PLM platforms and implementation providers, such as Dassault Systemes and Integware, and is working with several partners within North America, Europe, and Asia Pacific. Jetbox continues to grow its partner community through SIs, VARs, PLM implementation providers, and PLM platform providers.

"SIs and VARs face an increasingly complex and difficult business environment," states Stan Przybylinski, CIMdata's Director of Research. "Trying to rapidly deliver value is challenging, as their partners deliver a broader portfolio that requires more training and other investments, and their clients are demanding solutions closer to out-of-the-box. Solutions like those planned by Jetbox have the potential to help channel partners, and potentially end user companies themselves, get the rapid time to value and productivity that they seek."

For more information on Jetbox and partnership opportunities, please visit: www.jetboxsolutions.com .

 [Click here to return to Contents](#)

Mentor Graphics and AT&S Announce Embedded Component Package (ECP) Technology Partnership to Optimize PCB Design-Through-Manufacturing Flow

24 May 2012

Mentor Graphics Corporation today announced the technology collaboration with the AT&S (Austria Technologie & Systemtechnik) Embedded Component Package (ECP®) process for Mentor Graphics® PCB design-through-manufacturing flow. AT&S' advanced ECP technology for microelectronic component packaging leverages embedded bare die and discrete passives into the core of a PCB, reducing the package form factor by 30-50% for improved functionality and system performance. Now, with the Mentor® Expedition® Enterprise flow, designers are able to implement AT&S's advanced technology on their PCB cores up to 40% faster and with improved quality than with previous design tools. As a result, PCB designers using ECP technology will realize improved electrical performance, thermal management, miniaturization, cost efficiency and overall product quality, with significant time reduction.

AT&S has worked with Mentor Graphics to develop a streamlined design workflow for embedded active components into the core of a PCB. This is an emerging technology that has drawn great interest from semiconductor companies. Since embedding active components is relatively new to PCB and package design, it does present challenges to the traditional design flow. As well, Mentor provides a complete PCB design-through-manufacturing flow with its integrated Valor® manufacturing and assembly software tools.

CIMdata PLM Industry Summary

“Our ECP technology addresses the complexities of today’s embedded systems and is currently being adopted by major silicon vendors in the mobile handset market,” said Mark Beesley, COO of Advanced Packaging, AT&S. “Mentor is the global leader in PCB design software so the integration of our ECP technology process with Mentor’s design-through-manufacturing flow provides an optimum solution for our mutual systems design customers.”

Mentor and AT&S have found dramatic time savings using Mentor Graphics PCB design tools with the ECP technology. A recent design project comprised a complex package module with two embedded flip-chip die and, on top of the substrate, a stacked die along with another flip-chip die. This would normally require ten working days to setup, design and output for manufacturing. However, using the Mentor-AT&S integrated technology, product development was achieved in just six days; this also enabled the inclusion of thermal vias using the Mentor FloTHERM® tool for thermal analysis.

“Mentor is the first company to fully integrate the ECP technology within its design-through-manufacturing flow, making this solution accessible to our global customers,” stated Henry Potts, vice president of Mentor Graphics Systems Design Division. “Our mission is to provide advanced, seamless software tools and services to help our mutual customers develop innovative, profitable products in today’s competitive global economy – from PCB design through fabrication and assembly.”

The Mentor Graphics Expedition Enterprise platform with the ECP technology will be released later this year. More product details can be found on the company website: www.mentor.com/expedition.

Mentor and AT&S Co-Presentation at DAC 2012

Mentor Graphics and AT&S will present a User Track session, “Embedding Bare Die and Discrete Passives in an Organic Substrate Package: Design, Assembly and Fabrication Challenges,” at the Design Automation Conference (DAC) 2012 in San Francisco on Wednesday, June 6 at 9:00 a.m.-10:30 a.m. in room 105, DAC Exhibition Hall. To register, go to: www.dac.com. A special 50-minute session on this topic will also be presented by Charles Pfeil (Mentor Graphics) and Nicolas Faust (AT&S) in the Mentor Graphics booth #1530 at 2:00 p.m. on June 6. To register, go to: www.mentor.com/dac.

About AT&S

Formed in 1987, AT&S today ranks among the largest manufacturers of printed circuit boards in Europe and Asia. AT&S is extremely well positioned in the market for high-tech HDI microvia printed circuit boards, which are chiefly used in mobile devices. The company is also highly successful in the automotive, industrial, and medical sectors. The Group employs more than 7,500 people worldwide. For more information, visit www.ats.net.

 [Click here to return to Contents](#)

M-Files and QTE Partner to Deliver Agile ECM to Engineering and Manufacturing Firms

21 May 2012

CIMdata PLM Industry Summary

M-Files Inc., the developer of M-Files flexible cloud and on-premise enterprise content management (ECM) solutions, today announced that QTE Manufacturing Solutions, a Missouri-based IT firm specializing in providing 2D/3D CAD and CAM software solutions to manufacturing and engineering companies, is the newest member of the company's Partner Program. QTE has integrated M-Files into Mastercam, a leading CAD/CAM software solution, as a value-added service to its manufacturing and engineering customers and prospects.

QTE Manufacturing Solutions provides software and services to manufacturers including Mastercam and related applications. The firm, which has traditionally specialized in NC programming applications, inspection solutions, training and technical helpdesk support, computer/software support, and business process management consulting services, has expanded beyond the manufacturing realm with its new division QTE Technology Solutions.

"M-Files alleviates the pain points expressed by our manufacturing and engineering customers regarding misplaced, overwritten, or errantly-modified files associated with their production processes such as NC programming," said Jeff Quinn, President of QTE. "With M-Files, our customers will be able to recapture lost time, increase productivity and reduce errors because they can now instantly find files or information when needed, and further, they can be sure they have the 'right' information based on the latest and most accurate version."

M-Files provides a flexible platform that not only assists manufacturing and engineering companies with their core "front office" businesses, it also provides an easy-to-use solution for managing documents and processes associated with the "back office" operations of the business, such as processing invoices, managing contracts and archiving emails, making it ideal for resource constrained small and medium-size businesses in addition to larger enterprises.

"Many of QTE's customers and prospects are still heavily reliant on traditional methods for managing their documents, including invoices, purchase orders, proposals, contracts, emails, CAD drawings, NC programs, and other vital information," said Scott Erickson, vice president of channel sales at M-Files Inc. "This partnership reinforces our focus on providing manufacturing and engineering companies with the robust and rich ECM capabilities they need to efficiently manage not only documentation and processes associated with design and production, but those associated with all aspects of their business operations."

The M-Files Partner Program enables solution providers and resellers to get in on the ground floor as M-Files establishes a leadership position in the rapidly growing ECM market. M-Files Partners commonly sell and service M-Files in conjunction with existing solution portfolios to help businesses organize, manage and track documents, information and processes to improve productivity and quality and support compliance initiatives.

About QTE

QTE is a St. Louis-based technology software, training and service provider. Founded in 1985, the

CIMdata PLM Industry Summary

company provides technical software, support services, and consulting to nearly all size businesses. QTE has always researched and tested new products to ensure it provides the best products and services to its large customer base and the addition of M-Files continues this commitment. For more information, visit <http://www.qtemfg.com> or <http://www.qtetech.com>.

About M-Files Inc.

M-Files Inc. develops the award-winning M-Files enterprise content management (ECM) system and cloud-based service M-Files Cloud Vault that runs on the Windows Azure platform. M-Files is easy to deploy, learn and use, and has enabled thousands of businesses in over 90 countries make dramatic gains in efficiency and productivity by improving the way they organize and manage their business documents, information and processes. M-Files is available in 24 languages and is in use at customers such as AstraZeneca, EADS, Flybe Airlines and Parker Hannifin. For more information, visit us at <http://www.m-files.com>

 [Click here to return to Contents](#)

MSC Software Announces Research Assist Program Winners for Q1

23 May 2012

MSC Software Corporation, the leader in multidiscipline simulation solutions that accelerate product innovation, today announced the Q1 winners of its Research Assist Program. Three researchers from around the world were awarded simulation software including [MSC Nastran](#), [Marc](#), and [Adams](#), and will apply the technology to engineering research projects aimed at accelerating technological innovation advancements in aerospace, automotive, and biomechanics.

The MSC Software team congratulates Mike Huang from Beijing Transportation University, Robert Owens from Vanderbilt University, and Fulufhelo Masithulela from University of South Africa.

“I am very excited about the opportunity to use MSC’s first-class tools in our efforts to increase the productivity of design and analysis of complex systems,” said Robert Owens. *“The Research Assist Program affords us the opportunity to use many more analysis capabilities than would otherwise be available to us, and thus greatly enhances our research efforts and our potential for success.”*

MSC Software’s [Research Assist program](#) was announced last November, and continues to gain momentum. The program is intended to stimulate innovation by enabling qualified researchers to apply MSC Software technology with no cost burden to further develop their scientific research. Three researchers are awarded software each quarter, with a total of 12 per year.

Mr. Huang at the Beijing Transportation University was awarded Adams to assist with a prestigious program in China aimed at improving the dynamics of a docking system on spacecraft. They will use Adams to build dynamic models of the steel rope as well as the complete space docking lock system, then analyze the dynamic transmitting characteristics of steel rope in detail, and use the simulation

CIMdata PLM Industry Summary

results for design improvements.

Mr. Owens at Vanderbilt University was awarded MSC Nastran and Adams to improve the efficiency of the engineering process for defense products by a factor of 5X per DARPA's Adaptive Vehicle Make Project. MSC Nastran will be used to increase the efficiency of structural, modal, fatigue, buckling, and thermal modeling and analysis.

Mr. Masithulela at the University of South Africa was awarded Marc nonlinear FEA modeling and analysis software to assist with biomechanics engineering research, specifically in the area of computational modeling and experimental studies of cardiac mechanics after treated and non-treated myocardial infarction.

“MSC Software will continue initiatives aimed at improving the quality of engineering research through the application of computational modeling and analysis to projects that positively impact our society,” said Leslie Rickey, Sr. Director, Global Marketing at MSC Software. *“Science and engineering is changing the world and we are honored to collaborate with such esteemed researchers in support of their research and development initiatives.”*

They are accepting applications from researchers throughout the year, and plan to announce Q2 winners later this summer. Please visit, <http://www.mscsoftware.com/contents/Research-Assist-Program/> to learn more about the program, or apply today.

 [Click here to return to Contents](#)

Siemens PLM Software Ranked #1 in Fastest Growing Market Segment for 11 Straight Years

25 May 2012

Siemens PLM Software today announced that – for the eleventh year in a row – it has been recognized by leading PLM management consulting and research firm CIMdata, Inc. as the market presence leader in the industry's fastest growing category, collaborative Product Definition management (cPDm). CIMdata also ranked Siemens PLM Software as the market leader in the Digital Manufacturing market segment for the seventh straight year.

Siemens PLM Software addresses the cPDm category with its Teamcenter® portfolio, the world's most widely used digital lifecycle management software, while its Tecnomatix® portfolio is the most widely used software in the digital manufacturing market segment. CIMdata's findings are based on in-depth data and analysis of the PLM market and were announced by CIMdata in late March. They will also be detailed in their upcoming 2011 PLM Market Analysis Report.

“Our research shows that cPDm growth exceeded historic rates and will continue to expand at double digit growth rates for years to come. Siemens PLM Software continues to set the pace in this critical market segment,” said Peter Bilello, President of CIMdata. “Siemens PLM Software also continues to lead in Digital Manufacturing, with significantly more revenue than the next ranked provider, according

CIMdata PLM Industry Summary

to our research. To help future growth, Siemens PLM is taking steps to better leverage knowledge from across Siemens AG, one of the benefits of being part of a large global industrial company. With their increasing industry focus, the other industrial products business units within Siemens AG could provide some useful knowledge and candidates for PLM solution development and trials.”

According to CIMdata’s forecast, the cPDm market segment will experience a double digit five-year compound annual growth rate (CAGR) of 11.5 percent, resulting in a projected cPDm market size of approximately \$17 billion by 2016, based on total software and services investments. CIMdata’s forecast for Digital Manufacturing is estimated to remain steady with a five-year CAGR of seven percent. Overall, CIMdata reports that mainstream PLM is forecasted to grow at a five-year CAGR of over ten percent and continues to see growth as a key enterprise investment.

“To be ranked as the top PLM provider in these two critical areas of the market is a great honor, but to receive this honor for so many consecutive years is a testament to our team’s unwavering dedication to helping customers solve business problems and create real value,” said Chuck Grindstaff, president and CEO, Siemens PLM Software. “Our open business model, years of industry expertise and exceptional technology development will continue to serve as the foundation for our own business strategy, as we continue to offer solutions that help our customers make smarter decisions that result in better products.”

[!\[\]\(e33149aa5dfd0c44da8a965ac6e384f7_img.jpg\) Click here to return to Contents](#)

Siemens PLM Software Launches New Community College Best Practice Program to Revitalize U.S. Manufacturing

21 May 2012

Siemens PLM Software announces a new community college best practice program to enhance the effort to revitalize manufacturing throughout the United States. The program, developed in conjunction with Iowa Western Community College (IWCC), provides resources to interested community colleges and local manufacturers including a recommended associate’s degree curriculum, a guide for obtaining in-kind software grants to provide the technology needed for implementation, and a detailed white paper, titled [*Community Colleges Revitalize Manufacturing*](#), outlining the process for building a successful academic, government and business partnership for the program’s execution.

It is estimated that within five to 15 years the retirement of skilled baby boomers will create a workforce shortage of 10 million additional workers by 2020. Science, technology, engineering and math (STEM) job growth is projected to rise at twice the rate of the economy by 2018. The shortage of engineers in 2010 totaled 750,000 worldwide. With this in mind, manufacturers are finding it increasingly difficult to fill open positions with individuals who have advanced technology skills.

Jane Oates, assistant secretary for employment and training at the U.S. Department of Labor, stressed the importance of partnerships and the critical need for STEM education in her keynote address at the 2012 Siemens PLM Connection Americas User Conference earlier this month.

CIMdata PLM Industry Summary

“Strong partnerships between employers, training providers, and all levels of government are crucial to ensure our workforce has the skills and experience to remain a global manufacturing leader,” said Oates. “By focusing attention on specific training needs in areas like data management and high-tech manufacturing, these partnerships are helping community colleges expand into community career centers -- places that teach people skills that businesses are looking for right now -- and that’s a model the President and I fully support.” (President Obama referenced this topic during his 2012 State of the Union address.)

Siemens PLM Software and Iowa Western Community College

In February 2011, Siemens PLM Software announced the largest in-kind corporate contribution ever received by IWCC that enabled the college to successfully launch a design technology program. The program prepares graduates to enter the workforce in a high-demand career field or transfer to a four-year institution to complete a bachelor’s degree.

Through the successful IWCC and Siemens PLM Software partnership, the new community college best practice program has been implemented. The program provides a two-year, fast-track curriculum, developed by an advisory board of academia and industry, with an emphasis on upgrading incumbent worker skills as well as training dislocated and minority-categorized workers. The curriculum introduces individuals to product design and development software technology used by many of the world’s leading manufacturing, architectural and construction companies.

“Now community colleges around the nation have a proven blueprint to meet the needs of local employers and prepare local students for high-paying careers in design technology,” said Dr. Dan Kinney, president, IWCC.

“As the baby boom generation retires and product complexity continues to grow, students who are able to use PLM technology are expected to be highly recruited,” said Bill Boswell, senior director, Partner Strategy, Siemens PLM Software. “We are delighted to have had Assistant Secretary Oates present with us at our Americas User Conference to reinforce the need for STEM education and the importance of practical industry, academic, government partnerships.”

To find out more about the best practice new community college program, register to receive the [Community Colleges Revitalize Manufacturing](#) white paper.

GO PLM Program

Siemens PLM Software’s Global Opportunities in PLM leads the industry in the commercial value of the in-kind grants it provides and brings together four complementary community involvement programs focused on academic partnership, regional productivity, youth and displaced worker development and the PACE (Partners for the Advancement of Collaborative Engineering Education) program. GO PLM provides PLM technology to more than one million students yearly at more than 11,000 global institutions, where it is used at every academic level – from grade schools to graduate engineering research programs. For more information on GO PLM and the partners and programs it supports

visit www.siemens.com/partners/goplms.

 [Click here to return to Contents](#)

SpaceClaim Joins 3D PDF Consortium as Founding Member

21 May 2012

SpaceClaim announced today at the Collaboration and Interoperability Conference (3DCIC) that the company has become a founding member of the [3D PDF Consortium](#). The consortium is holding its first annual meeting at the 3D CIC meeting this week.

“We are pleased to welcome SpaceClaim to our membership,” said David Opsahl, Executive Director of the 3D PDF Consortium, “As a true innovator in the CAD space, and as a leader in providing 3D Direct Modeling solutions. Their experience in delivering cost effective and easy-to-use 3D tools to the product development, engineering, and manufacturing communities is a welcome addition to our efforts in promoting 3D PDF as an open standard for visualization, collaboration, data exchange, and the long-term archiving of 3D data.”

“We look forward to supporting the efforts of the 3D PDF Consortium,” said Chris Randles, President and CEO of SpaceClaim, “as it seeks to communicate the benefits of 3D PDF, and drive its adoption as a standard in engineering and manufacturing. SpaceClaim is an innovator in 3D design, and the Consortium’s goals perfectly align with our own strategy. SpaceClaim’s is CAD-neutral, and our goal is to expand the market for 3D by providing easy-to-use tools that can create and edit any kind of 3D data – even formats that are normally seen as limited to visualization – thereby eliminating many of the headaches associated with traditional, proprietary CAD systems”

About the 3D PDF Consortium

The 3D PDF Consortium is a community of software providers, systems integrators, government agencies, and businesses dedicated to achieving 3D ubiquity by leveraging the PDF platform. Our members look to the 3D PDF Consortium to demonstrate the success of these solutions within the market and promote 3D PDF as a solution to improve business results. The 3D PDF Consortium mission is to promote 3D PDF adoption through demonstrating best practices, providing technical input to the standards process, and generating awareness of the power of 3D-enabled PDF to solve a multitude of communication and collaboration challenges across various industries. For more information on the 3D PDF Consortium, please visit <http://www.3DPDFConsortium.org>

 [Click here to return to Contents](#)

Synopsys Announces Aart de Geus and Chi-Foon Chan to Become Co-CEOs

23 May 2012

Synopsys, Inc. announced that Chairman of the Board and CEO Aart de Geus and President and COO

CIMdata PLM Industry Summary

Chi-Foon Chan will become co-CEOs, effective immediately. Appointing Dr. Chan as co-CEO formally recognizes the contributions he has made in co-leading Synopsys for more than 10 years. Drs. de Geus and Chan will continue to share responsibility for managing the company, and the organizational structure and responsibilities will remain the same.

"Chi-Foon and I have worked successfully as a close-knit team for over a decade to help elevate Synopsys into its present leadership position," said de Geus. "Synopsys has excellent technical, market and financial strengths, as well as a management team capable of scaling the company for continued growth, portfolio broadening and globalization. Explicitly sharing the CEO position is both galvanizing and timely as we now focus on setting the company's direction for the next decade of growth and customer focus."

"I am excited about addressing the opportunities that we see ahead for our company," said Chan. "Synopsys has many talented employees who are dedicated to helping our customers achieve their goals. Building on the entrepreneurial spirit of our management, the execution strength of our worldwide teams, and the healthy technical and economic position of the company, Aart and I look forward to leading the company into its next phase of customer impact and growth."

Chan joined Synopsys in 1990 as vice president of applications and services from NEC Corporation USA, where he was general manager of the microprocessor group. Over the years, he pioneered many aspects of the company including the initiation of Synopsys' IP business. He was appointed president and chief operating officer in 1998, at which time he also joined the Synopsys Board of Directors.

[!\[\]\(2de14ecdac8f3bd4221dec5cc1fcc44b_img.jpg\) Click here to return to Contents](#)

Synopsys Honors Accellera Systems Initiative with 2012 Tenzing Norgay Interoperability Achievement Award

24 May 2012

Synopsys, Inc. announced that Accellera Systems Initiative will receive Synopsys' twelfth annual Tenzing Norgay Interoperability Achievement Award for advancing industry standards that enable interoperable system design flows.

The Accellera Systems Initiative was formed in December 2011 through the merger of Open SystemC Initiative (OSCI) and Accellera. Since 2000, the two organizations have developed standards that are widely used in the semiconductor industry; Accellera developed SystemVerilog, Unified Power Format (UPF) and IP-XACT; and OSCI developed SystemC and TLM-2.0. These standards are underlying formats that enable interoperability among design and verification tools, allowing engineers to go from system level design to final signoff. With large overlap in their membership and the need to collaborate to enhance current standards for increasing complexity of future designs, the two organizations merged in 2011.

"We are honored to accept the Tenzing Norgay Interoperability Achievement Award," said Dr. Shishpal

CIMdata PLM Industry Summary

Rawat, Accellera Systems Initiative chair. "We continue to strive for developing standards that enable interoperability across the entire design flow. The new organization will offer uniform policies and procedures leading to operational efficiencies in developing and promoting EDA and IP standards across the entire design and verification flow."

In recent years, the user community has sought solutions that demanded greater interaction between OSCI and Accellera standards, namely SystemC and SystemVerilog respectively. With significant similarities in the two organizations' membership and in their goals of taking standards through IEEE for broader adoption around the world, it became clear that the combined organization could serve the user community more efficiently. As a result, all of the standards development effort will be done in technical sub-committees governed by one set of policies and procedures, and following a uniform IP Rights policy. The streamlined development process will provide for better standards, which will enable interoperable tools and comprehensive methodologies for system and system-on-chip (SoC) designers.

"OSCI and Accellera have played important roles in developing open, inclusive standards for system and SoC designers," said Rich Goldman, vice president of corporate marketing and strategic market development at Synopsys. "We applaud their merger to broaden the member collaboration under one single organizational umbrella."

About the Tenzing Norgay Interoperability Achievement Award

The Tenzing Norgay Interoperability Achievement Award was established by Synopsys to recognize EDA providers who collaborate on interoperable design flows that benefit the user community. The award is presented annually to organizations that have surpassed common levels of interoperability, have contributed to overall industry advancement and have helped provide a new view of the future for EDA interoperability. Named for the crucial role that Sherpa Tenzing Norgay played in the first successful attempt to reach the summit of Mount Everest in 1953, the Interoperability Achievement Award recognizes achievements that are critical to a designer's success.

About Accellera Systems Initiative

Accellera Systems Initiative is an independent, not-for-profit organization dedicated to create, support, promote and advance system-level design, modeling and verification standards for use by the worldwide electronics industry. The organization accelerates standards development, and as part of its ongoing partnership with the IEEE, its standards are contributed to the IEEE Standards Association for formal standardization and ongoing change control. For more information, please visit www.accellera.org. For membership information, please email membership@accellera.org.

 [Click here to return to Contents](#)

Tecplot Inc. Named a Finalist for the 2012 Red Herring Top 100 Americas Award

23 May 2012

Tecplot Inc. announced today it has been selected as a finalist for Red Herring's Top 100 Americas award, a prestigious list honoring the year's most promising private technology ventures from the North

CIMdata PLM Industry Summary

American business region.

The Red Herring editorial team selected the most innovative companies from a pool of hundreds from across North America. The nominees are evaluated on both quantitative and qualitative criteria, such as financial performance, technology innovation, quality of management, execution of strategy, and integration into their respective industries.

This unique assessment of potential is complemented by a review of the actual track record and standing of a company, which allows Red Herring to see past the “buzz” and make the list a valuable instrument for discovering and advocating the greatest business opportunities in the industry.

“We are proud to be selected as a finalist for this prestigious award,” said Rich Stillman, president and CEO of Tecplot. “Our track record of innovation, most recently with the introduction of Tecplot Chorus, and our dedication to our 3,600 customers around the world make it possible for us to receive this kind of industry recognition.”

"This year was very rewarding," said Alex Vieux, publisher and Chairman of Red Herring. "There are so many great companies producing truly innovative and amazing products and technologies. We had a very difficult time narrowing the field and selecting the Finalists from such a group of future stars. Tecplot shows great promise therefore deserves to be on the short list. Now we are faced with the difficult task of selecting the Top 100 winners.”

The Finalists are asked to present their winning strategies at the Red Herring Americas Forum in Santa Monica, California, May 21-23, 2012. The Top 100 winners will be announced at a special awards ceremony the evening of May 23 at the event.

 [Click here to return to Contents](#)

TraceParts Opens Brazilian Office

22 May 2012

TraceParts today announced the creation of TraceParts Brazil to locally support and develop its complete range of part catalog activities. Based in Belo Horizonte, capital city of the industrial region of Minas Gerais, this new entity will be led by Fábio Lúcio Del Rio who was previously acting as TraceParts Brazilian exclusive business partner within the company GPL.

TraceParts Brasil will be selling innovative part catalog solutions and other online marketing services to Brazilian part manufacturers to help them boost the visibility of their product data through their publishing on www.TracePartsOnline.net and on TraceParts affiliated Publishing Network. TracePartsOnline.net is a leading engineering portal offering over 100 million free parts available as 3D CAD models in tens of different neutral and native formats and it has over 1.3 million registered users worldwide totaling more than 5 million page impressions each month.

“Business opportunities related to electronic part catalogs and more generally 3D Marketing Services are very strong here in Brazil and we clearly want to strengthen our leading position in that area.” explained Gabriel Guigue, TraceParts Managing Director. “Even though online marketing tools such as our 3D part catalogs can be operated from virtually anywhere, our experience shows much higher and quicker adoption rates when supported locally.”

“Brazilian engineers and technicians are our second fastest growing user community after China so it makes a lot of sense to expand our local presence here”, said Fábio Lúcio Del Rio, TraceParts Brasil General Manager. “Time to market and productivity gains are critical to every Brazilian CAD user so TraceParts free 3D catalogs are a unique design resource to help them concentrate on their real added value when designing new machines or tools.”

About TraceParts

TraceParts is a leading digital engineering content company, offering customers progressive business solutions through powerful web based products and services. TraceParts helps customers improve marketing efficiencies by increasing the value of their existing digital product data. The TracePartsOnline.net CAD portal is freely available to millions of CAD users worldwide.

For more information about TraceParts, please visit www.traceparts.com

 [Click here to return to Contents](#)

Events News

3D Systems Brings New 3D Printers to RAPID

21 May 2012

3D Systems Corporation announced today that it will showcase its latest 3D content-to-print products and services at RAPID 2012, May 23 -- 24 at the Hyatt Regency hotel in Atlanta, Georgia, booth 160.

3D Systems will demonstrate its unmatched portfolio of 3D printers, including its eight new ProJet(TM) 3500 printers that offer ultra-high definition and precision wax printability. Productivity and performance will be highlighted through its ProJet(TM) 6000 that combines push button simplicity with real SLA(R) part performance and its just announced, full color ZPrinter(R) 850, boasting the largest print area in its class.

3D Systems will display its latest on demand parts services and its personal color printers including its Cube(TM) home printer, 3DTouch(TM) and ProJet(TM) 1500, bringing together complete ideation-to-production capabilities for professionals and consumers.

"We are ecstatic to share our unparalleled portfolio of products and services with RAPID attendees,"

CIMdata PLM Industry Summary

said Cathy Lewis, Vice President, Global Marketing for 3D Systems. "From the highest definition to speed, from full color to unrivaled part performance, we are democratizing creativity through access to affordable 3D printers, compelling 3D content and on demand parts services for the benefit of our growing global customer base."

More information on the company is available at www.3DSystems.com .

 [Click here to return to Contents](#)

ADT Previews TURBOdesign Volute Module at Turbo Expo 2012

17 May 2012

Advanced Design Technology (ADT) will exhibit in Stand 1902 at the American Society of Mechanical Engineers (ASME) Turbo Expo 2012, presented by the International Gas Turbine Institute (IGTI), June 11-15 in Copenhagen, Denmark. ADT will preview its new TURBOdesign Volute module and demonstrate new 3D inverse design capabilities soon to be available in the TURBOdesign Suite.

According to conference organizers, Turbo Expo is the world's premier congregation of gas turbine professionals, and this year's gathering will be one of the largest ever in Europe. In addition to the usual symposia and forums related to the latest in gas turbine technology, research, development, and application, the IGTI community has broadened the program scope to include wind and steam turbine technology.

"With our latest enhancements to TURBOdesign Suite, ADT continues to drive the application of 3D inverse design methodology to quickly make engineers productive with accurate, highly-efficient turbomachinery designs," said Professor Mehrdad Zangeneh, founder and managing director of ADT. "We are most pleased to demonstrate advances made to our TURBOdesign Suite modules including new modules for preliminary design, automatic optimization and volute design."

TURBOdesign Volute is this year's ADT product highlight. Most of centrifugal turbomachinery components suffer from severe performance penalties at off-design conditions. Many of these losses, especially at higher-than-design point flow-rates, are happening in the volute itself. It is therefore normal practice for many companies, to oversize the volute in order to minimize these losses. TURBOdesign Volute offers a superior alternative.

Efficiency

ADT developed TURBOdesign Volute specifically to address requirements for more efficiency and more compact centrifugal turbomachinery packages. The innovative 2D inverse design approach—compared to the traditional one dimensional (1D) method—for sizing of the volute allows users to specify flow and velocity variations within the circumference and build the volute with conventional or arbitrary cross-sections.

Design Time Savings

ADT's software engineers also have significantly enhanced the TURBOdesign Volute output format. In minutes, TURBOdesign Volute generates clean, smooth and ready-for-meshing Initial Graphics Exchange Specification (IGES) surface files of complete volutes, saving up to two weeks of computer aided design (CAD) work.

ADT's engineers will be at Stand 1902 to demonstrate TURBOdesign Volute as well as other new feature enhancements to TURBOdesign Suite 5.1 for added optimization and better preliminary designs as well as better know-how transfer between projects and design teams, significant design time reduction, higher performance and noise reduction.

Visit ADT during Turbo Expo 2012, contact us at +44 (0)20 7299 1170 or go to the company website to arrange a demonstration of unique 3D design and analysis codes.

About Advanced Design Technology

Advanced Design Technology (ADT) is a global leader in the development of advanced turbomachinery design methods, which help not only to shorten development time but also improve the performance of turbomachinery components. ADT's aim is to put designers in direct control of the aerodynamic design and to shorten considerably the design time and time to market for a range of turbomachinery products. ADT's clients, who represent some of the leading global players in the aerospace, automotive, power generation and marine fields, have achieved significant returns on investment in terms of reduction in design times, higher performance and ease of know-how transfer among different design teams and projects. For more information, call +44 (0) 20 7299 1170 or go to: www.adtechnology.co.uk.

About TURBOdesign Technology, Inc.

Founded in 2011, TURBOdesign Technology, Inc. (TDT) is the exclusive U.S. distributor for the Advanced Design Technology (ADT) turbomachinery design software, TURBOdesign Suite. TURBOdesign Technology is headquartered in New York, N.Y. For more information, call (212) 837-7947 or go to: www.turbodesign-tech.com.

 [Click here to return to Contents](#)

Aras to Present at 2012 Collaboration & Interoperability Congress

23 May 2012

Aras® today announced that the company will present at the 2012 Collaboration & Interoperability Congress (CIC) Conference. CIC addresses strategies, opportunities and solutions for improving innovation in global product development, manufacturing, logistics and support through improvements in collaboration and interoperability. Now in its 11th year, the CIC event has rapidly grown into an essential forum for executives, managers, senior engineers and IT vendors.

CIMdata PLM Industry Summary

CIC 2012 takes place May 21 - 23 at The Inverness Hotel and Conference Center, in Denver, Colorado USA. John Sperling, Director of Product Management at Aras, will present on Integrating PLM Visualization with Secure Social to deliver a new level of global collaboration. Central to the discussion will be the advent of 3D-PDF, which brings together new enterprise social capabilities in a highly secure manner to allow dramatic process transformation.

As a founding member of the 3D PDF Consortium, Aras will participate in the organization's first annual meeting, which is being held in conjunction with CIC. For more information on the 3D PDF Consortium, please visit www.3DPDFConsortium.org

 [Click here to return to Contents](#)

Cimatron Partners with Mitsubishi Machine Tools in Brazil

23 May 2012

Cimatron Limited today announced that its CimatronE software will be powering the Mitsubishi Machine Tools' demonstration at the Feira da Mecanica trade show.

"Cimatron values this opportunity to demonstrate how our software is highly effective in milling parts, both simple and complex," said Alexandre Censi, Cimatron's country manager for Brazil.

"Aside from CimatronE's large variety of CAD and NC programming functionalities for molds, dies and discrete production, the software also has some of the most robust post-processors on the market.

"The software offers a rich library of post-processors that can quickly and accurately power practically all 3-, 4- and 5-axis machines, both positioning and continuous, as well as all leading controllers.

"CimatronE also maximizes the power of machines through its range of functionalities and milling strategies, including high speed machining and high volume material removal."

The Mitsubishi Machine Tools booth at Feira de Mecanica (booth G05) will feature several machines that will be using CimatronE for live demonstrations, showing the milling of actual parts.

For more information on Cimatron's activities in Brazil, contact: Alexandre Censi
Email: AlexC@Cimatron.com Phone: +55-11-8272-8512

 [Click here to return to Contents](#)

Delcam to Show Faster Tooling Design and Machining at Die & Mould China

24 May 2012

CIMdata PLM Industry Summary

Delcam will show how the 2012 versions of its PowerSHAPE CAD software and its PowerMILL CAM system can speed the design and manufacture of all types of tooling at the Die & Mould China exhibition to be held in Shanghai from 29th May to 3rd June. The programs allow toolmakers to increase their productivity at all stages of any project, so reducing costs and shortening lead times, as well as ensuring the highest quality in the finished tool and all components produced from it.

Delcam has supplied its systems to Chinese toolmakers for more than fifteen years and now has more than 2,000 customers in the country. These customers include the toolmaking departments in some of China's largest companies in the automotive, aerospace, electrical appliance and footwear industries, as well as large numbers of subcontract manufacturers of moulds, press tools and die-casting equipment.

The faster mould design has been made possible by the incorporation within PowerSHAPE of a range of direct modelling options focussed on design for manufacture, in particular on preparing product designs for the development of moulds and other types of tooling. Full details, including video demonstrations of the new functionality plus the ability to download an evaluation version, are on the PowerSHAPE 2012 Learning Zone – www.delcam.tv/ps2012/lz.

The direct modelling functionality that has been added will enable tooling designers to tackle all the common problems that they find in product designs, such as insufficient draft or inappropriate fillet sizes. It is faster to use direct modelling than surface modelling for these types of modification so its use can shorten the overall time needed to produce the tools. In addition, the new options have been made as accessible as possible by enhancing existing commands rather than grouping them in a separate area of the software.

Together with the extensive data translation and data repair options already available in PowerSHAPE, the addition of direct modelling gives a unique range of capabilities to tooling designers, whether they are working with moulds, press tools or die-casting equipment.

The 2012 R2 version of PowerMILL includes new and enhanced strategies for both roughing and finishing. Full details of both the 2012R1 and R2 releases, including videos of the new functionality, can be seen on www.delcam.tv/pm2012/lz.

The most important of the new strategies is step cutting within area clearance. Modern roughing tools are capable of removing material more quickly by using larger stepdowns. The disadvantage of this approach is that large terraces can be left on the part. These steps can be removed by rest machining with a smaller tool.

An alternative approach is to step back up the terrace with the existing large tool, adding extra cuts at intermediate levels. This results in more material being removed, using the same tool within the same toolpath. The rate of material removal can be optimised by increasing the feed rate automatically as the depth of cut gets smaller. This reduces the overall machining time.

CIMdata PLM Industry Summary

Another enhancement produces a more efficient result when using automatic verification on a toolpath to prevent a collision by the shank or the toolholder. In the previous versions of PowerMILL, the tool would be retracted to a safe height whenever a collision was possible and then returned to the part once it was safe to continue machining. Now, PowerMILL generates a continuous toolpath that removes as much material as possible, while still avoiding any collisions. The elimination of the retract moves shortens machining times and gives an improved surface finish, while the continuous cutting reduces the change of load on the tool so increasing its life.

Work has also continued to improve the macro language within PowerMILL that can be used to automate any routine or repetitive calculations, for example when producing a series of moulds for different products of similar size and complexity. A new macro debugger has been added that makes it easier and quicker to identify any errors in a macro. Furthermore, the creation and editing of larger, more complex macros has been made easier with a new option to set breakpoints within the macro and the ability to view the contents of the variables in a separate watch window.

 [Click here to return to Contents](#)

EVE to Demonstrate ZeBu's Expanded Capabilities at 49th Design Automation Conference

23 May 2012

WHO: EVE, the leader in hardware/software co-verification

WHAT: Will showcase its ZeBu system-on-chip (SoC) hardware-assisted verification platform at the 49th Design Automation Conference in Booth #1926

WHEN: Monday-Wednesday, June 4-6, from 9 a.m.-6 p.m.

WHERE: Moscone Center, South Hall, San Francisco.

Continuous demonstrations will highlight new software to expand ZeBu's capabilities, including power-aware verification, post-run debugging, low-power and Flash memory models, and electronic system level (ESL) tool interfaces.

Also being demonstrated is a new e-zTest Ethernet validation platform, a transaction-based environment for high-speed validation of Ethernet functions in network routers, switches and controllers, and SoC application specific integrated circuits (ASICs) containing Ethernet ports.

To register for a demonstration or for more information about EVE and its hardware/software co-verification platforms, go to: www.eve-team.com . Details on EVE's DAC events can be found at: www.eve-team.com/documents/DAC2012/events.html

DAC's website location is www.dac.com

About EVE

EVE is the worldwide leader in hardware/software co-verification solutions, offering fast transaction-based co-emulation and in-circuit emulation, with installations at five of the top six semiconductor companies. EVE products shorten the overall verification cycle of complex integrated circuits and electronic systems designs, and can be integrated with transaction-level ESL tools and software debuggers, target hardware systems, as well as Verilog, SystemVerilog and VHDL simulators. EVE is a member of OCP-IP, the MIPI Alliance and Si2, along with ARM, Mentor Graphics, Real Intent, Springsoft and Synopsys Partner programs. Its United States headquarters is located in San Jose, Calif. Corporate headquarters is in Wissous, France. Other offices are located in India, Japan, Korea, Taiwan and Tunisia. Visit EVE online at: www.eve-team.com .

 [Click here to return to Contents](#)

Geomagic Customers Showcase Geomagic Studio, Freeform and Geomagic Qualify Solutions for Rapid Design and Manufacturing at RAPID 2012

17 May 2012

Geomagic,® a company providing 3D technology solutions for digital reality, today announced that next week's RAPID 2012 event in Atlanta will feature customer work created using Geomagic's award-winning suite of industrial products for 3D design, reverse engineering, surfacing and inspection. Speakers will be prominently featuring innovative applications using Geomagic's solutions in talks on;

- “Additive Manufacturing in Medicine Requires a Multidisciplinary Approach,” where Freeform®-designed custom implants will be showcased as part of a talk on the practical aspects of collaborations between hospital departments. Geomagic acquired Freeform, the market-leading 3D design solution for industries with organically-shaped products, from Sensable Technologies in April.
- “Heritage, Arts, and 3D Technologies,” where Quebec's Charles-Olivier Roy of Artisans du Passage will discuss the role of reverse engineering scan data in Geomagic Studio to produce an accurate version of a historical sculpture of local hero Francois de Gaston, knight of Lévis. Geomagic Studio 2012 is the industry's most intuitive and intelligent solution for transforming 3D scan data into highly accurate polygonal and native CAD models.
- “How Useful is That! What You Can Do with CT Scanning,” profiling Rus Emerick from Schneider-Electric on verification of parts with Geomagic Qualify 2012 software for quality inspection and analysis so users can see even hidden surfaces and assure their geometric integrity.

Sculptures and other fine arts projects digitally designed in Freeform will also be among the work at the Contemporary Art Gallery at RAPID 2012, further illustrating new frontiers in design and additive manufacturing being forged in fine arts, as well as manufactured products.

CIMdata PLM Industry Summary

Ping Fu, Geomagic's CEO, states: "Digital reality is taking us to new places as a civilization. At Geomagic, we have concentrated on breaking down the barrier between the physical and the visual worlds – scanning physical 3D objects and turning them into virtual objects for design modification and quality analysis. Sensable's products have a true 3D voxel engine, ideally suited for additive manufacturing, and provide the sense of touch. Together, our solutions can deliver the two most fundamental human senses to designers and manufacturers – the look and feel of an object – before it is actually produced." She adds, "From scan to final product, our solutions improve the 3D design and manufacturing process by allowing product designers to create and manufacture products with natural user experiences, and unrivaled productivity"

RAPID attendees can attend a special workshop on reverse engineering and data capture featuring Geomagic products, hosted by Giles Gaskell from Wenzel America and co-presented by Srdjan Urosevic with eQuality Tech on Tuesday, May 22 at the conference. Purchasers of Geomagic products can also take advantage of limited-time promotional pricing on product bundles for generating models used in reverse engineering, product design, rapid prototyping and analysis.

Geomagic is exhibiting in booths 200 and 320 at RAPID 2012, which takes place at the Hyatt Regency in Atlanta.

 [Click here to return to Contents](#)

GibbsCAM Helps Hardinge Show Off Product Line

21 May 2012

Gibbs and Associates, developer of GibbsCAM® software for programming CNC machine tools and a Cimatron company, announced its participation at the Hardinge Machine Technology Show, HMTS 2012, which will feature Hardinge lathes, machining centers, grinders, plus workholding and rotary products. Seminars by manufacturing technology experts will be held in morning and afternoon sessions on both days, while demonstrations by Hardinge's tooling and technology partners, including Gibbs and Associates, will be conducted throughout the event. The show will be held between 9:00AM and 4:30PM, on June 6-7, at Hardinge Headquarters, One Hardinge Drive, Elmira, New York.

Gibbs and Associates will demonstrate GibbsCAM's support for the entire line of Hardinge CNC turning and milling machines. Visitors will see GibbsCAM's ease of CNC programming – featuring the various options available for generating a machining process, enabling users to program the way they want, unrestricted by interface or software limitations – plus GibbsCAM's integrated toolpath verification and machine-tool simulation.

"Throughout our history, we have supported the full line of Hardinge cutting machines, and this Hardinge show provides us with another opportunity to demonstrate our superior capabilities," said Bart Ehlers, Gibbs' Regional Distribution Manager. "We have worked together to deliver complete solutions

CIMdata PLM Industry Summary

to our customers, in various industries, for nearly 30 years. We look forward to another opportunity to demonstrate the superiority of GibbsCAM's ease-of-use, capability, speed and productivity with Hardinge products."

In addition to its modular suite of CAM software, Gibbs and Associates maintains an extensive library of more than 11,000 unique, error-free post-processors, including post-processors for all of the Hardinge CNC lathes and machining centers.

About Hardinge Inc.

Hardinge is a global designer, manufacturer and distributor of machine tools, specializing in SUPER-PRECISION(TM) and precision CNC Lathes, high performance Machining Centers, high-end cylindrical and jig Grinding Machines, and technologically advanced Workholding & Rotary Products. The Company's products are distributed to most of the industrialized markets around the world with approximately 74% of the 2011 sales outside of North America. Hardinge has a very diverse international customer base and serves a wide variety of end-user markets. This customer base includes metalworking manufacturers which make parts for a variety of industries, as well as a wide range of end users in the aerospace, agricultural, transportation, basic consumer goods, communications and electronics, construction, defense, energy, pharmaceutical and medical equipment, and recreation industries, among others. The Company has manufacturing operations in the United States, Switzerland, Taiwan, and China. Hardinge's common stock trades on NASDAQ Global Select Market under the symbol, "HDNG." For more information, please visit <http://www.hardinge.com>.

 [Click here to return to Contents](#)

Si2 Announces Member Demonstrations at the Design Automation Conference

22 May 2012

Seven companies will be demonstrating significant progress advancing design flow interoperability in the Silicon Integration Initiative (Si2) Booth #1214 at the Design Automation Conference on June 4-6, at the Moscone Center in San Francisco, CA. These companies will be showing how Si2 standards developed by the various Si2 coalitions can provide innovative approaches to critical IC design flow issues. Following are descriptions of each company's demonstrations, as provided by them.

Cadence Design Systems: will demonstrate its Silicon Realization flows, which use an OpenAccess infrastructure and leverage proven Virtuoso and Encounter technologies to maximize productivity and predictability in today's complex design projects. Witness the seamless integration of analog and digital domains with a mixed-signal design, implementation, and verification solution. Learn more about a robust and advanced low-power solution, proven to dramatically reduce overall power consumption in customer silicon and total turnaround time of chip design.

ICScope: will demonstrate its complete Analog and mixed-signal design platform. The analog design environment is native OA based and provides powerful schematic and layout editors. While the design

CIMdata PLM Industry Summary

environment is fully interoperable with popular simulation and verification tools, the demonstration will bring out the integration with in-house circuit simulation, top level routing, physical verification and extraction tools. The demo will highlight the integration with internal tools, and several ease of use and productivity features.

Invarian, Inc: will demonstrate their line of physical sign-off and analysis products built entirely with OpenAccess. With the performance and capacity of OpenAccess, the Invarian line of products (Pioneer 2D and Frontier 3D) is capable of running full chip analysis for Power, IR-drop, Temperature, and reliability. Demo will include demonstration of all these capabilities in GUI environment. Demonstration of analysis flow will provide more details on the ease of integration and compatibility for OA based tools by Invarian. Invarian will also be located in Suite 317.

Nangate: will showcase two major product focuses. First is the newest generation of Library Creator Platform that will support the most advanced process technology down to 22nm, with a very effective productivity increase through its support of process and layout migration. Running on Open Access infrastructure, the demonstration will explore different challenges and solutions demanded by the most complex and advanced cell layout. The other product demonstration will be the Design Optimizer (NDO), a patented analysis and netlist optimization technology that will result in significant design performance improvement. Both demonstration and product roadmap will be discussed at DAC. Scheduling is highly recommended in advance.

Pulsic: will demonstrate the Unity Analog Router, a GUI based, guided, constraint driven flow for automating analog layout and producing hand crafted quality layout results that analog designers would create if laid out manually. The Unity Analog Router provides analog designers with an easy to use flow that complements a skilled analog designer's experience, enabling fast device preparation and routing of hierarchical analog blocks. The intuitive set up minimizes the learning curve so analog designers can reduce layout time for large hierarchical analog blocks to a few days. The Unity Analog Router includes signal flow routing, DRC check and fix for checking and correcting DRC errors, symmetry and near symmetry routing, net tapering based on pin current density, common centroid group routing, shielding and comprehensive editing capabilities.

Spectral Design & Test: will demonstrate the industry's first Memory Development Platform that will lead to a >50% improvement in design productivity. All aspects of tiling, electrical analysis, characterization & view creation are consolidated into a unified environment. The MemoryCanvas™ module is a graphically driven floorplanner that encapsulates the memory designers compilation intent into a concise OpenAccess database. Schematics, LEF, GDSII, Gate level Verilog & critical path netlists are automatically generated based on the designer's inputs. The MemoryTime™ module is a modeling, circuit analysis & characterization solution built on OpenAccess, to automatically generate RAM/ROM/CAM models, design margin statistical reports, datasheets and timing models. See how MemoryCanvas, MemoryTime complemented with MemoryIP, seamlessly interfaces with our EDA partners solutions. The demonstration will showcase a real life example of a complex memory design starting from specification, architecture development, compiler development to final deployment.

CIMdata PLM Industry Summary

Synopsys: will demonstrate Galaxy™ IC Compiler Custom Co-Design implementation flow for a unified cell-based and custom implementation solution featuring advanced autorouting technology. Learn how Galaxy Custom Designer® tight integration with IC Compiler provides seamless full custom editing of IC Compiler designs at any stage of the flow. Custom Designer is built natively on OpenAccess to provide the industry's most open, standards-based custom design solution.

The Annual Si2 Open Reception will be held on June 4, 2012 from 4:30PM - 6PM in Moscone Center, Room 303. Refreshments will be provided. You do not have to be a member to attend the reception. To register for this event, click here: http://www.si2.org/events_register/dac_2012_registration.php.

Other Si2 DAC activities include the Co-Located Event "Si2 Roundup@DAC." All sessions are free of charge, and more information with agendas can be found at: <http://www.si2.org/?page=1525>.

About Si2

Si2 is the largest organization of industry-leading semiconductor, systems, EDA and manufacturing companies focused on the development and adoption of standards to improve the way integrated circuits are designed and manufactured, in order to speed time-to-market, reduce costs, and meet the challenges of sub-micron design. Now in its 24th year, Si2 is uniquely positioned to enable timely collaboration through dedicated staff and a strong implementation focus driven by its member companies. Si2 represents nearly 100 companies involved in all parts of the silicon supply chain throughout the world. See www.si2.org.

 [Click here to return to Contents](#)

SPRING Technologies to showcase NCSIMUL SOLUTIONS at IMTS 2012

21 May 2012

SPRING Technologies Inc., the software vendor of the popular NCSIMUL SOLUTIONS dedicated to CNC machine tools and shop floor processes, welcome visitors to **IMTS 2012, booth E-3267** to learn more about its productivity-enhancing products. Its comprehensive solutions portfolio includes:

- NCSIMUL to simulate and optimize NC programs (machining, drilling, riveting)
- OPTITOOL that optimizes cutting conditions
- NCDOC for editing and publication of manufacturing documentation
- POSTPRO, a library of more than 1,000 NC postprocessors
- NCSIMUL Player, a dedicated and collaborative tool to view and share NC program simulation throughout the shopfloor

More about the Product Features and Benefits

NCIMUL 8.9 is a comprehensive machine simulation solution for simulating, verifying, optimizing and

CIMdata PLM Industry Summary

reviewing machining programs meant for CNC machines (machining, drilling, riveting). Three-dimensional graphics serve to avoid machining crashes while powerful algorithms and embedded process-based know-how enable cutting conditions optimization, and standardization of the shop floor documentation. NCSIMUL 8.9 verifies NC programs in three steps: investigates and corrects coding errors, simulates to locate and correct motion errors, and validates the part program. Many customers report that this utility is also a helpful training tool for new employees because the virtual sessions are short, easy to comprehend, and eliminate errors.

OPTITool analyzes cutting conditions, dramatically reduces “air cutting”, optimizes feed rates, and allows users to create better cutting strategies. The sum benefits are a reduction in the production cycle times, enhancement of cutting operations, and fast development of new G-code files for future applications.

NCDOC permits users to edit and publish technical documentation quickly, including customizable inspection reports; reference libraries; collaborative production content for customers, staff, and vendors with encapsulated movies.

The POSTPRO solution is one of the most helpful aspects of NCSIMUL SOLUTIONS. SPRING Technologies has developed more than 1,000 robust posts for all CNC controllers including Fanuc, Siemens, NUM, Heidenhain, Mazak, DMG, Fidia, and others. Our applications engineers have experience with all types of machine tools – linear or rotary axes, 5-axis milling and turning centers, 4-axis EDM machines, and specialized machine tools. Further, the company often creates custom postprocessors based on all of the universal generators that enable interfaces between the main CAD software and the machine tool’s control system.

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

 [Click here to return to Contents](#)

Synopsys Hosts Special Events with Industry Leaders at DAC 2012

24 May 2012

Synopsys, Inc. will host several special events at the Design Automation Conference, June 3 - 7 in San Francisco, Calif. The events will feature speakers from leading semiconductor companies, IP providers, foundries and Synopsys. These technical experts will describe the best practices, tools and methodologies they're using to solve today's design challenges, as well as discuss the emerging trends and advanced technology that will enable the next 25 years of semiconductor innovation.

Synopsys DAC Events, Monday, June 4, 2012:

- **AMS Verification Luncheon: Boost Productivity Using Synopsys' AMS Verification**

CIMdata PLM Industry Summary

Solution

11:30 a.m. - 1:30 p.m., Marriott Hotel, Golden Gate Ballroom, Salon B

Industry leaders from AMD, ARM, GLOBALFOUNDRIES, Micron and NVIDIA share experiences using Synopsys' AMS verification solutions in some of today's most challenging designs.

- **IC Compiler Luncheon: Leading the Way to 20nm Design with Synopsys' IC Compiler™ Software**

11:30 a.m. - 1:30 p.m., Marriott Hotel, Golden Gate Ballroom, Salon A

Hear from experts in foundry, processor, wireless and consumer electronics companies, such as STMicroelectronics, GLOBALFOUNDRIES and Samsung, that have successfully met the 20nm design enablement challenge with IC Compiler.

- **Customer Insight Sessions: High-Performance, Gigahertz+ Success with Synopsys' Galaxy™ Implementation Platform**

2:00 p.m. with Samsung and 3:00 p.m. with NVIDIA, Moscone Convention Center East Mezzanine, Room 220

Technical experts will discuss the latest high-performance design trends, challenges and solutions. They'll share best practices and innovations in high-performance technology that help address Gigascale, Gigahertz+, low power and advanced geometry design challenges.

- **Synopsys' PrimeTime® Software Special Interest Group 2012 Dinner: Next-generation Hierarchical Timing Technology -- HyperScale**

6:00 p.m. - 8:30 p.m., Marriott Hotel, Golden Gate Ballroom, Salon A

At this event, you will see Synopsys' R&D team unveil the new underlying engines for its hierarchical timing technology, HyperScale. Industry experts will also share their experience with this innovative new technology, which demonstrated up to 10X faster and smaller full-chip timing analysis runs with signoff quality results matching flat analysis. Speakers include timing experts from LSI, NVIDIA, Samsung and Synopsys. The event will be moderated by Brian Bailey of *EE Times*. PrimeTime Ecosystem Partners will also be there, including ARM, Chip Estimate, eSilicon, Global UniChip Corp., Library Technologies, Nangate, Open-Silicon, Platform Computing, an IBM company, Runtime Design Automation, Samsung, SmartPlay, SpringSoft, Target Compiler Technologies, Univa and Z Circuit.

Synopsys DAC Events, Tuesday, June 5, 2012:

- **ARM, GLOBALFOUNDRIES, Samsung, Synopsys Partner Breakfast: Breaking through Barriers -- High-Performance and Energy-Efficient ARM Powered SoCs at 32/28nm and 20nm**

7:15 - 8:45 a.m., Marriott Hotel, Golden Gate Ballroom, Salon A

In this session, experts from ARM, GLOBALFOUNDRIES, Samsung and Synopsys will describe key design and manufacturing challenges facing designers at 32/28nm and 20nm and how through collaboration, the companies are addressing these challenges. The collaboration combines semiconductor manufacturing, EDA and IP enablement, shared cycles of learning and silicon

CIMdata PLM Industry Summary

proof-points to enable a complete silicon-proven design enablement and manufacturing-ready solution for optimized implementations of ARM Powered high-performance and energy-efficient SoCs.

- **Customer Insight Sessions: High-Performance, Gigahertz+ Success with Synopsys' Galaxy™ Implementation Platform**

10:00 a.m. with Cavium and 2:00 p.m. with Samsung, Moscone Convention Center East Mezzanine, Room 220

Technical experts will discuss the latest high-performance design trends, challenges and solutions. They'll share best practices and innovations in high-performance technology that help address Gigascale, Gigahertz+, low power and advanced geometry design challenges.

- **Verification Luncheon: SoC Leaders Verify with Synopsys**

11:45 a.m. - 1:45 p.m., Marriott Hotel, Golden Gate Ballroom, Salon A

Given the complexity of today's SoC designs, incremental tool improvements will not be sufficient to deliver the required order-of-magnitude boost to verification productivity. At this luncheon, AMD, Broadcom, Cavium, Freescale, Qualcomm and ST-Ericsson will share their views on what's driving SoC complexity and how their teams have achieved success. They'll also discuss the latest developments in verification. The event will be moderated by John Chilton, senior vice president of marketing and strategic development at Synopsys.

- **IPL Alliance Luncheon: Reaping the Benefits of iPDKs**

12:00 p.m. - 1:30 p.m., Marriott Hotel, Golden Gate Ballroom, Salon B

At the 6th Annual IPL Luncheon, presenters from multiple foundries will highlight the benefits of the Interoperable PDK (iPDK) standard and their experiences in developing and deploying foundry iPDKs. The IPL Alliance will also present an update on current and future IPL projects.

- **Customer Insight Session: Mixed-Signal SoC Design Success with the IC Compiler Custom Co-Design Solution**

4:00 p.m. with STMicroelectronics and Proteus Biomedical, Moscone Convention Center East Mezzanine, Room 220

Attend an informative session on Synopsys' mixed-signal SoC implementation solution and custom co-design methodology advancements. Learn how leading companies have successfully tackled difficult "big D/little A" mixed-signal physical design challenges using Synopsys' unified cell-based and custom implementation solution with IC Compiler.

 [Click here to return to Contents](#)

Vero Hosts Largest Ever Reseller Conference

21 May 2012

CIMdata PLM Industry Summary

Vero Software hosted their largest ever Global Reseller Conference following last year's merger of the Vero and Planit software groups which created the world's leading CAM specialist and third-largest CAD/CAM vendor. Located in Lisbon, Portugal, 171 delegates congregated to see the latest product developments, discuss future product direction and get an insight into the future business plans of the newly combined Vero Group.

Explaining the rationale behind the event, Richard Smith, Chief Executive says: "Our objective is to create the most successful reseller team across the world. We now have a number of key products that service different manufacturing sectors, but share common business drivers. Bringing our resellers together provides a platform to network, share successes and better understand the product positioning for each brand."

Highlights from the Edgecam brand conference included a review of the current release (2012 R2), Waveform Roughing, Advanced 5 axis and quill support (secondary z axis), plus a sneak preview of future developments including the addition of wire EDM technology and an exciting new workflow manager.

The VISI reseller network were provided with an in-depth look at VISI 20, due for release in September. The latest release includes new CAD tools for project collaboration and kinematic simulation plus a number of new ground breaking CAM developments such as new advanced roughing and rest machining algorithms.

The Alphacam team welcomed global resellers from as far afield as Australia, Japan and South Africa and presented the group with a strategic look at the 2013 product roadmap, an introduction to Waveform Roughing and a review of Alphacam Art -- an artistic application that automatically creates 3D relief models typically used in the woodworking and engraving industries.

Cabinet Vision resellers had a glimpse of the future with a review of the product roadmap and an early look at Cabinet Vision V8. There was great excitement over the CV self help community and detailed information on Screen-To-Machine Centre, along with managing machinery / tool vendor partnerships.

Finally, Radan successfully launched two new multi-axis laser products, RadM-ax and RadTube. Based on PEPS technology, RadM-ax is a sheet metal 5 axis laser CAM system developed specifically for the general engineering, automotive and aerospace industries. RadTube is a laser system for rotary and multi-axis cutting machines developed specifically for tube cutting industries. As well as all this, there was an overview of the new, fully integrated quoting product for sheet metal manufacture due for release later in the year.

Concluding, Simon Lee, Business Development Director says: "The size of the event truly underlines our position as the number one CAM centric company and offered our reseller network an opportunity to review the group product portfolio."

 [Click here to return to Contents](#)

Financial News

HP Reports Second Quarter 2012 Results

23 May 2012

HP second quarter fiscal 2012 financial performance

	Q2 FY12	Q2 FY11	Y/Y
GAAP net revenue (\$B)	\$30.7	\$31.6	(3%)
GAAP operating margin	7.2%	9.4%	(2.2 pts.)
GAAP net earnings (\$B)	\$1.6	\$2.3	(31%)
GAAP diluted EPS	\$0.80	\$1.05	(24%)
Non-GAAP operating margin	8.9%	11.3%	(2.4 pts.)
Non-GAAP net earnings (\$B)	\$1.9	\$2.7	(28%)
Non-GAAP diluted EPS	\$0.98	\$1.24	(21%)

HP today announced financial results for its second fiscal quarter ended April 30, 2012. For the quarter, net revenue of \$30.7 billion was down 3% year over year both as reported and when adjusted for the effects of currency.

GAAP diluted earnings per share (EPS) was \$0.80, down 24% from the prior-year period. Non-GAAP diluted EPS was \$0.98, down 21% from the prior-year period. Second quarter non-GAAP earnings information excludes after-tax costs of \$356 million, or \$0.18 per diluted share, related to amortization of purchased intangible assets, restructuring charges and acquisition-related charges.

"We are making progress in our multi-year effort to make HP simpler, more efficient and better for customers, employees, and shareholders," said Meg Whitman, HP president and chief executive officer. "This quarter we exceeded our previously provided outlook and are executing against our strategy, but we still have a lot of work to do."

Business Group Results

- Personal Systems Group (PSG) revenue was flat year over year with a 5.5% operating margin. Commercial revenue increased 3%, and Consumer revenue declined 4% while Workstations revenue was down 1% year over year. Desktop units were up 5%, notebook units were down 6% and total units were down 1%.
- Services revenue declined 1% year over year with an 11.3% operating margin. Technology Services revenue was flat year over year, Application and Business Services revenue grew 1% and IT Outsourcing revenue declined 3% year over year.
- Imaging and Printing Group (IPG) revenue declined 10% year over year with a 13.2% operating margin. Commercial hardware revenue was down 4% year over year with commercial printer units down 7%. Consumer

CIMdata PLM Industry Summary

hardware revenue was down 15% year over year with a 13% decline in printer units.

- Enterprise Servers, Storage and Networking (ESSN) revenue declined 6% year over year with an 11.2% operating margin. Networking revenue was up 2%, Industry Standard Servers revenue was down 6%, Business Critical Systems revenue was down 23%, and Storage revenue was up 1% year over year.
- HP Financial Services revenue grew 9% year over year driven by a 4% increase in net portfolio assets and a 5% increase in financing volume. The business delivered a 9.9% operating margin.
- Software revenue grew 22% year over year with a 17.7% operating margin, including the results of Autonomy. Software revenue was driven by 7% license growth, 17% support growth, and 72% growth in services. Autonomy saw a significant decline in license revenue.

To help improve Autonomy's performance, Bill Veghte, HP's chief strategy officer and executive vice president of HP Software, will step in to lead Autonomy. Veghte is an experienced software leader who will help develop the right processes and discipline to scale Autonomy and fulfill its promise. Mike Lynch, Autonomy's founder and executive vice president for Information Management, will leave HP after a transition period. The market and competitive positioning for Autonomy remain strong, particularly in cloud offerings.

Asset Management HP generated \$2.5 billion in cash flow from operations in the second quarter. Inventory ended the quarter at \$7.3 billion, with days of inventory up 2 days year over year to 28 days. Accounts receivable of \$16.6 billion was down 4 days year over year to 49 days. Accounts payable ended the quarter at \$12.9 billion, down 5 days from the prior-year period to 49 days. HP's dividend payment of \$0.12 per share in the second quarter resulted in cash usage of \$251 million. HP also utilized \$350 million of cash during the quarter to repurchase approximately 13 million shares of common stock in the open market. HP exited the quarter with \$8.7 billion in gross cash.

Outlook In connection with the restructuring efforts discussed in a separate press release issued today (<http://www8.hp.com/us/en/hp-news/press-release.html?id=1247078>), HP expects to record a pre-tax charge of approximately \$1.7 billion in fiscal 2012 that will be included in its GAAP financial results for that period. Of that amount, HP expects to record a pre-tax charge of approximately \$1.0 billion in its third fiscal quarter. The cash impact associated with the restructuring efforts is expected to be approximately \$400 million in fiscal year 2012. Through fiscal 2014, HP expects to record additional pre-tax charges approximating \$1.8 billion that will be included in its GAAP financial results for the applicable periods.

In May 2012, HP committed to a change in its PC branding strategy. As a result, HP has commenced an asset impairment analysis to determine the current value of the Compaq trade name acquired in 2002. Based on the preliminary results of that analysis, HP expects to record an impairment charge of up to approximately \$1.2 billion that will be included in its GAAP financial results for its third fiscal quarter. There will be no cash impact associated with the impairment charge.

CIMdata PLM Industry Summary

For the third quarter of fiscal 2012, HP estimates non-GAAP diluted EPS to be in the range of \$0.94 to \$0.97 and GAAP diluted EPS to be in the range of \$0.00 to \$0.03.

Third quarter fiscal 2012 non-GAAP diluted EPS estimates exclude after-tax costs of approximately \$0.94 per share, related primarily to the amortization and impairment of purchased intangible assets, restructuring charges, and acquisition-related charges.

For the full year fiscal 2012, HP now estimates non-GAAP diluted EPS to be in the range of \$4.05 to \$4.10 and GAAP diluted EPS to be in the range of \$2.25 to \$2.30.

Full year fiscal 2012 non-GAAP diluted EPS estimates exclude after-tax costs of approximately \$1.80 per share, related primarily to the amortization and impairment of purchased intangible assets, restructuring charges and acquisition-related charges.

To view the unabridged version of this press release visit:

<http://h30261.www3.hp.com/phoenix.zhtml?c=71087&p=irol-newsArticle&ID=1699267&highlight=>

 [Click here to return to Contents](#)

Mentor Graphics Reports Fiscal First Quarter Results

25 May 2012

Mentor Graphics Corporation today announced financial results for the company's fiscal first quarter ended April 30, 2012. The company reported revenues of \$247.9 million, non-GAAP earnings per share of \$.30, and GAAP earnings per share of \$.25. The company raised guidance for fiscal year 2013 non-GAAP earnings per share by \$.05 to \$1.37 and for GAAP earnings per share by \$.07 to \$1.20.

“Strength in our business continued in the first quarter, with record first quarter revenue and earnings,” said Walden C. Rhines, chairman and CEO of Mentor Graphics. “The release of our next-generation emulation platform during the quarter has attracted broad customer interest, and we have a very full sales funnel. We are also seeing increasing demand for our Calibre family of products at advanced process nodes, as the explosion of capacity at 28nm is driving significant design activity. With 20nm processes being certified now, and beginning production later in the year, we expect that the ongoing move to the 28nm and 20nm generations of technology will drive an exceptionally large increase in design activity. This will benefit Mentor and the whole electronic design automation industry through 2013.”

During the quarter, the company announced the availability of the Veloce®2 platform, the next generation of emulation solutions for the verification of electronic system and system-on-chip (SoC) designs. This included the announcement of a new environment called Veloce VirtuaLAB, giving verification engineers access to a full environment for verifying complex electronics systems prior to first silicon availability without requiring the building of hardware test systems. The company also announced the latest release of the PADS® desktop solution for PCB design, with new features

CIMdata PLM Industry Summary

addressing design-for-manufacturing analysis, high-speed and interactive routing. Additionally the quarter saw the latest release of the Questa® functional verification platform for complex SoC, ASIC and FPGA designs.

“Continued focus on cost controls, a favorable product mix, and better than forecasted profitability in the business have allowed us to raise earnings guidance for the year. We also reaffirm revenue guidance at \$1.1 billion for the year as we expect increased Veloce2 emulation shipments beginning in the second quarter as production capacity increases,” said Gregory K. Hinckley, president of Mentor Graphics. “We are pleased that we have achieved an operating margin in the first quarter that is already near our fiscal year target of 18% non-GAAP. With a record backlog at the start of the year and strong demand for our products at advanced process nodes, we remain confident in our outlook for the rest of the fiscal year.”

To view the unabridged version of this press release, visit:

http://www.mentor.com/company/news/upload/Q1FY2013-earnings_pdf

 [Click here to return to Contents](#)

Synopsys Posts Financial Results for Second Quarter Fiscal Year 2012

23 May 2012

Q2 2012 Financial Highlights

- Revenue: \$432.6 million
- GAAP earnings per share: \$0.14
- Non-GAAP earnings per share: \$0.53

Synopsys, Inc. today reported results for its second quarter of fiscal year 2012.

For the second quarter of fiscal year 2012, Synopsys reported revenue of \$432.6 million, compared to \$393.7 million for the second quarter of fiscal 2011, an increase of 10 percent.

"We delivered strong results in the second quarter, and are raising annual guidance to reflect both the robustness of our base business and the rapid integration of Magma," said Aart de Geus, chairman and CEO of Synopsys. "Electronic design automation is the key technology that enables the development of electronics around the world. Synopsys is leading the way – with state-of-the-art products and support, and the vision and resources required to help take our customers to the next level of success."

GAAP Results

On a generally accepted accounting principles (GAAP) basis, net income for the second quarter of fiscal 2012 was \$21.0 million, or \$0.14 per share compared to \$81.1 million, or \$0.53 per share, for the second quarter of fiscal 2011. Net income for the second quarter of fiscal 2011 included a one-time \$32.8

CIMdata PLM Industry Summary

million, or \$0.21 per share, tax benefit associated with a settlement with the IRS for audits for fiscal years 2006 through 2009. Net income for the second quarter of fiscal 2012 included \$30.2 million of costs associated with the acquisition of Magma Design Automation.

Non-GAAP Results

On a non-GAAP basis, net income for the second quarter of fiscal 2012 was \$78.5 million, or \$0.53 per share, compared to non-GAAP net income of \$68.5 million, or \$0.45 per share, for the second quarter of fiscal 2011.

Note that the second fiscal quarter financial targets provided by Synopsys on February 22, 2012 did not include the impact of the acquisition of Magma Design Automation. Reconciliation between GAAP and non-GAAP results is provided at the end of this press release.

The unabridged version of this press release can be viewed at:

<http://synopsys.mediaroom.com/index.php?s=43&item=1028>

 [Click here to return to Contents](#)

Implementation Investments

CrossControl AB Selects Aras Solution Suite Combined with Minerva EHT for Enterprise Product Lifecycle Management

25 May 2012

Aras® today announced that CrossControl AB, a manufacturer of industrial vehicle solutions, has selected the Aras PLM solution suite combined with Minerva's Electronic and High-Tech (EHT) solution for Product Data Management, Quality Planning, Issue Handling, Requirements Management, Project Management and more. High functionality, low risk and accelerated implementation were key factors in CrossControl's selection.

CrossControl develops industrial vehicle solutions for user interaction and management that put humans in control in critical environments. In selecting Aras, CrossControl joins the growing number of companies that recognize the value of Aras's open business model and extensive product capabilities. "The ability for us to download Aras and understand the full capabilities of the product was essential for us to mitigate risk. Further, the ability to extend Aras into many different areas without having to worry about additional modular costs was another point in Aras's favor," said Lars Olsson, Product Portfolio Manager at CrossControl AB.

To accelerate implementation and leverage industry best practices, the Company will implement Minerva's Electronic and High-Tech solution for Aras Innovator® "As a business, we are constantly looking to improve. When we saw the capabilities of the Minerva / Aras technology, combined with

CIMdata PLM Industry Summary

Minerva's industry experience and deep understanding of our business, we felt this was the partner and solution for us. We clearly see a difference from other vendors who still act as if PLM is just a way to manage mechanical drawings instead of a tool that integrates many aspects of product management for the whole company into the same environment," said Olsson.

"We at Minerva are excited to provide CrossControl with a comprehensive PLM solution that has the power and functionality to go beyond product information, providing benefits throughout the enterprise without being bound by the costs and restrictions of traditional PLM licensing models. Based on our successful collaboration to date, we are very confident that we can help CrossControl achieve their PLM and business objectives," said Leon Lauritsen, Director at Minerva.

About CrossControl AB

CrossControl AB provides technology that puts humans in control of vehicles in critical environments. CrossControl was founded in 1991 as a spin-off from John Deere's long-established forestry machine operations which had a large engineering and development centre in the region. The forestry sector in general and John Deere in particular, were pioneers in the deployment of electronic vehicle controls and soon recognized the importance of addressing human-machine interaction. With this experience and background, the company has evolved to bring knowledge and solutions to a broad range of industrial vehicle applications and businesses. For more information, please visit www.crosscontrol.com

About Minerva

Since 1996 Minerva has implemented Enterprise solutions in both PLM and ERP. Minerva has established itself as Europe's largest Aras implementation partner. Our customers value that we challenge their current ways of operating and that they are assisted in getting a better insight in the options available in order to reach these goals. At Minerva we not only help describing the customers' current state and the ways to reach the ultimate end goal, we also implement the systems to support the change management process. Minerva has also established themselves as large contributor to Aras in terms of provided different add-on capabilities. These add-ons are technical productivity tools, integrations and also full industry solutions. For additional information visit www.minerva-plm.com/aras/home

 [Click here to return to Contents](#)

Havok Enters Enterprise License Agreement with Kongsberg for Havok's New Simulation Technology

21 May 2012

Havok™ has entered into an agreement with Kongsberg, a Norway-based premier international supplier of defense and aerospace-related systems. The new contract will allow Kongsberg to utilize Havok's 3D full-featured simulation technology, including Havok Vision Engine, Havok Physics, Havok Destruction, Havok Animation, Havok AI, and Havok Script, as part of an effort to build high-quality, immersive simulation training systems for a wide range of training scenarios for their clients.

CIMdata PLM Industry Summary

"Kongsberg is a veteran defense and aerospace contractor driven by their dedication to develop best-in-class solutions for their clients and diligent in their third party technology acquisitions," said Cory Kumm, Director of Military & Simulation at Havok. "Following extensive investigation, prototyping and comparative evaluation of Havok technology our entire product portfolio was selected by Kongsberg to use as part of a common core technology infrastructure for simulation and training development across the company."

Kongsberg is already taking advantage of Havok technology on one of many projects under development that are due to be commercially delivered within only a few months of their technology acquisition. The first of many projects will bring entirely new technology and training capabilities to the market all within project timeline scope and budget.

"The extended feature set from Havok will enable us build a multitude of training systems to meet the specific requirements of our clients, from operator, driver and combat training to multi-player war gaming," remarked Torberg Fremnes, Product Manager, Simulation & Training at Kongsberg. "The ability to accomplish all of this with Havok's integrated technology allows us to save costs and deliver more programs with greater capability, due in part to the advanced technology and workflow of Havok in addition to efficiency savings from having a common core technology our company can leverage across all our programs."

Kongsberg will take advantage of Havok's updated simulation technology which incorporates new capabilities for simulation development. The new technology provides training system developers with a complete end-to-end development toolkit for creating compelling, high-quality simulation and training.

Havok will be showcasing simulation capabilities in booth # H130 at ITEC on May 22--24 in London.

For further information, please visit www.havoksimulation.com

 [Click here to return to Contents](#)

Kawasaki Heavy Industries Selects Autodesk Digital Prototyping Software to Design Electrical Controls in Industrial Robots

22 May 2012

Autodesk, Inc. announced that Kawasaki Heavy Industries, Ltd. (KHI) has adopted Autodesk Digital Prototyping software to design electrical controls in industrial robots. KHI will use Autodesk tools in its Robot Division, specifically to increase the productivity and efficiency of design work, and to help drive collaboration between teams, partners and customers around the world.

As a respected pioneer in Japan's robotics industry, KHI develops and manufactures industry-leading, high-performance industrial robots to enable more efficient productivity, more consistent quality, and

CIMdata PLM Industry Summary

greater savings in automation and labor. KHI has recently been focusing on overseas markets such as China and India, where there is growing demand for industrial robots. The company is also expanding its capacity to provide industrial robots in order to meet the need for automation in a variety of new fields, as well as in more traditional sectors such as automotive, semiconductor and solar panel production.

KHI aims to establish a more efficient design workflow for higher productivity, while continuing to expand its industrial robot business on a global scale. Accordingly, KHI has adopted AutoCAD Electrical, part of the Autodesk solution for Digital Prototyping, for designing, creating and producing electrical systems and circuits.

KHI selected AutoCAD Electrical for the following reasons:

- In addition to electrical design capabilities, AutoCAD Electrical operates on the familiar and popular AutoCAD platform, making it easier to exchange data with partners and customers worldwide.
- AutoCAD Electrical enables management of multiple drawings in a project, enabling important information to be more easily updated in a single step, while maintaining consistency.
- AutoCAD Electrical enables efficient production of drawings for electrical control design through capabilities such as component and circuit transferability and automatic circuit generation, all while reducing the time required to create drawings by up to 80 percent.
- AutoCAD Electrical enables automatic report generation, helping eliminate interference and duplication in drawings and streamline works for component aggregation.

“For the past 40 years, since we first started producing industrial robots in Japan, KHI has provided preferred solutions for efficient automation, labor savings, higher productivity and consistent quality — all for improved competitiveness. Currently, we are expanding our industrial robot business on a global scale, including the rest of Asia, the United States and Europe. To enhance our competitiveness, we have decided to adopt AutoCAD Electrical electric design software. With AutoCAD Electrical, we can achieve greater efficiency and productivity in our design work, helping us to continue developing and manufacturing the best industrial robots in the world,” said Yasuhiko Hashimoto, General Manager, Robot Division, KHI.

In addition to AutoCAD Electrical, the KHI Robot Division has relied on various Autodesk software packages for industrial robot design for some time, including AutoCAD software and AutoCAD Mechanical design and drafting software. As a design solution partner to the KHI Robot Division, Autodesk will continue to support KHI’s initiatives to increase efficiency in the digital design workflow and to develop high-quality industrial robots.

 [Click here to return to Contents](#)

Outstanding Customer Support Leads Zamil to ZWCAD

23 May 2012

CIMdata PLM Industry Summary

ZWSOFT announced it has entered into a global agreement with Zamil Industrial to adopt ZWCAD across the company for its construction and manufacturing departments in Saudi Arabia headquarters, and branches in India and Vietnam. Zamil favors ZWCAD because of the outstanding product performance and customer support.

Zamil Industrial is a leading manufacturing and fabrication group that provides products, engineering systems and services for the construction industry. It was established in 1998 in Dammam, Saudi Arabia and sells its products in more than 90 countries with manufacturing facilities in Saudi Arabia, United Arab Emirates, Egypt, India, Vietnam and Italy.

As Zamil was deciding on a CAD software for their company, their main concerns were price, support, compatibility and having a friendly user interface. Orbit, the authorized ZWCAD reseller in Saudi Arabia held many testing meetings and workshops for Zamil, to show how ZWCAD 2012 could meet their demands.

Due to Orbit's strong desire to provide great support and the powerful features and functions of ZWCAD, Zamil not only decided to integrate the software in Saudi Arabia, but in their branches around the world as well. Zamil is continuing to purchase additional seats of ZWCAD given that they are unifying the solution in all units and sub branches and receiving positive end user feedback along with continuous improvements in the software.

Truman Du, CEO of ZWSOFT commented, "Zamil and Orbit are a great example of the partner relationship that we promote here at ZWSOFT. Outstanding product performance and support are the core values that we have been continuously delivering to our customers. I am happy to say that customers who purchase ZWCAD are often pleasantly surprised at the high level of support from ZWCAD's partners and resellers around the world."

About Orbit

Orbit Middle East, the authorized reseller of ZWCAD in Saudi Arabia, is a leading provider of best-of-breed solutions for businesses across the spectrum of the real estate and Architectural / Engineering / Construction (AEC) industries. It competes against time, past performance and rivals to efficiently deliver high quality solutions for project management, scheduling, estimating, construction accounting, property management, quantity takeoff, and CAD. <http://www.cadsaudi.com/>

 [Click here to return to Contents](#)

Product News

3D Systems Introduces ProJet™ 7000 Production 3D Printer

22 May 2012

3D Systems Corporation announced today the immediate availability of its new ProJet™ 7000 production 3D printer, extending the benefits of its 'crossover' technology further. The ProJet™ 7000

CIMdata PLM Industry Summary

combines push button simplicity with SLA(R) printability to deliver the highest quality, most accurate parts and patterns available. Its large build volume of 15x15x10 inches (380x380x250 mm) and lightning-fast build speed provides up to 4 times the production capacity of other printers in its class. The ProJet™ 7000 will be on display May 23-24, at RAPID 2012 at the Hyatt Regency in Atlanta, Georgia, in booth # 120.

The ProJet™ 7000 production printer comes in 3 models: the SD for affordable high definition parts, the HD for ultra-high definition precision part manufacturing and the MP for dental and medical manufacturing applications. The ProJet™ 7000 prints the finest feature details resulting in the most accurate prototypes, parts and master patterns for urethane and investment casting applications. This large capacity printer comes with a wide range of VisiJet® functional materials including tough, flexible, black, clear, e-stone and high temperature materials, ensuring users can switch seamlessly to just the right print material for any production application.

"The powerful combination of push button simplicity and SLA printability makes the ProJet™ 7000 value very compelling to our professional and production users," stated Buddy Byrum, Vice President Product & Channel Management for 3D Systems.

"Customers asked us for larger and more part printing capacity and our ProJet™ 7000 delivers. Its expanded print format delivers both larger models and more parts in a single print for enhanced overall productivity."

 [Click here to return to Contents](#)

Autodesk Announces Autodesk Fabrication Software for MEP Engineers and Contractors

23 May 2012

Autodesk, Inc. announced Autodesk Fabrication software, a new set of applications designed to help extend Building Information Modeling (BIM) across the building lifecycle to support the fabrication and construction of mechanical, electrical and plumbing (MEP) projects. The new software line marks the latest step in Autodesk's portfolio of solutions aimed at MEP contractors and engineers, and is based on products provided by Micro Application Packages Limited (MAP Software), which Autodesk acquired in October of last year.

"The new Autodesk Fabrication tools reflect our commitment to provide downstream project solutions to extend the benefits of a BIM workflow for the MEP engineering, contractor, and construction markets—to help them reduce inefficiencies, lower costs, and improve collaboration," said Nicolas Mangon, senior director, AEC strategy and marketing, Autodesk. "These new tools will help today's MEP professionals meet the increasing demand from their clients to support a BIM workflow. The Autodesk Fabrication family of products provides the tools today's MEP contractors and engineers need to support a building systems project moving from design into detailing, fabrication and installation."

"Our clients are looking for contractors that can deliver a BIM workflow to minimize conflicts, reduce

CIMdata PLM Industry Summary

rework and improve collaboration,” said Robert Krier, president of The Hill Group, a Chicago-based firm engaged in construction, maintenance and operation of building systems. “Autodesk software enables us to meet these demands by integrating our processes between design, detailing, fabrication, and installation. The Autodesk Fabrication portfolio helps us bring the benefits of BIM to our clients; for estimating and cost analysis; the detailing of systems using real-world content, and the direct manufacturing of the HVAC components, so our MEP systems are ready for jobsite installation.”

Autodesk Fabrication software for MEP contractors and engineers includes:

- Autodesk Fabrication FABmep 2013 – Helps users fulfill detailing and fabrication requirements in a BIM based process with Autodesk Revit software for MEP engineers. Extend Autodesk Revit design models to Fabrication FABmep and continue a BIM workflow from design to detailing and fabrication.
- Autodesk Fabrication CADmep 2013 – Helps users fulfill detailing and fabrication requirements for an AutoCAD-based workflow. Fabrication CADmep allows users to design and detail in a familiar AutoCAD environment.
- Autodesk Fabrication ESTmep 2013 – A tool to help produce more accurate estimates and cost analysis of building services projects.
- Autodesk Fabrication CAMduct 2013 – Helps users control the production of ductwork components for a project through innovative interfaces and comprehensive parametric component libraries.
- Autodesk Fabrication CAMduct Components 2013 – An application that provides additional stations to perform job entry and help speed production throughput.
- Autodesk Fabrication Tracker 2013 – Supports project management through the ability to help track the status of individual projects and their associated items from fabrication to installation.
- Autodesk Fabrication RemoteEntry 2013 – Helps users quickly address unanticipated job site changes by enabling users to remotely order components based on project specifications directly from the fabrication site.

To help support stakeholder buy-in by enabling any member of an extended team to visualize and walk through building services models created with Autodesk Fabrication software, the new line of tools also includes a free* viewer, Autodesk Fabrication Review 2013, which can be downloaded from the Autodesk website.

 [Click here to return to Contents](#)

Automatic Nesting Breaking Out of the Production Office (Aptia Solutions)

17 May 2012

Aptia Solutions (www.aptiasolutions.com) announced today the immediate availability of QuoteFab, its new automatic nesting product to aid the calculation of accurate costs for quotation of sheet materials.

CIMdata PLM Industry Summary

QuoteFab is a simple yet powerful costings calculator that all but eliminates labor intensive and error prone quotation tasks such as cleaning customer drawings, calculating number of pieces, and working out true material requirements. As it does not rely on databases or clunky back-end systems, QuoteFab is designed to be installed with absolutely minimal disruption to your business. QuoteFab is high impact, low maintenance software that is designed to play happily alongside your existing systems and procedures yielding long-lasting returns with a minimum of fuss.

“We have designed QuoteFab for the sales agent rather than the production engineer which means customer facing staff can get the information they need quickly and without navigating the often complicated interfaces found in software for production machining.” said Glenn Whitwell, Managing Director of Aptia.

“It’s all about providing the correct automatic nesting tools on the correct desktops. All too often we hear of companies using complicated production nesting software for quoting purposes or, at very least, sending jobs to the production office simply to get an idea of the material required for their quote costing. In both cases, production often gets delayed while the quoting work is carried out so neither of these scenarios produces a satisfactory outcome.”

“We have learned that when nesting tools are easy to use, inexpensive and tailored to the specific task at hand, confidence in the software increases and business productivity does too.”

For more information on QuoteFab, please visit www.quotefab.com

About Aptia Solutions

Aptia Solutions Limited is a software development company based in Nottingham, UK. Aptia provides a range of innovative software applications built around its powerful automatic nesting technology. With a complementary suite of applications including an automatic nesting plugin for SpaceClaim, Aptia’s products cover all aspects of efficient material usage from quotation and planning to design and manufacture. These have been adopted by a wide range of industries including metal fabrication, aerospace, defense, motorsport, power generation, marine, architecture and sculpture. For more information on Aptia Solutions, please visit www.aptriasolutions.com.

 [Click here to return to Contents](#)

AVEVA Releases the Latest and Most Powerful Version of AVEVA Instrumentation

22 May 2012

AVEVA has today announced AVEVA Instrumentation 12.1, an enhanced version of its instrumentation and control engineering software is available. AVEVA Instrumentation 12.1, the most powerful instrumentation application on the market and one of AVEVA’s fastest growing products, is available for both plant and marine environments. Like AVEVA’s recently launched brand new application AVEVA Electrical, it has been designed and tested in close collaboration with AVEVA customers who

CIMdata PLM Industry Summary

have demonstrated up to a 30% man-hour savings with the new product.

“AVEVA Instrumentation has proven to be a highly successful engineering product for AVEVA”, commented Bruce Douglas, Senior Vice President- Marketing & Product Strategy, AVEVA. “AVEVA Instrumentation integrates with AVEVA Electrical, which is a compelling piece of additional functionality to this platform. No other supplier provides such close synchronization between these two important disciplines enabling true integration.

“We are excited to be able to provide the plant and marine markets with two mission-critical applications that are so tightly integrated and offer our customers such compelling quality improvements and efficiency savings.”

AVEVA Instrumentation can be implemented stand-alone, integrated as part of AVEVA’s Integrated & Engineering Design approach or with other third party software.

New functionality includes an improved intuitive and easy to use interface, with enhanced graphical engineering capabilities. This allows tabular data such as component references to be represented at the click of a button, dramatically increasing productivity.

To learn more visit www.aveva.com/aveva_instrumentation.

 [Click here to return to Contents](#)

BIMx by GRAPHISOFT is First 3D AEC App to Fully Utilize the New iPad’s Retina Display

23 May 2012

GRAPHISOFT has announced an update for its BIMx application. The BIMx 1.2.455 update for iPhone/iPad app provides native support for the iPad 3 Retina display, resulting in crisper images and stunning virtual reality.

The new iPad’s Retina Display offers stunning graphics and a new level of mobility to professional, high-end visualization. At the same time, the quadrupled pixel count makes the application of interactive 3D apps like BIMx a difficult task. GRAPHISOFT was the first in the AEC space to combine performance with high quality, 3D navigational capabilities. “It is worth noting that architects operate with true, detailed BIM models and not only simple, image-mapped surfaces,” said Gabor Horvath, Director of Mobile Developments at GRAPHISOFT. “Our biggest challenge -- and competitive edge -- is the way we approach a great user experience through uncompromized performance in all our applications.” With BIMx and GRAPHISOFT’s ArchiCAD, architects and designers can explore their project designs in a 3D environment that supports real-time 3D navigation identical to mainstream computer games. The Retina Display-compatible BIMx is available new and as an update (1.2.455) in the App Store and is free of charge.

About GRAPHISOFT

GRAPHISOFT® ignited the BIM revolution with ArchiCAD®, the industry first BIM software for architects. GRAPHISOFT continues to lead the industry with innovative solutions such as the revolutionary GRAPHISOFT BIM Server™, the world's first real-time BIM collaboration environment, and the GRAPHISOFT EcoDesigner™, the world's first fully integrated building energy modeling application. GRAPHISOFT's innovative solutions have fundamentally changed the way architects around the world design and collaborate. GRAPHISOFT® has been part of the Nemetschek Group, since its acquisition in 2007.

 [Click here to return to Contents](#)

CNC Machine Makers and Users Agree on Alphacam Software

23 May 2012

CNC machine manufacturers for the United States stone industry say the machine-specific VBA functionality of the Alphacam software package, is a principle CIM tool for architectural stone fabricators.

Both Park Industries and Northwood demonstrated the power of Alphacam Stone alongside their machines, on their booths at the recent Coverings Stone Show in Orlando.

And Park customer PT Tile Holdings believes the software would be invaluable to any stone fabricator using CNC technology. Slab Manager Bryan Fischer says: “We’ve used it to program our Titan and Fusion machines for over 18 months, and it readily breaks down our LT-55 files, sends them to Slabsmith and back to Alphacam, generating Fusion and Titan files in just over half an hour.”

Users say Alphacam’s use of VB Apps to streamline and simplify partner-specific machining functions – e.g. hybrid saw and waterjet table setup – are particularly useful. Northwood and Park have both written VB Add-ins that use Alphacam, helping to automate the programming of special functions available on their respective machines.

With the stone sector now representing around 30% of Alphacam’s new business in America, the software had its own booth at the show for the first time. Perry Boyett, Alphacam Sales Manager in the States, says: “A growing number of fabricators are now using Alphacam Stone to create CNC code for a variety of machines ranging from 2-axis bridge saws to 5-axis routers and combination machines.

“They manufacture products such as counter tops, shower pans, stone mantels, monuments, sinks, fountains, ornate carvings, statues, and stone arches. Many who came to our booth at the show were particularly interested in how Alphacam can program saw and waterjet combination machines, along with the Alphacam Art feature which allows them to easily convert 2D sketches, photographs, drawings and graphic designs into unique high quality 3D carvings and designs.”

Other Alphacam features which stone fabricators wanted more information about:

- Nesting, which saves material, lowering production costs
- Machining Styles simplify and speed up the programming process, as multi-pass profiles are applied in a single step
- Solid Simulation with collision detection between tooling and table setups of pods and stops. Setups can be checked before being loaded into the machine
- Alphacam supports file imports from major CAD and templating systems.

And there was an added bonus for one visitor to the Alphacam booth – Matt Laliberte, of Ripano Stoneworks, won the ipad which Alphacam put up in a prize draw.

 [Click here to return to Contents](#)

Eagle Point Software Corporation Announces 2013 Updates to Its AutoCAD Civil 3D Software Companion Solutions

22 May 2012

Eagle Point Software Corporation, an Autodesk AEC Industry Partner, announced the 2013 release of its AutoCAD Civil 3D companion solutions: Data Reduction, Designers' Companion, and Surveyors' Companion. These 2013 releases are designed to help civil engineering professionals deliver more innovative project solutions by enabling building information model (BIM) processes.

“We are excited to announce the release of Eagle Point’s Civil 3D 2013 companion products as we strive to improve how organizations implement and adopt Autodesk infrastructure technologies,” says Steve Biver, Civil Infrastructure Product Line manager at Eagle Point.

"We are glad to have an AEC Industry Partner like Eagle Point Software continue to expand its portfolio of companion products for AutoCAD Civil 3D 2013," explains Jim Quanci, director of the Autodesk Developer Network. "Eagle Point's experience in the AEC market has allowed them to enhance the additions to AutoCAD Civil 3D 2013 with survey and design tools that help our customers take better advantage of BIM."

Data Reduction allows organizations to streamline the AutoCAD Civil 3D survey transfer process. Whether downloading directly from the collector or importing a job already on the PC, shots described in the field using Eagle Point’s popular coding methodology come into Civil 3D with proper description key symbology and linework automatically generated.

Designers' Companion reduces the number of steps and simplifies workflow for common civil engineering design tasks within AutoCAD Civil 3D. Guided by a straightforward interface, Designers' Companion offers end users efficient tools to rapidly lay out subdivision streets, lots, highways, parking lots, detention ponds and subsurface terrain. By leveraging the dynamic, iterative power of the AutoCAD Civil 3D model earlier in the design process, project alternatives can be quickly modified and

finalized sooner.

A set of tools that streamline the survey workflow, Surveyors' Companion leverages proven surveying technology to enable organizations to comfortably and productively move to AutoCAD Civil 3D software. Surveyors' Companion interacts with native point, parcel, surface, alignment and profile data.

For more information, please visit <http://www.eaglepoint.com>, contact Eagle Point at 1-800-678-6565, or contact your Autodesk reseller.

About Eagle Point Software Corporation

Since 1983, Eagle Point Software Corporation has been delivering technical software and services to the AEC market. As an Autodesk AEC Industry Partner and authorized Autodesk Developer, ISV and Government partner we offer desktop solutions that run on AutoCAD®, AutoCAD® Civil 3D®, and Autodesk® Revit® platforms. By offering products and services that complement the Autodesk family of products, we help our architectural and engineering clients to use Autodesk technology more productively, enabling them to maximize returns on their technology investments. For more information, please visit <http://www.eaglepoint.com>.

 [Click here to return to Contents](#)

EMC Accelerates Journey to Cloud for Engineering, Plant and Facilities Management Organizations

22 May 2012

At EMC World 2012, EMC today announced the immediate availability of [EMC® Documentum® Engineering, Plant and Facilities Management](#) (EPFM) OnDemand, delivering a high value purpose-built application as hybrid-cloud managed service. The Documentum EPFM Solution was built in response to common challenges faced by energy operators, engineering and construction companies and engineering project teams within large enterprises. Challenges such as misplacement and/or loss of information, poorly-managed supplier/contractor and operator collaboration and content sharing, and significant health, safety and environment risk due to project/operations inefficiencies, can often cause project slowdown, project failure and costly fines.

Documentum EPFM focuses on highly project-centric and repeated "transmittal" processes for managing supplier/contractor and operator interaction through potentially thousands of drawings and documents. It can support hundreds of project engineering capabilities such as bulk importing and validation of content, engineering numbering systems, and collaboration across multiple parties. As a managed service, EPFM OnDemand enables customers to stay current on the latest software releases, simplify management of highly-complex applications and lower total cost of ownership. Many projects can be resource-intensive over short periods of time, making the delivery of this capability as a cloud-based service especially compelling for lowering the total cost of ownership and accelerating project initiation and completion.

CIMdata PLM Industry Summary

Customer Benefits:

- EPFM OnDemand increases agility, saves time and costs, improves IT efficiency, and simplifies management of highly-complex applications.
- Faster, lower cost for project initiation.
- Highly secure infrastructure management by EMC experts for enterprise grade security, high availability, backup and disaster recovery.
- Optimizes operations and supply chain management processes with Enterprise Content Management (ECM) systems and business tools such as SAP® Plant Maintenance, Oracle® E-Business Suite®, Primavera®, Maximo®, AutoCAD®, Microstation®.
- Lowers the risk of non-compliance by improving collaboration inside and outside the firewall.
- The EPFM solution is also available for implementation in a traditional environment.

The underlying technology of OnDemand is a hybrid cloud deployment model for enterprise-class applications, designed to help customers accelerate their journey to the cloud. Developed using a range of best-in-class technologies from VMware, RSA and EMC, the infrastructure can contain one or many EMC and EMC partner products and can be completely portable from one data center to another. It also enables customers to provision and configure the system for rapid deployment.

In addition to EPFM, EMC OnDemand is available for [EMC® Documentum® D2](#) for configuring intuitive user client interfaces to the [EMC® Documentum® platform](#) , [EMC® Captiva®](#) for enterprise capture, [EMC® Document Sciences®](#) for customer communications management and [EMC® Documentum®](#) for enterprise content management.

[Click here to return to Contents](#)

EMC Atmos Transforms Big Data Storage by Simplifying Global Scale and Expanding Cloud Access

21 May 2012

At EMC World 2012, EMC today announced a suite of enhancements to the EMC Atmos Cloud platform that transform the way service providers and enterprises manage Big Data in large, globally-distributed cloud storage environments. EMC also announced new Atmos Cloud Accelerators that make it even easier and faster to move data in and out of Atmos-powered clouds.

Each Atmos storage cloud provides hundreds of thousands of subscribers with access to their data from around the globe, from any device at anytime. With over 40 global service providers in more than 70 locations, Atmos-powered clouds are leading the industry in creating a global, easily accessible storage footprint.

According to the 451 Group, the public cloud storage services market will grow to almost \$6 billion by 2015 with a CAGR of 47% 1. As cloud adoption accelerates, service providers and enterprises are facing a host of new challenges in the way they scale and manage their cloud storage operations. The onslaught

CIMdata PLM Industry Summary

of mobile device use, application development and rise of Big Data and public cloud use bring additional requirements for value added services and rapid global cloud access. Unlike competing platforms, EMC Atmos delivers the on-demand scale, access and broad functionality needed to keep service providers and enterprises ahead of these rapidly evolving requirements, speeding the adoption of cloud and helping customers realize the objectives behind their cloud deployments.

New Product Highlights

Global Scale:

- **New networking enhancements** improve performance, availability and security. These capabilities deliver greater than 50 percent faster read and write performance for large objects. New segmentation and security features provide the ability to separate management and data traffic for users and administrators.
- **New Atmos Event Manager** improves system visibility by 3x and provides enhanced alerting and aggregated logging at the system, data center and node level while providing near real-time visibility into overall system activity and performance. Historical monitoring information has been expanded to now include visibility at the year, week and hour level.
- **New upgrade technology** speeds node upgrades in globally distributed environments by 90 percent and enables businesses to remain 100 percent accessible with greatly reduced maintenance windows. Non -disruptive service upgrade capabilities are essential for enterprises and service providers whose businesses are open around the clock.

Cloud Accelerators:

- **End users** have new options to access an Atmos cloud from their native environment. The suite of web access tools is expanded to include Google Chrome and HTML5 and complement the existing Firefox browser tool. Atmos GeoDrive for Windows is now internationalized to support worldwide languages for end users.
- **Developers** have a new set of capabilities in the Atmos API to rapidly deliver new functionality in their applications. These include secure single-use access for anonymous users, capacity management APIs to enable quotas, and the ability to set the identifier for an Atmos object. The Atmos Software Development Kit (SDK) is expanded to include Google Android support.
- **Traditional applications** have new tools and capabilities to move their content into a cloud environment. Customers with Centera® integrated applications can carry forward their rich set of Centera metadata into any Atmos cloud and apply Atmos data lifecycle policies based on this metadata. AtmosSync, a new open source migration tool, accelerates migration of file system content to the cloud.

Availability

New EMC Atmos product enhancements are expected to be available in the second half of 2012.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

HyperSizer v6.2 from Collier Improves Design and Manufacturability of Composites and Metals

16 May 2012

Collier Research Corporation today announced the release of HyperSizer® v6.2 structural sizing and analysis software. The latest version of the product, which is used widely in the spacecraft and aviation industries, includes new modeling capabilities for airframe wing box designs, and laminate zone and ply-count optimization enhancements to improve manufacturing efficiency.

“HyperSizer has enabled our Center to be more competitive in this regard. It’s a robust analysis tool that allows us to complete our weight and strength studies in far less time, while finding optimal ply coverages.”

“Composites are booming due to stepped-up fuel consumption efficiency goals,” says Craig Collier, president of Collier Research. “This is pushing the movement towards light-weighting. But creation of lighter, stronger designs is limited by many of today’s standard industry practices. Weight is needlessly added because engineers have only a partial view of options. They often overdesign to play it safe.”

To overcome such drawbacks, HyperSizer targets weight while serving as an independent and neutral data exchange hub for CAD, FEA, and composite software packages. It iterates with FEA solvers, calculates margins of safety, validates failure predictions with test data, and sequences composite laminates for fabrication—avoiding weight growth as designs mature.

“HyperSizer works from preliminary design through flight certification,” says Collier. “This gives the engineering team a more wide-open conceptual design space for performing trade studies involving thousands of alternatives. They can find robust solutions that lead to significant weight and cost savings. On average our customers reduce weight by 20 percent.”

“In the past, our designs were often overweight,” says Ian Fernandez, former materials and analysis lead on NASA Ames Research Center’s LADEE satellite project. “HyperSizer has enabled our Center to be more competitive in this regard. It’s a robust analysis tool that allows us to complete our weight and strength studies in far less time, while finding optimal ply coverages.”

HyperSizer has been used on a wide variety of NASA spacecraft projects including the current Space Launch System (SLS) rocket, previous Ares I and V launch vehicles, the Composite Crew Module, and the metal Orion Multi-Purpose Crew Vehicle. Commercial aviation customers include Boeing, Bombardier, Goodrich, Gulfstream, and Lockheed Martin. HyperSizer’s capabilities are also appropriate for applications in wind turbine blades, ship hull and superstructures, high-speed railcars, and automobile body components.

New features and enhancements in HyperSizer v6.2 include:

- Discrete Stiffener Modeling – For airframe wing box and fuselage structures, the software

CIMdata PLM Industry Summary

automatically identifies in the FEM, skin shell and stiffener beam elements and optimizes their spacings, heights, and laminates. This provides the flexibility for designing panel bays with non-uniformly spaced stiffeners of varying directions, dimensions, and materials, while also assigning margins to each unique stiffener panel segment.

- Laminate Optimization for Manufacturability – An improved, six-step process optimizes laminates (transition zones, ply-count compatibility, ply drops/adds, global ply tracking) while balancing strength, stability, and manufacturability. This leads to fabrication efficiencies and factory-floor cost-savings.
- Other enhancements – New puck composite failure analysis for both 2D and 3D fiber fracture; new curved (skin) local buckling analysis; upgraded compression and shear postbuckling analyses; enhanced panel concepts (PRSEUS, reinforced core sandwich, and tapered tube beam); improved test data and other graphical displays and functions; and new methods documentation.

Collier Research will be demonstrating HyperSizer v6.2 at the upcoming SAMPE (Society for the Advancement of Material and Process Engineering) conference, Booth 1049, May 22-24 in Baltimore, MD.

For more information about HyperSizer v6.2, please visit www.hypersizer.com. For v6.2 PowerPoint: [http://hypersizer.com/download.php?file=9103_HyperSizer-Whats_New-Version_6.2%20\(ja\)%202012-04-12.pdf](http://hypersizer.com/download.php?file=9103_HyperSizer-Whats_New-Version_6.2%20(ja)%202012-04-12.pdf)

 [Click here to return to Contents](#)

HyperWorks Partner Alliance Adds CONVERSE Process Structure Interaction Software to Analyze Fiber-Reinforced Parts

23 May 2012

Altair today announced the addition of CONVERSE software from PART Engineering GmbH to the HyperWorks Partner Alliance (HWPA) to provide process structure interaction software to the array of applications available at no additional cost to HyperWorks users. CONVERSE offers engineers an easy-to-use tool that bridges the gap between injection molding simulation and mechanical simulation by importing the results from a third-party injection molding software, processing them, and then exporting the results into a third-party mechanical FEM software. Overall, this improves the quality of the subsequent simulation results.

"Using CONVERSE for our structural simulations of fiber-reinforced parts, we have the ability to model anisotropic material properties efficiently," said Michael Gabler, group leader of simulation for TRW Airbag Systems GmbH. "This capability increases the quality and the value of the simulation results significantly."

CONVERSE provides users with highly reliable results in simulating short-fiber-reinforced injection

CIMdata PLM Industry Summary

molded parts as well as realistic simulation of thermo-mechanical behavior of molds and inserts. It enables the user to consider the anisotropic properties different properties parallel and transverse to the local fiber orientation in the part, as well as consider process loads that affect the inserts or the molds themselves. The highly accurate software improves the overall designs of molds and parts.

"We are very pleased to join the HyperWorks Partner Alliance," said Dr. Wolfgang Korte, CEO of PART Engineering. "Now that CONVERSE is in the HyperWorks Partner Alliance, we will have an even further reach across a vast number of industries by way of Altair's unique and flexible licensing model."

Altair HyperWorks customers can use their existing HyperWorks Units to access CONVERSE through the HWPWA, a suite of third-party applications from HyperWorks partners. The flexibility of HyperWorks Units empowers users to deploy the largest and most complete suite of CAE applications available at no incremental cost and with no long-term commitment.

"CONVERSE from PART Engineering is an extremely valuable complement to the manufacturing simulation solutions currently available on the HyperWorks platform," said Antoine Poussier, Altair vice president of global partner programs. "With this addition, Altair welcomes into the HyperWorks Partner Alliance yet another leading solution that broadens its simulation technology offering."

The HWPWA strives to provide the most comprehensive offering of software applications across multiple relevant domains related to computer-aided engineering. The addition of CONVERSE reflects this effort, enhancing the flexibility of the HyperWorks Units and the overall value of Altair HyperWorks.

About PART Engineering GmbH

PART Engineering was founded in 1999 as a spin-off of the world-renowned Institute of Plastics Processing at Aachen Technical University (RWTH), Germany. Starting as a consultancy firm for product development of plastics and rubber parts, PART focused on providing CAE services in the scope of FEA. The Converse and S-Life software products evolved from the company's need to provide efficient and high-quality CAE tools and services. Today, PART Engineering's portfolio includes contract CAE simulation and staffing services, as well as CAE software sales. PART Engineering continues to maintain a strong relationship with leading research institutes to ensure that the most cutting-edge technology is considered in its services and software products.

 [Click here to return to Contents](#)

IMAGINiT Technologies Releases New Version of IMAGINiT Clarity

22 May 2012

Rand Worldwide today announced its IMAGINiT Technologies division has released IMAGINiT Clarity and IMAGINiT Clarity LT for Autodesk Revit Server 2013 software. Designed to enhance the Revit Server platform, this web-based solution offers new and enriched features – all while supporting side-by-side installations of Autodesk Revit 2013 and 2012. Internal team members and external

CIMdata PLM Industry Summary

partners can dramatically improve project collaboration, automate repetitive tasks, and provide valuable data to non-Revit users with simple setup, easy administration and secure connectivity.

“We received widespread support from the global Revit community when we launched IMAGINiT Clarity because we created a simple, secure way to collaborate on Revit projects,” says Bob Heeg, executive vice president, IMAGINiT Technologies. “While collaboration is commonplace in the industry, it brings about new challenges. In a Revit design environment Clarity fills a need for project level security that many clients require. In addition to security, Clarity includes task automation and reports which enable architectural, MEP and structural firms to collaborate with owners and construction firms in an environment that meets the needs of each stakeholder.”

Architecture, engineering, and construction firms with multiple offices and multiple partners are now able to securely share a centrally hosted Revit 2012 or 2013 BIM model securely. New features enhance collaboration and significantly cut both time and resources required to complete essential tasks.

Secure BIM Models

The new version of IMAGINiT Clarity helps minimize risk of downtime by supporting the ability to host different BIM projects on multiple central host servers. This optional mesh configuration eliminates the single point of failure issue by distributing different projects across multiple servers and also provides load balancing ability for users, projects, regional pipelines and servers.

IMAGINiT Clarity’s central dashboard makes management easy with the ability to view, manage and monitor all of the central host servers as well as local accelerator servers without having to log into each of them separately.

Distributed Task Servers

To ensure the host servers are focused on critical functions, the automation of tasks can now be assigned and scheduled to other servers and/or workstations. The new version of Clarity allows specific hardware to conduct mundane tasks while freeing up the mission critical servers and staff to undertake higher value tasks.

To share model data with people who don’t use Revit, IMAGINiT Clarity also provides more export options when transforming model data into file formats. In addition to PDF, DWF, Data Export and Image Export file formats, IMAGINiT Clarity can now also automatically generate both DWG and IFC files.

Easy Administration

IMAGINiT Clarity’s dashboard graphically displays the real-time network health of all central and local servers and activity for all BIM projects. The dashboard also provides alerts as they arise such as Model Locks, bandwidth or connectivity errors, assisting the administrator to both pinpoint concerns and quickly correct the issue. Additional enhancements with this release include extending the integration and

CIMdata PLM Industry Summary

synchronization of Active Directory to virtually eliminate additional IT management required for setting up or managing user and permissions within IMAGINiT Clarity.

New LT Edition

Organizations of many sizes can benefit from Clarity, but not all need the entire package. Seeing this need, IMAGINiT created Clarity LT which helps organizations looking to get started with project sharing and security. Limited to 2 active projects and 25 users, Clarity LT has the same overall capabilities of IMAGINiT Clarity.

 [Click here to return to Contents](#)

Informative Graphics Announces Release of Brava! 7 for EMC TaskSpace

21 May 2012

Informative Graphics Corporation (IGC) announces today the release of Brava!(R) 7 for EMC Documentum TaskSpace 6.6 and 6.7 SP1. The release debuts this week at EMC World (www.emcworld.com) at the Venetian Conference Center in Las Vegas, booth 1127.

Brava offers multi-format viewing and collaboration that is ideal for transactional business applications common to TaskSpace customers. Users only need a web browser to access files, so no desktop installations are needed. The original document is never sent to client machines and is never modified, maintaining the integrity of the original document.

Most notable in this new version is Brava's Compare feature, which allows users to compare different versions of a document or CAD drawing, even if those versions are in different formats (e.g., Microsoft Word and Adobe PDF). For text-searchable documents, users can step through each area of difference one at a time and even create a summary report of differences. For drawings, users can view the versions side by side or overlay one on the other. Areas of difference are highlighted in red or green (deletions and additions, respectively).

For more information about IGC's offerings for EMC Documentum, visit www.infograph.com/emc .

About Informative Graphics

Since 1990, Informative Graphics Corporation (IGC) has been a leading developer of commercial software products for viewing, collaboration and redaction. IGC products, including Redact-It, Net-It and viewing/collaboration/annotation tool Brava, are renowned for their cost-saving value, ease-of-use, features and scalability. The products have been deployed by thousands of corporations, law firms and government entities in the United States and internationally. Headquartered in Scottsdale, Arizona, IGC maintains offices in the United States and has key distribution partners worldwide. For more information, visit www.infograph.com or follow us on Twitter <http://twitter.com/#!/IGCsoftware> or Facebook at <http://www.facebook.com/InformativeGraphics> .

 [Click here to return to Contents](#)

Luxion Releases KeyShot 3.2: 3D Rendering Enhancements, UI and Speed Improvements

23 May 2012

Luxion is proud to release KeyShot 3.2 with major updates to existing functionality, UI improvements and additional file format support.

A specific focus on updates and improvements to the existing KeyShot toolset is the focus of this release with enhanced speed, a cleaner interface and a handful of fixes to make creating 3D renderings and animations even faster. KeyShot 3.2 now support instant loading of materials, textures and environments decreasing the time it takes to find and apply materials. Material Templates can now be applied after a model has been imported while applying materials to the 3D model on import becomes even faster with the support of part names and wild cards. Additionally, the UNDO capabilities have been greatly increased with a completely re-worked UNDO stack that provides the option to UNDO nearly every command.

UI improvements bring a cleaner layout to property settings and options. With this, arrow keys can now be used to navigate through the scene tree and the camera list. Along with improvements and speed increases across many features, additional enhancements have been made to the SolidWorks importer adding improved tessellation and material mapping. Additional import support has also been added for Autodesk Alias 2013 and Maya 2013.

You can view the full feature list with additional images [here](#).

Improvements include:

- Instant loading of all library content (no waiting for material/environments/textures to display)
- Support for part names and wild cards (*.*) in material templates
- Completely re-worked UNDO stack - UNDO nearly everything
- Use arrow keys to navigate through the scene tree and camera list
- Sync of realtime and advanced render settings in render dialog (raybounces, shadow quality)
- Support for scale and transformations (scale and transformation remembered on all levels)
- Increase of maximum raybounces in realtime settings to 64.
- UI cleanup throughout the system
- Bug fixes

Additional enhancements include:

- Improvements to SolidWorks importer
- Support for Creo 2.0
- Support for Autodesk ALIAS 2013

CIMdata PLM Industry Summary

- Support for Autodesk Maya 2013
- Added Spanish language support (UI only)

Updated plugins

Independent of KeyShot 3.2 but also being released today are updated plugins for Creo, Rhino and SolidWorks. Updates include improved import and bug fixes. Download at <http://www.keyshot.com/downloads/plugins/>

 [Click here to return to Contents](#)

MSC Software Announces New Adams/Machinery

22 May 2012

MSC Software Corporation today announced [Adams/Machinery 2012](#), a new functional virtual prototyping and multibody dynamics solution for high-fidelity modeling and simulation automation of common machinery components in equipment, such as robotics, conveyors, agricultural equipment and industrial machinery.

The solution is expected to be available at the end of June. To learn more, watch the videos at www.mscsoftware.com/adams-machinery or register for the June 12th live [webinar event](#).

Adams/Machinery 2012 is a fully-integrated set of tools within MSC's Adams multibody dynamics software to assist engineers with virtual test and prototyping, and mechanical system simulation in general.

Valuable product attributes for engineers include the following:

- High-fidelity simulation of common mechanical parts, such as gears, belts, and chains
- Enhanced productivity with incredibly quick model-solve-evaluate process times
- An automated, wizard-driven model creation process for ease-of-use
- Straightforward evaluation of results in Adams/Postprocessor

With this solution suite, equipment and machinery manufacturers will be able to design, model, and evaluate common mechanical components with relative ease in a world-class CAE environment.

Custom Suite of Modeling Productivity Tools

The Adams/Machinery solution provides designers and engineers with a custom set of tools for rapid modeling and pre-processing through automation of activities including geometry creation and establishing subsystem connections. The new offering also assists users with post-processing by providing automated plotting and reporting commonly needed by machinery equipment manufacturers and their suppliers to communicate system performance. Modeling productivity tools in this first release include the following:

CIMdata PLM Industry Summary

Gear Module: model and evaluate the behavior of gear pairs for a variety of gear types, including spur, helical, and straight/spiral bevel;

Belt Module: examine planar dynamic behavior of belt-pulley systems for a range of belt types, including smooth, poly-V groove, and trapezoidal-toothed designs;

Chain Module: model and evaluate the dynamics for both roller and involute, i.e., silent, chain types.

Easy-to-Use Interface for Engineers

With the productivity tools for modeling and pre-processing of chain, gear, and belt components, Adams/Machinery provides an extremely approachable, easy-to-use interface with in-line help and useful information about the components, their connections, and applicability of modeling fidelity options. Wizards help guide users through model setup and provide the ability to quickly edit, modify, and/or change modeling fidelity options.

System-level Optimization within Adams

The Adams/Machinery components are parameterized and compatible with multi-run options for design studies and optimization simulations using Adams/Insight. Engineers can take advantage of the full set of functional virtual prototyping features within Adams and seamlessly extend activities into full system-level simulations to assess overall design performance.

This first release of Adams/Machinery 2012 includes belts, chains, and gears, with bearings, cables, motors and other common machinery components planned for future releases.

“Reducing downtime and warranty claims is of paramount importance to machinery manufacturers around the world. Yet, the utilization of simulation that can provide important insight during the design phase is behind where it is in industries such as aerospace and automotive,” said Anthony Gugino, Product Development Manager for Adams/Machinery. “Adams/Machinery changes all of this because of its application focus, ease of use and extensive productivity value.”

 [Click here to return to Contents](#)

New Autodesk SketchBook Ink App Delivers Stunning Creative Tools for iPad

24 May 2011

Autodesk, Inc. launched [Autodesk SketchBook Ink for iPad](#) paint and drawing app, the latest release from the company’s popular SketchBook family, which has more than 10 million downloads to date. Powered by a brand new engine, Autodesk SketchBook Ink introduces unique technology for artists to create stunning, high-resolution ink-style artwork. The SketchBook Ink addition to the SketchBook family increases the number of choices available to artists to express their creative visions in a digital environment.

“With more than 10 million downloads to date, we’re proud that the SketchBook family is changing how, where, and with what tools people unlock their creativity. People who never considered using a digital app for their artwork before, are now turning to SketchBook to produce incredible illustrations”

CIMdata PLM Industry Summary

Unlike traditional vector drawing apps, SketchBook Ink enables users to produce very fine detail in their artwork, independent of resolution, building on the intuitive freehand-drawing [Autodesk SketchBook Pro](#) platform. This new technology also supports the ability to export and print large, high-quality images right from the iPad. Final artwork can be exported at optimal sizes to the photo library on iPad, email, Dropbox, or iTunes file sharing. Images exported to Dropbox or iTunes file sharing can exceed 100 megapixels.

“We are fortunate to collaborate with many talented artists, so we know how important it is for them to have a variety of tools for not only different tasks in their creative process, but also to express their personal styles. SketchBook Ink provides more choices for artists. And with its ability to produce high-resolution output, it makes a huge leap for content creation on the iPad,” said Chris Cheung, product line manager, Autodesk.

Complementing Autodesk’s popular app for the iPad, SketchBook Pro, which offers a variety of sketching and painting tools, SketchBook Ink is dedicated to pen-and-ink drawing. The inking behavior gives it a distinct feel but builds on the intuitive and familiar interface valued by SketchBook users worldwide. SketchBook Ink launches with seven preset ink styles and two types of erasers. The app supports importing images from the photo library on iPad that can be used as references or backgrounds.

“With more than 10 million downloads to date, we’re proud that the SketchBook family is changing how, where, and with what tools people unlock their creativity. People who never considered using a digital app for their artwork before, are now turning to SketchBook to produce incredible illustrations,” said Samir Hanna, vice president, Consumer Products, Autodesk.

The Autodesk SketchBook Ink App is available for \$4.99 exclusively from the App Store on iPad or at www.iTunes.com/AppStore. For a limited time at launch, SketchBook Ink will be available for a special introductory price of \$1.99.

 [Click here to return to Contents](#)

Quill Support for Advanced Milling in Edgecam

22 May 2012

Further enhancements to the recently-introduced revolutionary Waveform Roughing strategy, and Quill Support for advanced milling, are just two of the significant features in the latest release of the market-leading CAM software, Edgecam, from the Vero group.

Unveiled in the previous edition, the Waveform Roughing Strategy offers even greater stability, more precise machining and faster metal removal. The new Edgecam 2012 R2 takes this advanced process to the next level, including improvements to the entry methods, ordering and calculation speeds.

CIMdata PLM Industry Summary

General Manager Raf Lobato says: “The Waveform Roughing Strategy gives improved tool life, constant engagement with material and constant chip load, superior material removal rates, and an improved surface finish which potentially eliminates secondary cutting cycles”.

The following are just some of the other improvements in functionality and ease-of-use in Edgecam 2012 R2, from Vero Software:

Advanced 5 Axis Simultaneous Milling:

The new Advanced 5 Axis Simultaneous Milling license introduces new parameters to control the toolpath, a new dialog with images to help explain the options available and the option to machine multi-blade components.

Advanced Milling – Quill Support:

Quills (secondary Z axis) can now be included in milling machine configurations, enabling the user to switch between the z axes, control which one is in use, and see the quills movement in Simulator.

Ease of Use:

Raf Lobato says: “Edgecam 2012 R2 includes further improvements to the User Interface making Edgecam even more intuitive and easier to use.”

When editing an Edgecam cycle the original geometry picks are now retained and do not need to be reselected unless the user chooses to. A similar time saving feature is the improved picking of edges on solid models and 2D profiles, ensuring that the user has full control of picking entities that will be used by other functions within Edgecam.

And to make it easier to manage a large set of machining instructions, it is now possible to group a number of instructions into user defined sets within the sequence browser.

Rotary Machining of Slot and Pocket Features on Solid Models:

External rotary slot and pocket features along a cylinder solid model can now be identified for subsequent machining. The feature attributes help the user to select the correct tool and machine the feature in rotary mode.

Stadies:

Stadies can now be included in Turning and Mill/Turn machine configurations, and included in the simulation of the machining sequence in Simulator.

Raf Lobato says: “Extensive research and ongoing development ensures Edgecam constantly enables users to gain the absolute maximum performance from their CNC machines and the CAM process, maintaining a competitive edge.”

 [Click here to return to Contents](#)

Reville Software Announces Support for EMC Documentum D2 and EMC Documentum Mobile

21 May 2012

Reville Software™ today announced that its [Reville Management Console for EMC Documentum](#) now supports EMC® Documentum® D2 and EMC Documentum Mobile.

“EMC Documentum is delivering advanced client and mobile solutions to fulfill the ‘New User’ promise”

The EMC Certified™ Reville Management Console for Documentum extends EMC Documentum to provide operational and resource management of Documentum performance and service levels. Now, the Reville Management Console for Documentum uniquely delivers real-time, actual user experience monitoring of EMC D2 and EMC Mobile users and measures the service levels of the key EMC D2 and EMC Mobile platform components.

EMC Documentum D2 takes the complexity out of content-centric solutions by providing a spreadsheet-like approach to configuring purpose-build content solutions without the need for time-consuming customizations. EMC Documentum Mobile is the take-anywhere access to EMC Documentum repositories. Available for anyone with an Apple iPad or an iPhone, the EMC Documentum Mobile App allows Documentum repository users to perform common tasks from virtually anywhere that they have internet access.

“EMC Documentum is delivering advanced client and mobile solutions to fulfill the ‘New User’ promise,” said Bob Estes, chief executive officer of Reville. “Reville Management Consoles provide EMC D2 and EMC Mobile customers operational, resource and application compliance management in an easy-to-implement, packaged solution that increases application availability and improved PC and mobile device user experiences.”

Additional Resources

- Learn more about the EMC Certified™ Reville Management Console for [Documentum](#)
- Learn more about [Reville Software](#)
- Reville Software will demonstrate EMC Certified solutions for EMC [Documentum](#) and EMC [Captiva](#) at [EMC World 2012](#) in Las Vegas, NV from May 21st - 23rd, 2012 at Booth #1218

About Reville Software

Reville Software™ provides the most widely-used packaged application and performance management (APM) solution for enterprise content management (ECM) applications. Reville proactively monitors user experience, application processes and business metrics to improve end-user experience and increase application governance. Used by hundreds of companies, including Amgen, Nestle and JP Morgan Chase, Reville provides improved application service levels and reduced application operating costs so that business-critical applications perform at peak efficiency and availability.

 [Click here to return to Contents](#)

SolidACE Releases New Version 3.1 of BuiltWorks

24 May 2012

SolidACE, a company developing computer aided design and engineering tools for the architectural, building and construction engineering, and plant engineering markets, today announced the release of the new version 3.1 of BuiltWorks, a structural steel design and engineering add-in application for SolidWorks® CAD environment.

“BuiltWorks is flexible to enable external best of breed vertical market products from AEC and Plant industries to be linked to SolidWorks establishing communication chain within and between companies involved in the design, analysis, fabrication and construction of industrial facilities, buildings and structures,” said Dr. Vladimir Popov, CEO of SolidACE. “BuiltWorks can read and save data in popular industrial formats – SDNF (Steel Detailing Neutral Format), and CIS/2 (CIM steel Integration Standards). This ensures seamless and integrated round-trip data exchange and information flow between SolidWorks and Industrial design systems including those for structural steel detailing, analysis and fabrication”.

Some of most important new features and enhancements in BuiltWorks 2012 v.3.1 are:

- SolidWorks link to Plant Design
 - Import and Export of CIS/2 Design Model and SDNF formats
 - Support of SolidWorks native Weldments
 - Suitable for exchanging General Arrangement models with AVEVA PDMS, Intergraph PDS and SmartPlant 3D, Bentley AutoPlant and other Plant Design Systems
- SolidWorks link to Detailing and Fabrication
 - Import and Export of SDNF format and CIS/2 Design Model
 - Support of SolidWorks native Weldments
 - Exports extrudes as structural plates
 - Imports structural plates as Imported Bodies
 - Suitable for data exchange with Tekla Structures, AceCad StruCAD, Design Data SDS/2 Detailing System and other Detailing and Fabrication Systems
- SolidWorks link to Structural Analysis and Design
 - Direct Bi-directional link in STAAD.Pro format
 - Import and Export of CIS/2 Analysis Model
 - Support of SolidWorks native Weldments
 - Suitable for data exchange with Bentley STAAD.Pro and RAM Structural System, Dlubal RSTAB, CSi SAP2000 and ETABS, RISA-3D, Robot Structural Analysis and other A&D Systems
- SolidWorks link to Building and Structural Design

CIMdata PLM Industry Summary

- Import and Export of CIS/2 Design and Analysis Models or SDNF format
- Support of SolidWorks native Weldments
- Supports basic Connection Detailing features
- Suitable for data exchange with AutoCAD Structural Detailing, Bentley Structural Modeler and ProSteel, Graitec Advance Steel, Autodesk Revit Structure and other AEC Systems

The new BuiltWorks 2012 version 3.1 will be available for download through SolidACE web site immediately.

About SolidACE

SolidACE is a company focusing on the Architectural, Building and Construction Engineering as well as Plant Engineering markets within a Dassault Systèmes SolidWorks environment. SolidACE, registered in Vilnius, Lithuania, was established in November 2008 by experienced and dedicated structural steelwork software professionals with the express intention of developing an intuitive 3D solution within the SolidWorks environment. The company supports and advises within the world of steel and has dedicated design professionals. For the latest news, information, and demonstration resources, please visit the company's Web site (www.solidace.com), contact representatives at info@solidace.com, or call +370-5-212-4660 (Lithuania).

 [Click here to return to Contents](#)

ZW3D 2012 Now Has 100+ Million Free Engineering Parts from TraceParts

24 May 2012

ZWSOFT today announced that more than 100 million 3D models and 2D drawings from TraceParts are now available to download for free in ZW3D 2012, which will greatly improve engineer's design efficiency.

“Engineering designs today focus more on productivity and efficiency than ever before. Introducing the tailor-made TraceParts community for ZW3D 2012 will greatly benefit users,” stated Colin Lin, Technical Manager of ZW3D. “In this community, users will be able to access millions of native 3D model parts. Meanwhile, this community, or let's say the part library, will be constantly updated so that users will be able to access the latest parts.”

To access the new part library in ZW3D 2012, just click on the Application tab on the Ribbon panel or simply go to www.tracepartsonline.net/ws/ZW3D. Here users will easily find the ZW3D-TraceParts community offering over 100 million 3D CAD models & 2D drawings, including both industry standard parts and products from hundreds of manufacturers' catalogs used by the tooling, machinery, aerospace and automotive industries. With the abundance of designed engineering parts and the advanced CAD CAM capabilities of ZW3D 2012, engineers will find themselves able to go beyond 3D to Digital Prototyping by being able to design, visualize, and simulate products before they are ever built.

CIMdata PLM Industry Summary

"We are very happy to see TraceParts seamlessly integrated into ZW3D 2012, the all-in-one, affordable CAD CAM solution," said Gabriel Guigue, TraceParts Managing Director. "Time to market is crucial to ZW3D customers, and we know that over 80% of CAD models that a mechanical designer adds to his parts list are later purchased. This is why we strongly believe the introduction of TraceParts into ZW3D 2012 will surely help ZW3D customers sharpen their design productivity while maximizing the market exposure of our catalogs."

About TraceParts

TraceParts is a leading digital engineering content company, offering customers progressive business solutions through powerful web based products and services. TraceParts helps customers improve marketing efficiencies by increasing the value of their existing digital product data. The TracePartsOnline.net CAD portal is freely available to millions of CAD users worldwide. For more information about TraceParts, please visit www.traceparts.com

 [Click here to return to Contents](#)