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CIMdata News

Jotne EPM's EDMmodelServer™(plcs)—Using PLCS to Harmonize Product Development and Support Environments (CIMdata Commentary)

21 May 2009

Today's manufacturing industries are under continuous pressure to deliver competitive products faster. At the same time, they must reduce the cost of development and the cost of product ownership, protect their intellectual property while working in shared environments, and sustain business growth and competitiveness. In order to achieve this goal, collaboration across the product development lifecycle is critical. Unfortunately, collaboration introduces many complications that must be addressed in order to ensure the integrity and consistency of product development information and processes that span increasingly-complex business environments (e.g., environments that bring together multiple companies, each with their own systems and processes). Effective collaboration throughout a product's lifecycle requires the ability to accurately integrate and share product data that is created and used within multiple applications—and that environment must be sustained for as long as the product is in use; sometimes even longer.

Addressing these issues requires establishing a consistent source of knowledge for all product-related information and processes that knowledge workers can share in real-time. They need to be able to have connected processes so that information flows to workers when and as needed. The business value in such an integrated, end-to-end environment is that product information and processes are optimized not for individual departments or groups, but for all extended enterprise participants and across the full product lifecycle. However, when creating these complex networks, it is frequently impossible to mandate a heterogeneous set of applications. Each partner and customer will have made their own Product Lifecycle Management (PLM) investments and will need to leverage them in the most effective manner possible.

In the past, deploying a comprehensive PLM environment has typically required implementing a set of applications (or applications modules) that encompass and support selected PLM functionality. These applications are then integrated to provide transfer and use of product-related information in as seamless and transparent a manner as possible, as well as providing support for the execution of end-to-end processes across the appropriate applications. As PLM environments have expanded to encompass more of the product lifecycle, more and more applications are being used and the number of integrations continues to increase significantly. Additional resources—both human and financial—have to be committed to maintain and upgrade the overall environment.

One approach to this problem is to establish and use a common or master data unified repository in which product and process information from many sources (e.g., systems, companies, etc.) can be merged and consolidated. This repository must be designed to handle many product versions and configurations and distinguish between information packages received from multiple suppliers and partners, and delivered to many customers.

Creating such a repository requires using a consistent set of data exchange standards. One standard being adopted is ISO 10303-239 (PLCS). Product Lifecycle Support (PLCS) is intended to cover the information required to support a product throughout its life. It is a member of the ISO 10303 family of standards, generally known as STEP (STandard for the Exchange of Product model data). PLCS-compliant solutions are intended to provide the capability to support all the information required to

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design maintenance solutions for a product through life, to track planned and unplanned maintenance based on the actual state of the product, and the changing configuration of the product as components are replaced and repaired. PLCS can also be used to associate technical documentation and training materials to various valid product configurations. PLCS includes definitions for:

- Information required to maintain a complex product
- Information required for through life configuration change management of a product and its support solution
- Representation of product assemblies
- Identification and representation of parts, their versions, definitions, and documentation and management information, such as dates and approvals assigned to parts
- Representation of a product through its entire lifecycle
- Specification and planning of activities for a product
- Representation of the activity history of a product
- Representation of the product history
- Associating technical documentation and training materials to various valid product configurations

Interfacing applications to the unified PLCS repository is facilitated by the concept of Data EXchange specifications (DEXs). These are subsets of the PLCS model dedicated to specific domains. They are standardized at a business case level and enable a consistent implementation of AP239. Business DEXs are the lowest level of complete data exchange specifications and address the needs of specific data exchanges between existing applications. For example, DEX 1 is for interfacing PLM applications to the PLCS model and DEX 3 is made for interfacing Integrated Logistics Support (ILS) applications to the PLCS model.

Jotne has developed a solution based on international open standards that fully supports PLCS. The *EDMmodelServer*TM(plcs) functions as a PLCS repository housing the common product and process information used across product lifecycle related applications, e.g., Product Data Management (PDM). The EDM platform also provides high-level API's (DEXs) facilitating the interfacing of specific domain applications—PDM, ILS, etc. This ensures that the applications connected to the central repository are replaceable without loss of information both as it is created, and then into the future as it is used throughout a product's life. Information owners are better able to change or update their applications and still maintain control of the information stored in the repository.

The EDM solution is not meant to replace the PLM and PDM management applications that may be used by the various partners and customers, but is intended to provide functionality that can be applied to information from all connected applications. The domain-specific operations will still execute in specialized applications while the PLCS repository manages the total product-related information and provides supervisory functionality related to the information stored in the repository. A typical implementation would include a neutral PLCS repository (e.g., EPM's Model Server), data exchange packages (DEXs) for integration other information sources and repositories, a PLCS reference data tool and library, and application adaptors as shown in Figure 1.

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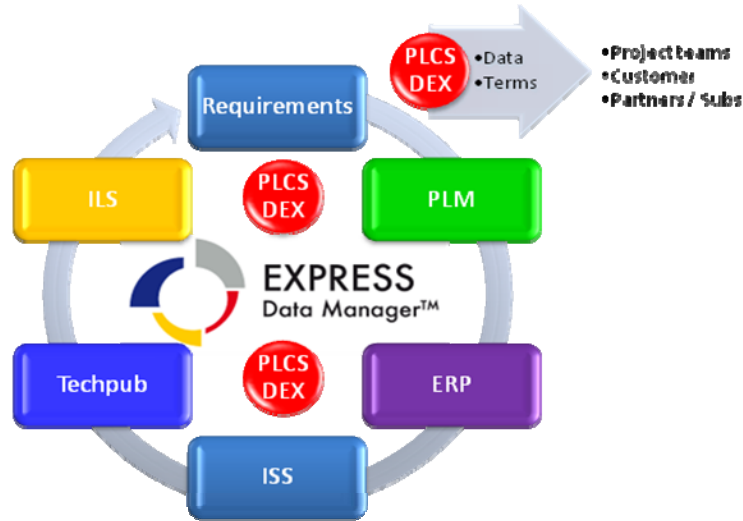


Figure 1—Example of an *EDMmodelServer™(plcs)*-Based Environment

The *EDMmodelServer™(plcs)* supports functions such as common check-in/check-out, validation, business and engineering rule checking, etc. For more information about Jotne's *EDMmodelServer™(plcs)* please go to www.epmtech.jotne.com.

Since all data is converted via DEXs and stored in a PLCS definition, the information can be relatively easily monitored for consistency during the ongoing exchange processes. This data validation helps maintain product information quality and integrity even in highly-distributed and heterogeneous environments.

Another benefit of the EDM solution is that because all information is converted and stored in a single PLCS-based repository, a master product baseline can be established by using baseline information contained in multiple sources and merging them within the PLCS repository. The common baseline can then be used to support baseline comparison and reconciliation throughout the product's lifecycle and across the product states.

Many products that have extended lifecycles require companies to archive approved data and be able to retrieve that information when it may be needed for later operational or legal processes. This may be related to certification, product liability, knowledge management, manufacturing processes, or modifications on products and documents as well as later product support. A major challenge related to long-term archiving and reuse of product data is that the need for retention is frequently much longer than even the operational life of the product. This means that the applications using the data in the future are mostly unknown. Another challenge is to retain enough relevant information to serve products through this time span.

Using PLCS and the *EDMmodelServer™(plcs)*, a company can implement an archiving system that is based upon the properties of the products and not upon the functionality of the application or applications that produced the data. This enables the information to be maintained and used throughout the long lifecycles of products such as airframes and ships. Other benefits of using the *EDMmodelServer™(plcs)* and PLCS include:

- Reducing the cost of developing and maintaining interfaces across the supply network

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- Enabling customers, partners, and suppliers to work together while using the different development applications that each has chosen for the individual business
- Establishing a common terminology used throughout the product lifecycle

CIMdata thinks that PLCS enabling solutions, like Jotne's *EDMmodelserver*TM(plcs), offer companies who are developing and supporting complex products and working with diverse partners and customers, a method for the effective consolidation and management of product information both in the short- and long-term. Establishing a unified PLCS repository built upon open international standards facilities long-term information independency and enables integration and management of diverse product data and processes.

About CIMdata

CIMdata, a leading independent worldwide firm, provides strategic consulting to maximize an enterprise's ability to design and deliver innovative products and services through the application of Product Lifecycle Management (PLM) solutions. Since its founding more than 25 years ago, 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. CIMdata helps industrial organizations establish effective PLM strategies, assists in the identification of requirements and selection of PLM technologies, helps organizations optimize their operational structure and processes to implement solutions, and assists in the deployment of these solutions. For PLM solution suppliers, CIMdata helps define business and market strategies, delivers worldwide market information and analyses, provides education and support for internal sales and marketing teams, as well as overall support at all stages of business and product programs to make them optimally effective in their markets.

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 Siriusdreef 17-27, 2132 WT Hoofddorp, The Netherlands. Tel: +31 (0)23 568-9385. Fax: +31 (0)23 568-9111.

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Marketkey Webinar: CIMdata's Ed Miller Presents "Using PLM to Succeed in the Downturn"

[MarketKey](#), a leading provider of business intelligence webinars, offers a live opportunity to learn and interact with CIMdata President, Ed Miller, without leaving your desk.

When: Wed 3 Jun 2009

16:00 (UK GMT Summer Time) | 17:00 (Europe Summer Time) | 11:00 (USA Eastern Daylight Time)

Details: As the World economy fights to avoid freefall, many companies are entering survival mode, and those that aren't are still looking to make significant cost savings. One thing is clear, companies must be ready to capitalize on the opportunities that will emerge at the end of the economic turmoil.

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This webinar will demonstrate how PLM can improve your business processes, eliminate waste and crucially, maintain innovation through this difficult period. Learn why PLM is not a luxury that should be cut when a recession strikes, but a necessity to compete and succeed during a recession.

Speaker:

Eddy D. Miller

Ed Miller, President of the consulting and research firm CIMdata, is an internationally-recognized authority on Product Lifecycle Management (PLM) and a frequent keynote speaker at conferences and seminars around the world on trends, directions, strategies, methods, and technology issues. A graduate of the University of Michigan and Purdue University, he has more than 30 years of experience in the application of information technology (IT) for engineering and manufacturing. Mr. Miller has been instrumental in defining PLM, and is one of the most quoted experts in the field, articulating the overall industry vision and broad business implications of this rapidly-evolving field. He has authored numerous papers and research reports on PLM and related topics, and his articles, commentaries, and perspectives regularly appear in publications throughout North America, Europe, and Asia.

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TD PLM: think3's Task-Driven Approach to Enabling PLM (CIMdata Commentary)

20 May 2009

Recently, CIMdata had a chance to review think3's released PLM solution, TD PLM 2009.1 (the "TD" stands for "task-driven"). TD PLM is a new web-based PLM solution that, according to think3, has been designed to support a company's entire product lifecycle, from concept through to end-of-life. think3 has built this 3-tier Microsoft .NET solution from the ground up and has incorporated a number of notable features, including a task-driven, zero-footprint Web graphical user interface (GUI), tag-based search and classification, Shell integration, and a reasonable set of built-in localization tools that support global deployments. Upon reflection, what struck us more than anything else, is the task-driven approach think3 took in the design of TD PLM's overall user experience. In many ways, the task-driven user interface (UI) paradigm, which we also see in the latest release of Microsoft Office, has the potential to impact how all PLM solution suppliers approach the design of their UIs, and in fact how enterprises view PLM. From CIMdata's vantage point, this is a clear indication that the evolution of the PLM market is alive and well.

For years, CIMdata has written about the evolution of the PLM market and the hundreds of PLM-enabling solutions that support it. We have commented on the evolution of these solutions from custom implementations focused on precise applications wrapped around primarily engineering design data and CAD data management, to toolkits and generic applications that automated some typical engineering-related functions (e.g., engineering change management), and to the support of focused business applications that provide standard data models, predefined workflow templates, and other functions necessary to solve engineering-related business problems (e.g., product configuration management based on CMII). Today, the focus is on complete business solutions that address top- and bottom-line issues (e.g., managing a product's definition information for the lifecycle of the product).

In many ways, the most profound evolution that we are currently witnessing is occurring in the area of

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user experience. In the early days of PLM enabling technologies, it was common to find command line interfaces. In more recent years, especially with the advent of the Web, most PLM solution suppliers have dramatically revamped their user interfaces to look and act like a typical web page, with highlighted links and many of the features users have come to expect with the use of various desktop applications. Besides the web paradigm users have come to expect, Microsoft plays a significant role in setting user expectations related to UI development. With the introduction of Microsoft Outlook some years ago, many of the PLM solution suppliers and many other software vendors, sought to follow Microsoft's lead in UI look and feel. As a result, many of today's PLM solutions have a "MS Outlook-like" look and feel. The evolution related to the user experience clearly hasn't stopped. The more recent advent of context-based UIs and the push by some PLM solution suppliers to provide a more lifelike user experience with highly-sophisticated visualization capabilities are clearly having an impact on the industry. CIMdata expects this to continue as a result of Microsoft's introduction of, what Microsoft calls, the "Office Fluent User Interface."

According to Microsoft, in the Office Fluent UI paradigm the traditional menus and toolbars have been replaced by the Ribbon (i.e., a graphical UI component that presents commands organized into a set of tabs). In turn, the tabs on the Ribbon display the commands that are most relevant for each of the task areas in the applications. This task-driven approach provides the user with a context-sensitive experience (a capability already supported by a number of PLM enabling solutions) because it has been designed to provide access to specific application features based upon the specific tasks that are being, or need to be performed. In other words, it provides visibility and access to certain sets of commands that are only relevant when certain objects are present in a certain state (e.g., displaying the graphical editor when a graphic has been selected). CIMdata has no doubt that Microsoft's decision to incorporate various task-driven UI capabilities into its mainstream solutions will have an impact on other vendors who design and deliver UIs that operate along them; users will ultimately expect it and perhaps even demand it.

Overall, we are happy to see think3 decide to enable a task-driven UI and we feel that this is a positive step in the continuing evolution of PLM solutions and the UI experience they provide. This UI approach overcomes many of the complaints we have heard from users of functionally-rich PLM solutions. Users often comment that their PLM solution appears to be only designed for heavy users and that it is difficult to use if you are a casual user or one that only logs in a few hours a week. Upon login, TD PLM's UI presents the user with a set of configurable panels (e.g., File, Parts, Change Order/Request, etc.) that have a set of tasks, such as Add, Remove, Check-In, and Compare BOM. If the adoption curve is similar to MS Word and other Microsoft applications that use the new ribbon bar, the average user will take to this task-driven UI quickly and a relatively small percent of heavy users will wish that they had "more direct" access to the functions. Over time, these heavy users will likely find this UI paradigm to be just as powerful as the old, because ultimately, work is all about executing specific tasks. Other benefits, as reported by think3, include an easier customization environment due to the clear identification of access points, reduced code resulting in easier maintenance for both think3 and the implementing company, and most likely lower training costs.

As already mentioned, TD PLM has a number of other notable features, including Web GUI that is task-driven, tag-based search and classification, Shell integration, and some built-in localization tools. Each of these deserves a few comments, as they represent some characteristics worth noting:

Web GUI—think3 has designed TD PLM's GUI, including the CAD/Office interfaces, in a manner that doesn't require any desktop plug-ins to be installed, which means there are no extensions or ActiveX components required, and CAD users don't have to use a separate CAD integration interface. Additionally, this GUI is configurable according to each user's identity and role; thereby allowing only

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those tasks the specific users are allowed to execute to be visible.

Tag-based search and classification—think3 has, in addition to providing an administration console that allows the codeless definition of types and attributes in TD PLM data model, enabled TD PLM with a classification system based on tags. This simplified data classification approach allows “free” key words to be associated with and used to find managed data. This is a relatively natural approach that overcomes some of the complexity of the rigid taxonomies that tend to be created to support traditional classification scheme-driven solutions, but it does require a certain level of user discipline. This tag-based approach allows users to search across user-generated tags without having to worry about any pre-defined structure.

Shell integration—This capability allows TD PLM tasks to be accessed directly from the MS Windows Explorer. Currently, TD PLM’s Shell integration supports document classification, vaulting, check-in and check-out, and revisioning. This is think3’s way of bringing PLM to the desktop.

Built-in localization tools—think3 has taken a Unicode approach for the data and provides a set of time zone management features that allow for changes and other time-based events to roll around the world.

The current release of TD PLM comes in two packages—Office Foundation and Engineering Foundation. The Office Foundation package provides capabilities that are intended to satisfy a company’s typical office PLM-related activities, namely document and file management, parts management, versioning, lifecycle and workflow management, reporting, BOM management, and system administration. The Engineering Foundation provides a set of CAD integration capabilities to ThinkDesign, AutoCAD, Pro/ENGINEER, and SolidWorks. These capabilities have been designed to support smart legacy data capture, all meta-data appearing in the CAD systems supported are driven by TD PLM, and automatic BOM generation, title box creation and vault management capabilities are provided. Finally, the MS Office integration supports bi-directional data update, automatic vault management, and all meta-data appearing in the MS Office applications are driven by TD PLM.

think3 also offers a set of optional TD PLM modules that support various business processes, e.g., engineering change management, project management, and product configuration. The engineering change management module provides support for engineering change request and orders, and a set of functions that should provide the foundation for a typical company’s engineering change management requirements. The project management module provides a bi-directional MS Project integration, and task management from within TD PLM that is integrated with the user’s To Do List.

think3 appears to have done an admirable job leveraging their more than 20 years of experience in the development of TD PLM. For the first release, TD PLM appears to provide the capabilities required by many small to mid-sized organizations. It also appears to provide a solid PLM platform that has been designed, according to think3, to scale with an organization’s growth. The task-driven approach think3 has enabled holds significant promise and CIMdata expects other PLM solution suppliers to follow the same direction as Microsoft and other enterprise solution suppliers deliver applications that support it. think3 has done a good job developing a PLM solution that leverages the company’s more than 20 years of experience in the PLM industry.

About CIMdata

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solutions incorporate both business processes and a wide-ranging set of PLM enabling technologies. CIMdata also offers research, subscription-based services, publications, and educational services. Visit <http://www.CIMdata.com> for more information.

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Company News

Autodesk Partners with Clinton Climate Initiative to Provide Technology to Help Build More Sustainable Cities

May 19 2009

At the Seoul C40 Large Cities Climate Summit 2009, [Autodesk, Inc.](#) announced it is partnering with the Clinton Climate Initiative (CCI), a project of the William J. Clinton Foundation, to provide visualization technology for Project Two Degrees (www.project2degrees.org). Project Two Degrees is an Internet-based application that provides cities with a set of tools to measure, compare, and reduce greenhouse gas (GHG) emissions at a local level.

Autodesk is joining CCI and Microsoft Corporation to help sponsor the Project Two Degrees initiative. The sponsors, working with Project Two Degrees stakeholders--including ICLEI, Ascentium Corporation, and the Center for Neighborhood Technology--are developing the Project Two Degrees emissions tracking software. The project's Web-based software enables cities to calculate the carbon footprint of both municipal operations and the communities they service in a uniform way. Additionally, Project Two Degrees enables cities to plan meaningful actions that save energy and money and that make a profound impact in the fight against climate change. In the initial pilot phase, participants in the C40, a group of the world's largest cities committed to tackling climate change, will be the first to be invited to use the Project Two Degrees emissions tracking software.

"One of the most significant contributions Autodesk can make to address global sustainability issues is to provide the citizens of the world--through collaboration with our customers--with state-of-the-art design, visualization, and simulation tools for sustainable design," said Jay Bhatt, Autodesk senior vice president for AEC Solutions. "By helping customers better understand the environmental impact of their designs early in the design process, they can make smarter, more sustainable decisions and reduce their carbon footprints. We are pleased to partner with the Clinton Climate Initiative on Project Two Degrees and to support its mission of making a difference in the global fight against climate change in measurable and significant ways."

"We welcome the important contribution Autodesk is making to help build more sustainable cities by providing the digital mapping tools for Project Two Degrees," said Ira C. Magaziner, Chairman of the Clinton Climate Initiative. "Many of the world's cities have made public pledges to reduce their greenhouse gas emissions. Project Two Degrees provides them with a common platform for measurement of emissions reductions and exchange of best practices."

"Autodesk is a world leader in design innovation technologies and we are looking forward to working with them to help CCI build more sustainable cities," said Rob Bernard, Microsoft chief environmental strategist. "Through our collaboration in Project Two Degrees, we are dedicated to providing cities around the world with the software tools and support they need to measure and reduce greenhouse gas emissions."

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Autodesk will provide the technology--initially based on Autodesk MapGuide Enterprise--that will act as the model-based visualization environment used to view, evaluate and compare the results of analysis and monitoring in the C40 city. Autodesk MapGuide Enterprise software is a powerful mapping solution for delivering information more quickly, easily, and cost-effectively via the web.

To complement Project Two Degrees tools, Autodesk also provides building performance analysis tools to help cities take meaningful actions in curbing local and regional impacts from climate change, and can help save money, conserve energy, and track tangible progress.

For more information about Project Two Degrees technology, please visit www.project2degrees.org

For more information about Autodesk sustainability initiative, please visit: www.autodesk.com/green

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CADLore.com Launches CAD Projects

May 15 2009

Ever since the Internet has evolved more and more people are tailoring their business needs to it. Businesses from the CAD industry are doing the same. Firms from the architectural, mechanical, civil and manufacturing engineering are constantly using the net for outsourcing their CAD projects needs.

Finding and choosing the right outsourcing partner is a crucial decision for a business. An outsourcing partner is an extension of one's company, responsible for critical commerce functions. A good outsourcing partner should be reliable, responsible, cost-effective and quality-conscious. Additionally it should be able to provide uninterrupted services in peak season workload. Since May 2009 a new version of the b2b CAD outsourcing platform - CADLore.com offers its members free registration, ability to create personal profile, interact among each other through chat system and to share projects. Clients who are looking for drafters are able to find such with few clicks. Drafters on the other hand may find valuable CAD projects and jobs for their freelancing businesses.

The outsourcing community solutions offered by CADLore.com guarantee professional services with improved effectiveness and significant cost reductions. Members of the site can list their businesses in a directory and participate in link exchange program thus increasing their page rank and link popularity.

About CadLore.com: the site gathers CAD companies, CAD freelance professionals and clients looking for CAD services at one place. It covers all CAD related issues like: outsourcing 2D and 3D CAD projects, finding qualified civil, electrical, industrial, mechanical and structural engineering drafters, advertising drafting and design services, creating virtual CAD profile, forum about Autodesk, AutoCAD, Microstation, Solidworks, etc. The online platform is located at CADLore.com.

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CPG Solutions and Analytic Vision Announce Partnership

19 May 2009

CPG Solutions of Boca Raton, FL and Analytic Vision of Charlotte, NC announced a partnership combining Oracle technology expertise, market knowledge and vertical industry specialization. Analytic Vision is an expert in enterprise performance management and business intelligence with a range of industry experience including financial services and health care. CPG is an expert in Oracle E-Business

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Suite, Agile PLM, business intelligence and in the Engineering, Manufacturing and Supply Chain industries.

"Oracle technology is becoming more tightly integrated as customers demand that all parts of their systems work in concert," said Jim Daleen, CEO of CPG Solutions. "Collaborating with partners to deliver solutions that span multiple areas of expertise is critical." Analytic Vision and CPG intend to use their broad complement of skills to help companies improve operating performance and become smarter, more efficient and more agile using Oracle technology.

"Combining operating efficiency with the ability to convert data into useful information is now the competitive arena," said Jason Little, Principal of Analytic Vision. "Being better at producing, analyzing, and forecasting data makes you confident in your decisions, so you can stay ahead of the competition." CPG and Analytic Vision explain that even when companies have access to ample data, they typically find that managers cannot gain insight into what the data is telling them fast enough to react. One goal of the partnership is to change this.

CPG and Analytic Vision together bring the full complement of E-Business, EPM and BI technology expertise. Combined with financial expertise and vertical knowledge, the two companies offer the most effective combination of industry experience and expertise to mid-market companies in Oracle's Southeast and Mid-Atlantic Regions.

About CPG Solutions

Founded in 1997, [CPG](#) provides Engineering, Manufacturing and Supply Chain companies with Oracle Applications consulting services. CPG's services encompass installations and upgrades of Oracle ERP, Oracle Business Intelligence, Agile and Demantra, and the integration of Product Lifecycle Management software into Oracle applications.

About Analytic Vision

[Analytic Vision, Inc.](#) is an expert in enterprise performance management, business intelligence, and On-Line Analytical Processing (OLAP) solutions, providing planning, consulting services, and customized training that specializes in custom analytical solutions. Providers of Business Intelligence services, Analytic Vision helps companies analyze data, budget, plan, forecast, generate reports and make better business decisions. Analytic Vision also assists companies in assessing their current performance management and business intelligence environments, providing business solutions, and performance tuning their current analytical applications. Analytic Vision's full-lifecycle model provides end-to-end enterprise performance management and business intelligence solutions focused on each client's analytical requirements to provide them intelligent insight into their business for a competitive edge.

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Guangdong Wuyi University Receives US\$36 Million In-Kind Software Grant From Siemens PLM Software

May 18 2009

Siemens PLM Software, a division of the Siemens Industry Automation Division, announced an in-kind software grant with a commercial value of US\$36 million to Wuyi University. The in-kind investment, provided through the [Siemens PLM Software's GO PLM™ \(Global Opportunities in Product Lifecycle Management\) program](#), is the first in Guangdong Province.

The in-kind grant of NX™ software, Siemens PLM Software's comprehensive digital product

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development solution, will bolster the university's engineering curriculum and will support a new dedicated NX training center in China's industrial powerhouse. Approximately 1,000 undergraduate and graduate students as well as local enterprise professionals will benefit from engineering software and student/instructor training as well as an NX certification program.

Siemens PLM Software's NX digital product development software supports collaborative product design, engineering simulation and analysis, and integrated machining. NX helps customers improve product quality and profitability while reducing development cost and time-to-market.

"Wuyi University is very grateful for this generous in-kind grant of state-of-the-art software and hopes to expand collaboration with Siemens PLM Software," said Hu Shejun, president of Wuyi University. "From an academic perspective, the collaborative efforts will go beyond providing training in the latest PLM design and manufacturing technology for our students and enhance their employment prospects. Siemens PLM Software's NX will bolster Wuyi's role in serving the community and the society by promoting innovation to help Guangdong Province maintain its leading role in global manufacturing in today's challenging economic environment."

"As Guangdong Province's and China's manufacturers address major economic challenges, there is a gap between the current skill set of the workforce and the level of performance required in today's global manufacturing market," said Chuck Yuan, senior vice president and general manager, Siemens PLM Software, Greater China. "To bridge this gap, it is imperative for students in top programs like that at Wuyi University who wish to enter the workforce to be fully trained on one of the world's best technologies.

"As part of our corporate social responsibility activities, Siemens PLM Software is committed to fostering engineering talent in China by providing the tools to enhance skill sets to meet industry needs. We are proud to partner with Wuyi University, to provide students training on the same software tools that are used by many of the world's leading manufacturing companies," added Yuan.

About Wuyi University

Wuyi University in Jiangmen, Guangdong Province was founded in 1985. The University is dedicated to the belief that higher education should provide direct service to the local economy and strives to train qualified personnel in multiple disciplines for the economic development of Guangdong Province. Currently, Wuyi University has an enrollment of over 13,000, among which over 10,000 are postgraduates and undergraduates. Wuyi University comprises 12 schools and departments with an emphasis on science, engineering and technology. Wuyi University offers 32 majors for undergraduates and associate graduates in liberal arts, science, business and teacher-training. It also has two colleges (Continuing Education College and Higher Vocational-technical College).

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JETCAM Signs New Dealer for Slovenia and Croatia

21 May 2009

JETCAM International s.a.r.l. announced that it has signed sister companies ITS d.o.o and ITRC d.o.o. as new resellers for its sheet metal and aerospace CAD/CAM nesting software for the Slovenian and Croatian markets.

ITS d.o.o., with its daughter company ITCR d.o.o., has been official resellers of Siemens PLM Software solutions for Slovenia and Croatia since 1991.

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Martin Bailey, Marketing Manager for JETCAM International s.a.r.l. said; “With both Slovenia and Croatia playing such an important role in the world’s shipbuilding markets there is an ever increasing need to reduce costs in manufacturing. With their existing CAD and manufacturing experience coupled with our nesting and manufacturing management systems we are well positioned to provide manufacturers with significant and quantifiable savings which, in the current economical climate allow them to be more competitive.”

Bojan Veselic, Director, ITS d.o.o. added; “While we have first class CAM applications for Milling and Turning within our NX series portfolio, we did not have adequate products to offer laser, plasma, water cutting and dedicated 2D profiling users. Because our larger customers, including major shipyards in Croatia, had greater needs for such advanced solutions, we investigated offers of different cutting technology software vendors. We are very pleased with our decision to work with JETCAM. The interest for JETCAM solutions in both markets is already bigger than we could expect. Embedded software solutions which many cutting machine vendors bundle with their machines often do not satisfy customers' requirements. The capabilities of JETCAM Expert supplement the high-end Siemens PLM Software solutions we supply to small companies as well as for larger manufacturers.”

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Right Hemisphere Partners With EMC on End-to-End 3D Product Image Management Solution

May 18 2009

Right Hemisphere announced that it has teamed up with EMC Corporation to offer a complete 3D product image management solution. The solution is based on Right Hemisphere's Deep Server™ enterprise software and the EMC Documentum Enterprise Content Management (ECM) Suite.

The combined offering will allow companies to take 3D CAD (computer-aided design) data from engineering and directly integrate it with EMC Documentum. This 3D product content can then be viewed, searched, manipulated, shared, published and managed inside EMC Documentum.

The result is a true, end-to-end 3D file and content management system for non-engineering users responsible for service procedures, technical publications, and marketing deliverables. With this solution, many organizations can expect to save 30-40% of the cost required to create their product visuals as well as cut their overall production time in half.

"Interactive content and multiple communication channels are at the heart of how customers, partners and employees want to view and work with product information. Three-dimensional product visuals and the digitization of design data have created terrific opportunities for companies to deliver complex information in highly interactive ways. What was traditionally costly and difficult for non-engineering users is now significantly easier for cross-enterprise collaboration and management of product information," said Mark Arbour, Vice President and General Manager of Interactive Content Management at EMC. "The marriage of Right Hemisphere's technology with Documentum produces a 'must-have' solution for every corporate marketing, technical publications, and service department to keep 2D and 3D assets accessible, organized, secure, and at their fingertips."

Right Hemisphere's Deep Server enterprise software complements EMC Documentum with its ability to read over 80 2D and 3D file formats. This includes support for the most commonly used CAD applications such as CATIA, ProENGINEER, SolidWorks, and AutoCAD.

With Right Hemisphere integrated into EMC Documentum, users can be assured that they are getting

CIMdata PLM Industry Summary

the most accurate and up to date 2D and 3D product information into their preferred applications, and can produce and distribute deliverables needed to support the entire product lifecycle process. Integrating Deep Server with EMC Documentum also enables richer, more effective collaboration among team members and with supply chain partners.

"EMC is focused on bringing software to market that delivers accelerated business agility balanced with strong IT controls," said Right Hemisphere's Founder and CTO Mark Thomas. "Integrating Right Hemisphere's 3D technology with EMC Documentum enables non-engineering professionals to leverage existing 3D product assets to perform their own job functions better, faster, and with all of the strong IT controls and version tracking mechanisms already in place inside EMC Documentum."

EMC partner Boulder, CO based Flatirons Solutions -- along with technology provider Nextspace of Auckland, New Zealand -- are playing active roles in bringing this solution to customers. Nextspace has contributed its deep domain knowledge of the Right Hemisphere platform to assist Flatirons Solutions who is integrating the technologies and extending its current Documentum solution offerings to include Right Hemisphere's capabilities.

"Our customers enjoy the industry's most robust production management and delivery solution with EMC Documentum," said Thomas E. Zelibor, the president and CEO of Flatirons Solutions. "This partnership between EMC and Right Hemisphere provides a significant and much needed ability for an end-to-end solution that can be directly integrated into existing Documentum workflows. The integration means we can deliver marketing, technical publication and MRO solutions for our clients which make it easy for them to locate and re-use existing 3D CAD content without having to rip up their IT infrastructures."

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Siemens PLM Software Spain Announces PLM Initiative to Help Local Companies Address Business Challenges

May 18 2009

[Siemens PLM Software](#), announced two new local online PLM resource centers to help Spanish companies address today's business challenges and turn more of their ideas into successful products. The new online resource centers are part of a global initiative which was announced earlier this year.

The localized [small to medium size business \(SMB\) resource center](#) will show small manufacturing businesses how implementing a PLM strategy can help them better respond to the needs of their customers. Siemens PLM Software shows SMB customers how to reduce customer delivery by 50 percent, reduce engineering change orders by 40 percent, and save 30 percent in physical prototyping costs. Siemens PLM Software's top performing SMB customers use PLM to achieve these kinds of savings so they can respond quickly to customer needs.

Similarly, the localized [medium to large enterprise \(MLE\) resource center](#) is designed to show how implementing a PLM strategy can help address today's global business challenges. Siemens PLM Software shows how top performing MLE customers have addressed global business challenges to implement concurrent processes that reduce time-to-market by up to 30 percent, enable as much as 90 percent data reuse across global facilities and increase quality with up to 95 percent less rework.

These new local online resources are available to both current and potential customers.

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“In today’s global business environment the requirement to bring new and profitable product to market, couldn't be higher,” said Joan Francàs, General Manager, Spain Siemens PLM Software. “This environment requires a system and an approach to managing information around products that allows customers to deal with varied environments and still be profitable. There is really no way to compete in this global design-anywhere, make-anywhere, build-anywhere environment without a PLM strategy. Siemens PLM Software’s online resource center will provide information to local companies to address these challenges.”

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think3 leads with Sys PO Ingénierie In France

May 18 2009

Think3 has signed a distribution agreement for France with *Sys PO Ingénierie*, a company with offices in Lyons and Paris, France. *Sys PO Ingénierie* specialises in the implementation of CAD and PLM solutions for businesses in the transportation, product design, machinery, medical instrumentation, moulds and consumer product sectors.

Sys PO Ingénierie’s priority objective is to simplify the integration of think3 CAD and PLM solutions. The company will also be offering customers technical support services, training and assistance providing a complete backup service during all stages of implementation and after-sales.

“Sys PO Ingénierie has always had a reputation for supplying the best available solutions on the market for product engineering and development in the tooling, mold, industrial machinery and industrial design sectors” says Rachid Hassaini, General Manager at Sys PO Ingénierie. *“We have chosen to lead with the ThinkDesign CAD solution from think3 because it meets the flexibility and productivity needs of manufacturing companies and because it is easy to learn and use. Our top priority is to provide customers with practical, complete solutions which will help them to make their production processes faster and more efficient.”*

Sys PO Ingénierie will also be distributing think3’s PLM solutions (thinkPLM and TD PLM). Here the company can call on the decades long experience and expertise of its sister company *Sys PO*, headed by Patrick Vially, in handling value added services for think3 solutions.

“We found that Sys PO Ingénierie perfectly meets the strategic objectives we use to guide us when selecting our partners: a high level of competency in handling our applications, an excellent reputation and good knowledge of the market” says Amedeo Brasolin, Vice President Sales at think3.

“Collaboration with Sys PO Ingénierie will help us to strengthen our presence in France and offer our customers the solutions most suited to the requirements of that market.”

For more information about Sys PO Ingénierie: www.syspo-ingenierie.com

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Vornel Walker Promoted to VP Marketing at COADE

19 May 2009

[COADE](#) announced the promotion of Vornel Walker to Vice President, Marketing. The announcement was made by Thomas J. Van Laan, PE, the CEO and president of COADE.

Walker has 16 years of experience in the sales, marketing and business development of plant design and engineering software solutions for the process and power industries, including 13 years with COADE, first as Business Development Manager and then Marketing Manager. Prior to that, he worked for 18 years in the process and power industries as a piping designer for oil, gas, chemical and water systems using PDMS, PDS and AutoCAD-based solutions and as a site engineer for offshore and onshore projects in Denmark, Norway and the United Kingdom.

As Vice President, Marketing, Walker will be responsible for planning and overseeing all of the company's marketing programs and activities, including marketing collaboration with the company's global dealer network.

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Events News

Altair, TARDEC Emphasize Need for Increased Modeling and Simulation in the Development of Military Ground Vehicles at AIM FIRE Military Day

May 15 2009

The role of modeling and simulation in tomorrow's defense engineering industry was a focal point for some of the top experts in military and software engineering at the Advanced Innovative Methods for Improved Reliability & Efficiency (AIM FIRE) Military Day, a program co-hosted by leading global technology provider Altair Engineering, Inc. (www.altair.com) and the U.S. Army Tank Automotive Research, Development and Engineering Center (TARDEC).

More than 170 military personnel, military engineering professionals, and prime/sub contractors, as well as a member of U.S. Senator Carl Levin's staff, participated in the May 14 event at Altair Engineering's World Headquarters in Troy, Mich.

Altair has provided simulation software and consulting to TARDEC and its customers for more than 10 years, and AIM FIRE Military Day was designed to extend that relationship to the most current and urgent needs of America's military forces.

Dr. David Gorsich, TARDEC's chief scientist, delivered the keynote, "Reliability and Efficient Military Ground Systems," which focused on the simulations being used to drive vehicle systems development and the need for more simulation in the testing of these crucial systems.

"Efficiency and reliability are key to improving the robustness of the U.S. military's fleet of ground-wheeled vehicles," Dr. Gorsich said. "We must leverage simulation methodologies in the design of combat vehicle systems to achieve the Army's goals of technologies superiority and readiness."

The AIM FIRE Military Day event served as an important showcase of new and highly balanced design approaches for military ground vehicles, including Mine Resistant Ambush Protected (MRAP) All-Terrain Vehicles - also known as M-ATV vehicles - which are meant to increase force protection, fuel-efficiency, survivability rates associated with attacks from improvised explosive devices (IEDs) and more. A key change in the way these vehicles are being designed is the use of advanced computer simulation methods that help ensure improved reliability and efficiency of the vehicles and their armor and reduced total life cycle costs.

Computer-based programs, employing Altair software, can simulate IED blasts and their potential

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impact on vehicles of various designs. Data gathered from these simulations may lead to the production of vehicles that weigh less without sacrificing structural reliability and therefore can be equipped with more protection without increasing total weight. Lighter vehicles are operationally more efficient, thereby allowing longer periods between refueling and overall energy and fuel savings. These simulations ultimately create lifecycle cost savings that result from "up front" vehicle optimization design.

"Simulation techniques have immensely improved the efficiency with which we design safer cars and trucks, and similar design tools are making ground-wheeled military vehicles more effective in protecting our troops," said Jason Napolitano, regional managing director for Altair Engineering, Inc.

Currently, six contractors provide MRAP vehicles, but no single vehicle solves all the potential issues that fighting and peacekeeping forces confront. Altair is working with TARDEC to recommend ways to use computer simulation to standardize a design that meets all of the military's needs, which results in a more efficient use of defense dollars as well as supports Michigan's high-tech/defense industry.

The AIM FIRE event covered a wide range of technical issues, from designing a hull that better protects occupants to using simulated field situations for designing and testing vehicles. In addition to Altair and TARDEC, representatives from BAE Systems, Force Protection, Inc., General Dynamics Land Systems and Realtime Technologies, Inc., delivered presentations. The modeling and simulation technologies and strategies discussed at the conference are drawing increased attention from the defense industry, and the AIM FIRE event is expected to set the stage for future industry discussions on using simulation to speed improved vehicle design.

About TARDEC

TARDEC, part of the U.S. Army Research, Development and Engineering Command (RDECOM), is headquartered at the Detroit Arsenal, Warren, Mich. It is the Nation's laboratory for advanced military automotive technology. TARDEC's mission is to provide full service life cycle engineering support to the TACOM Life Cycle Management Command, the Program Executive Office for Ground Combat Systems, the Program Executive Office for Combat Support and Combat Service Support, and the Program Manager for Future Combat Systems Brigade Combat Team. TARDEC supports more than 2,800 Army systems and many of the Army's and DOD's top joint warfighter development programs. To learn more, please visit tardec.army.mil.

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Anark Announces Live Joint Webinar with Adobe

21 May 2009

Anark Corporation announced their upcoming joint webinar with Adobe. The webinar, entitled "Reinventing Design Collaboration and Data Exchange," will be held May 28, 2009 at 10AM Pacific, 12PM Central, and 1PM Eastern Daylight Time.

This live webinar will highlight and demonstrate how the Anark Core Platform, coupled with Adobe® Acrobat® and Adobe® LiveCycle®, make it easy, cost-effective and secure to share product design data between OEM's and suppliers. In addition, the webinar will cover:

- How Anark can help your organization transform complex 3D CAD data sourced from the PDM into lightweight 3D PDFs

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- How to deploy a “PDF Factory” that will automatically produce new PDFs whenever designs change
- How to collaborate globally in 3D with the free Adobe Reader and Adobe ConnectNow
- How to exchange manufacture-quality B-rep models embedded within a secure PDF document.

Anark Core is an automated bridge for transforming complex 3D CAD data sourced from PDM and CAD tools into lightweight 3D PDFs for downstream users. This live webinar will demonstrate new solutions to reduce costs, complexity, and intellectual property risks associated with sharing 3D product data.

The combined Anark-Adobe solution enables companies to produce and distribute high-precision and lightweight 3D PDF documents for design review and markup, design collaboration, and supplier data exchange.

Reinventing Design Collaboration and Data Exchange webinar will take place May 28, 2009 at 10AM Pacific, 12PM Central, and 1PM Eastern Daylight Time. Register now for this free LIVE webinar: <http://www.anark.com/events/anark-adobe-webinar.aspx>.

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Apache Design Solutions to Demonstrate the Next Generation Power Integrity Solutions for IC Package and SiP Designs at ECTC 2009

21 May 2009

[Apache Design Solutions](#) announced that they will be participating at the upcoming Electronics Components and Technology Conference (ECTC) in San Diego, California, May 17 – 28, 2009. ECTC is the premier international packaging, components, and microelectronic systems technology conference. Apache will be demonstrating Sentinel, a complete power and noise analysis platform for IC package, PCB, and SiP designs in booth #220. The Sentinel products address the challenges associated with system-level power integrity, I/O-SSO, thermal, and EMI issues.

What: Electronic Components and Technology Conference

Where: Sheraton San Diego Hotel & Marina, San Diego, California Booth #220

When: Wednesday, May 27, 7:00AM to 6:30PM

Thursday, May 28, 7:00AM to 4:00PM

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AspenTech 2009 User Conference Draws Global Process Manufacturing Industry Leaders to Share Best Practices for Navigating Uncertain Economy

20 May 2009

Aspen Technology, Inc. announced that AspenTech’s 2009 User Conference was attended by over 400 experts from 27 countries representing energy, chemical, engineering & construction, pharmaceutical and other process industry market segments. The AspenTech User Conference is the only event

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exclusively focused on best practices for optimizing process manufacturing. More than 100 customer presentations, panel discussions and case studies highlighted practical advice for navigating an uncertain economy. Highlights included:

- Anadarko Petroleum Chairman and CEO, James Hackett, delivering a keynote presentation to a standing-room-only crowd during which he addressed market factors impacting the global economy.
- FIATECH Executive Director, Dr. Ric Jackson, leading an industry panel and an interactive discussion, featuring experts from BASF, BP, ExxonMobil, Sunoco and Technip exchanging organizational, operational and technology ideas for navigating volatile market conditions.
- An Energy Management session featuring presentations from leading companies representing both the owner-operator and engineering and construction communities. Key elements focused on using aspenONE® software to reduce energy consumption.
- A new Virtual Training Lab, allowing attendees to test drive instructor-led virtual courses.
- A Solutions Showcase demonstrating integrated aspenONE software solutions for Chemicals, Exploration & Production, Petroleum Refining, Advanced Process Control, Batch Manufacturing, and more.

Supporting Resources:

[User Conference Attendee Testimonial Videos](#)

[About the AspenTech 2009 User Conference](#)

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Delcam to Launch New Orthotics Software at Foothealth Exhibition

20 May 2009

Delcam CRISPIN will launch a new version of its OrthoModel software for the design and manufacture of orthotic insoles at the Foothealth 2009 event to be held in Kettering on 23rd and 24th June. This will have new options for the creation of anatomical orthotics, alongside the existing functionality for standard orthotics and foot-positive models.

The new version of OrthoModel will also include a new method to define heel lift, improved arch definition, greater flexibility when creating bespoke orthotics from standard models, and enhanced graphics and workflow to make the system even easier to use. All of the new functions have been added in response to requests from the various orthotics companies that are supporting the development of the system.

The new anatomical options allow scan data to be taken from part of, or all of, the plantar scan representing the chosen sections of the sole and heel of the foot. This shape can then be reproduced exactly in the orthotic design to give the optimum contact area between the base of the foot and the device, and so spread the weight of the body as widely as required.

Most importantly, a smooth blend can be created between the contact area of the orthotic and the inside of the shoe, ensuring that the foot is matched correctly with the surface of the orthotic while walking. This is an essential requirement for patients with diabetes, as well as giving improved results for comfort orthotics.

The new option for heel lift gives extra versatility to the software. It can be used to compensate for

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different leg lengths in the patient or to create orthotics for high-heeled shoes.

The arch is one of the most critical areas within the foot. If it does not flatten sufficiently, it absorbs shock poorly, putting extra stress on the foot, especially on the heel. Alternatively, if the arch flattens too much, the foot will be unstable and the bones can become misaligned. Improved definition in this area within OrthoModel will give a more effective and more comfortable orthotic.

Many orthotics are purely accommodative and so do not require such high levels of customisation. In these cases, the designs are often created from a range of base models that can be adapted with add-ons or cut-outs for the individual patient. This approach has been further supported in the new release with an expanded library of components, plus the ability for the user to add their own shapes.

In addition, it has been made possible for the design of these styles to be “batched.” This allows the operator to input prescriptions for a number of patients, together with the associated base model for each case. The software can then generate all the required designs in a continuous series of calculations. This process can even be carried out overnight, to give maximum productivity for the designer.

Delegates can register for Delcam’s workshops at Foothealth 2009 online at <http://www.pemanagement.com/eventdetails.php?id=69>.

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Delcam to Preview Fastest-ever CAM at EASTEC

May 19 2009

Delcam will preview the forthcoming release of its PowerMILL CAM system at the EASTEC exhibition to be held from 19th to 21st May in Springfield Massachusetts. This new release, version 10, offers the fastest-ever toolpath generation on multi-processor computers, giving greatly increased user productivity. It incorporates the latest background-processing and multi-threading technologies and so uses the full power of recent hardware developments to reduce calculation times and increase output dramatically.

Other enhancements to further increase productivity include reduced memory usage when programming the largest and most complex parts, and improved ordering to give faster cycle times on the machine tool.

With PowerMILL 10, users can prepare data in the foreground while calculating toolpaths in the background. This eliminates the need for the user to wait for each calculation to be completed before he can start preparing the next operation. While this approach can be used with single core equipment, there may be a slowing of the calculation times. The benefits are much greater with computers having two or more cores as there will be no degradation of the processing speed.

Calculations can be queued by the operator and the software will automatically start the next operation as soon as each toolpath is generated. For example, it is no longer necessary to wait for a complete roughing path to be produced before work starts on programming the rest-roughing operation. Similarly, the user can be setting the parameters needed to machine one area of a part, while toolpaths are being calculated in the background for a second area with a different strategy.

The new multi-threading capabilities allow calculations to be divided between the cores in a multi-core machine. This improves calculation times significantly so increasing user productivity, reducing any down-time where machine tools are waiting for NC data and minimizing lead times.

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The extent of the savings will depend on the size and complexity of the part being machined and on the programming strategies being used. Tests at Delcam indicate that a dual core computer will perform raster machining calculations in around 55% of the time taken by a single core machine. A quad core machine will complete the calculation in around 35% of the time and an eight core machine in around 25% of the time.

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Delcam to Show Aerospace Software and Services in Singapore

21 May 2009

Delcam will promote its range of manufacturing software and process development services at the Aerospace Supplier Exchange event to be held at the Singapore Expo from 27th to 29th May. In addition, Hans Kunen, Manager of the South-East Asian Division of Delcam's Professional Services Group, will present a paper on "Trends in Aerospace Manufacturing and MRO" at the associated conference.

Delcam systems have been used, at some stage, on virtually every major aircraft programme in recent years. Companies using the software have undertaken projects in all the various areas that go towards producing a successful aircraft, from developing more fuel-efficient engines, to manufacturing airframe components more effectively, and even in designing more comfortable and more attractive interiors. They have worked on all scales of project, from the manufacture of components for UAVs and helicopters up to the production of engines and airframes for the largest passenger and transport aircraft.

Delcam also supports a large number of MRO operations. These companies use Delcam software to enable the fast, efficient repair or replacement of worn or damaged components. By minimising design and manufacturing times, while guaranteeing the highest levels of quality, Delcam systems allow repairs to be completed as quickly as possible, so minimising the lost operating time of the aircraft.

For more complex manufacturing and repair operations, Delcam's Professional Services Group can develop customised solutions. Most of these projects involve the development of turn-key work cells using Delcam's adaptive machining technology. Adaptive machining uses a combination of machining and inspection technology to allow the production of complex components to a consistently high level of accuracy and quality. Typically, the systems involve a high level of automation, allowing them to be operated by lower-skilled staff.

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Delcam to Support Hardinge Open House

22 May 2009

Delcam will support the Hardinge Open House to be held in Leicester from 9th to 11th June with presentations on its recent CAD/CAM developments. The three days will start with a toolmaking focus on 9th, continue with an aerospace session on 10th and conclude with a medical emphasis on 11th. Delcam is a supplier of software to all three sectors. One of the company's experts will present the latest advances in the featured area on each day.

The Open House will feature the UK debuts of the Bridgeport GX 250 5AX five-axis machine and the Hardinge Super Precision Quest CHNC 42 turning centre. They will be among thirteen different milling, turning and grinding machines on show, machining high-precision, complex mould tools and aerospace,

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medical and motorsport parts.

The staff at Hardinge has used a combination of Delcam's PowerMILL and FeatureCAM software for their CAM programming for many years. The machining and turning demonstrations will all be programmed with one or other of the Delcam systems.

To register for the Hardinge Open House, either call 0116 286 9900, email sales@hardinge.co.uk or visit <http://www.hardinge.co.uk>.

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EMC World 2009 Kicks Off With Joe Tucci and Paul Maritz Keynotes on Future of Enterprise Cloud Computing

May 19 2009

With a challenging economic environment making data center and IT managers more focused on efficiency than ever before, EMC Chairman, President and CEO Joe Tucci today predicted that virtualization will become the foundation for cloud computing. Tucci and VMware President and CEO Paul Maritz kicked off EMC World 2009 with a keynote to thousands of IT administrators, customers, technologists, analysts and journalists about the mega trends currently shaping the IT industry, including the emergence of private cloud computing that virtual data centers enable.

"Traditional data centers are very static -- each application has its own infrastructure -- no matter what its workload," said Tucci. "In a virtual data center, resources are provisioned as needed. This is the type of environment customers are bridging to today. The transformation to a private cloud -- a dynamic, efficient, on-demand and flexible resource -- is taking place now. There are very few, if any, applications that can't work efficiently in a virtual or cloud environment and that is accelerating the move to virtualized data centers."

Maritz added, "By and large, new applications are no longer being written to traditional operating systems. The new frameworks that people are programming allow us to find out in a much more natural way what the application is doing, and we can then use the information to make management better and use underlying resources -- whether it is servers, networks or storage -- more efficiently because we have deeper insight into the application."

Maritz continued, "Whether you want to call it the software mainframe or the private cloud, the concept is the same. How do you get this aggregation of resources to become fundamentally more dynamic, more flexible and more efficient? To do that you have to work in conjunction with those resources, signal information down to them and get information back from them so that you can take the right steps necessary before you start sliding things around. We have made significant investments to take those steps and are delivering that capability to customers today."

Over the past several weeks, both EMC and VMware have unveiled new technologies that enable virtual data centers and private cloud computing. In April, EMC introduced the new EMC(R) Symmetrix(R) V-Max(TM) storage system, a breakthrough new approach to high-end data storage with an innovative new architecture purpose -- built to support thousands of virtual servers. Also in May, VMware introduced VMware vSphere(TM) 4, the industry's first operating system for building the private cloud, enabling the delivery of efficient, flexible and reliable IT as a service. VMware vSphere(TM) 4 is expected to be generally available during the second quarter of 2009. Both are being showcased at the event.

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EMC World, from May 18-21 is a comprehensive educational forum that provides attendees with unparalleled access to learn, challenge, explore and connect experts from EMC and over 100 partners, discussing and demonstrating the technologies and strategies that help customers get the maximum value from their information and their information infrastructures.

Anyone can be alerted to the latest news and important event updates from attendees at EMC World 2009 by following the EMC World Twitter page at: <http://twitter.com/emcworld>. Additionally, starting today, EMC will have a dedicated EMC World 2009 news page containing the latest EMC and partner news releases, event photos, videos and executive presentation slides at: <http://www.emc.com/emcworld2009>.

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46th DAC Announces Keynote Speakers and Special Monday Keynote Panel

20 May 2009

The 46th Design Automation Conference ([DAC](#)) announced its keynote sessions, featuring technology and business luminaries from the electronics industry. Fu-Chieh Hsu, Vice President, Design and Technology Platform of Taiwan Semiconductor Manufacturing Company (TSMC) will deliver the Tuesday Keynote, entitled “Overcoming the New Design Complexity Barrier: Alignment of Technology and Business Models” at 8:30 a.m. on July 28. Bill Dally, Chief Scientist, NVIDIA Corporation will deliver the Wednesday Keynote on “The End of Denial Architecture and the Rise of Throughput Computing” at 11:15 a.m. on July 29. In a special Monday Keynote Panel, “Futures for EDA: The CEO View,” Lip-Bu Tan of Cadence Design Systems, Inc., Walden C. Rhines of Mentor Graphics Corp. and Aart J. de Geus of Synopsys, Inc. will discuss industry futures with respect to markets, business and technology at 4:30 p.m. on July 27. DAC will take place July 26 – 31, 2009 at Moscone Center in San Francisco.

Fu-Chieh Hsu’s keynote will focus on the new complexity barrier facing the semiconductor industry. He will discuss how the industry’s key challenges are no longer discrete issues that can be addressed by point-tool solutions, but instead demand new breakthrough technologies and integrated EDA solutions. His talk will outline a new collaborative business model that is part of the solution required for the IC design and manufacturing ecosystem to collectively meet these emerging challenges.

Bill Dally will address the future of throughput-optimized processors, such as graphics processing units (GPUs), which today have hundreds of cores and will have thousands of cores by 2015. He will describe challenges and opportunities for the EDA world that are inherent in the architecture and programming of future throughput processors, and also give examples of exploiting parallelism and locality drawn from the Imagine and Merrimac projects, from NVIDIA GPUs, and from three generations of stream programming systems.

In the keynote panel, leading EDA CEOs Aart de Geus of Synopsys, Inc., Walden C. Rhines of Mentor Graphics Corp. and Lip-Bu Tan of Cadence Design Systems, Inc. will share their views on the outlook for EDA in light of the current economic climate and the perennial challenges faced by the industry. The panel will be moderated by Juan-Antonio Carballo, a partner with IBM Venture Capital Group and Worldwide Manager, IBM Microelectronics Services.

Speaker Biographies

Fu-Chieh Hsu, Taiwan Semiconductor Manufacturing Company, Ltd. (TSMC)

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Dr. Fu-Chieh Hsu has served as Vice President of Design and Technology Platform for TSMC since April 2006. He is responsible for all design service operations at TSMC and works with the Marketing and R&D departments to provide customers with technology platform solutions.

Dr. Hsu founded Monolithic System Tech. Inc. (MoSys) in 1991 and served as its Chairman and Chief Executive Officer until retiring at the end of 2004. He was Chairman and President of Myson Technology Inc. (now Myson Century Inc.) from 1990 to 1991. Prior to that, Dr. Hsu worked at Integrated Device Tech. Inc. as Chief Technology Officer and Vice President as well as other senior positions. Dr. Hsu also served at Hewlett-Packard Labs.

Dr. Hsu has published or contributed to more than 40 papers and also holds 55 U.S. patents. Dr. Hsu received his Bachelor of Science degree in electrical engineering from the National Taiwan University in 1978, and Master of Science and Ph.D. degrees in electrical engineering and computer sciences from University of California, Berkeley, in 1981 and 1983, respectively.

Bill Dally, NVIDIA

Bill Dally joined NVIDIA in January 2009 as chief scientist, after spending 12 years at Stanford University, where he was chairman of the computer science department. Dally and his Stanford team developed the system architecture, network architecture, signaling, routing and synchronization technology that is found in most large parallel computers today.

Dally was previously at the Massachusetts Institute of Technology from 1986 to 1997, where he and his team built the J-Machine and the M-Machine, experimental parallel computer systems that pioneered the separation of mechanism from programming models and demonstrated very low overhead synchronization and communication mechanisms. From 1983 to 1986, he was at California Institute of Technology (CalTech), where he designed the MOSSIM Simulation Engine and the Torus Routing chip, which pioneered “wormhole” routing and virtual-channel flow control.

Dally is a cofounder of Velio Communications and Stream Processors. He is a member of the National Academy of Engineering, a Fellow of the American Academy of Arts & Sciences, a Fellow of the IEEE and the ACM, and has received the IEEE Seymour Cray Award and the ACM Maurice Wilkes award. He has published over 200 papers, holds over 50 issued patents, and is an author of two textbooks.

He received a bachelor’s degree in Electrical Engineering from Virginia Tech, a master’s in Electrical Engineering from Stanford University and a Ph.D. in Computer Science from CalTech.

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KOMPAS-3D was Showcased at Mould Eurasia 2009

21 May 2009

KOMPAS-3D, Mechanical CAD solution for 3D solid modelling, 2D drafting and design from ASCON, was presented at Mould Eurasia 2009, 3th. Bursa Mold Technologies and Supplier Industry Fair by Softline, company's partner and KOMPAS registered distributor in Turkey. Lots of presentations of KOMPAS-3D, KOMPAS-Graphic and software's add-ons were offered at the event, which was the most comprehensive meeting of the country and its region. The fair was devoted to mould manufacturing and PDM / PLM, automotive related industry, autotechnics, mould & die industry, mould & die processing machinery and sheet metal technologies. Many fruitful meetings were held with representatives of industrial enterprises and dozens of Demo CD's for further familiarization and training were distributed at the fair.

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New Nonlinear and Thermal Analysis Capabilities in CATIA V: Live May 27th e-Seminar

21 May 2009

Simulate nonlinear and thermal behavior in CATIA V5 to improve product performance.

Join this live session to learn how Dassault Systèmes SIMULIA Extended Analysis can help you perform design-analysis iterations on parts and assemblies. You'll also discover how this solution lets designers create and simulate finite element models while maintaining associativity with the master design in CATIA V5.

This live e-Seminar will showcase basic nonlinear analysis, thermal analysis, and thermal stress analysis-now available for the first time in CATIA V5.

[Register now](#) for our live e-Seminar on May 27, 2009 at 1:00 PM ET/10:00 AM PT and see the power of SIMULIA Extended Analysis.

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PTC Live 3D CAD “Lunch and Learn” Event Webinar Series

May 2009

Join PTC for [a webinar series](#) that presents fast and easy ways to modernize your product development process with 3D CAD.

In today's challenging environment, one needs to reduce product costs and development time. Learn how to overcome:

- Competition providing less and less time to release new products.
- New manufacturing techniques, materials, and suppliers complicating development.
- This year's products demanding more style and design complexity.
- Design and manufacturing that must be integrated from teams all over the world.
- The time and costs of physical prototyping.

Register Now

May 20 at 1PM EST	Move From 2D to Explicit 3D Design: The Fastest Way to 3D
May 21 at 1PM EST	Eliminate Costly Physical Prototypes with Digital Prototyping

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Sescoi WorkNC®DENTAL showcased at Rapid.Tech

May 18 2009

Sescoi will be demonstrating its new WorkNC DENTAL software at the Rapid.Tech show in Erfurt,

CIMdata PLM Industry Summary

Germany on 26th and 27th May (Hall 2, booth 401). With a special focus on rapid manufacturing in medicine and medical technology, the exhibition will be the ideal venue for medical and dental professionals to learn about the latest advances in this sector.

WorkNC DENTAL 'One button CAM' has been designed for ease of use, and benefits from SESCOI's 20 year R&D program. It has been developed and tested in collaboration with leading dental professionals and professional bodies. Its automatic 3 and 5-axis toolpaths combine with technology for nesting and orientating prosthetic implants. Additionally, tools for adding support pins and identification markings make the software an ideal solution for rapid prosthesis manufacture.

STL and native dental CAD formats are imported into WorkNC DENTAL ready for 'machining wizards' to guide the user through the manufacturing process. The system automatically selects tools, machining sequences and cutting conditions optimized for particular types of material, such as titanium and zirconium, and for particular prostheses, such as copings and bridges. The intricate nature of some implants requires the use of 5-axis machining methods to reach every part of the job. Traditionally requiring highly skilled programmers, WorkNC DENTAL overcomes this problem with its automated 5-axis software. Intelligence within the system considers the limitations and kinematics of the machine tool itself to automatically produce reliable and collision free 5-axis toolpaths.

As part of the 'CAD/CAM and Rapid Prototyping in Dental Technology' conference at the show, SESCOI will be running a seminar in collaboration with one of its customers, Antonius Köster GmbH. SESCOI will demonstrate the technical and commercial benefits of WorkNC DENTAL.

Producing dental prostheses is a skilled process. By using WorkNC DENTAL, dental professionals will be able to provide patients with better quality prosthetic implants faster without needing to become experts in machining technology.

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Surfware, Inc. and Data Flute CNC to Showcase TrueMill® and SSI-5 Series Cutters at EASTEC, 2009

18 May 2009

[Surfware, Inc.](#) and Pittsfield, Massachusetts-based Data Flute CNC announced that new SSI-5 Data Flute tools, which complement TrueMill's patented cutter path, will be demonstrated at the Mazak booth # 2111 at EASTEC, 2009.

Reduced cycle times will be demonstrated for Titanium 6AL4V, Aluminum 6061 and Steel 1018. For example, Titanium 6AL4V will be machining at a rate of 115 IPM with ½" dia. endmill at a 1.000" depth of cut, achieving peak material removal rates of 4.0 in³/min.

"The live demos at EASTEC will visibly demonstrate TrueMill's ability to greatly increase material removal rates and extend tool life on a variety of metals," says Stephen A. Diehl, President and CEO of Surfware, Inc. "We are very pleased that Data Flute is offering a line of tools that further extends TrueMill's industry-changing capabilities."

According to Cliff Flynn, Director of Research and New Product Development for Data Flute, "The SSI series five-flute variable tool will be used for the titanium cutting demos. The SSI-5 series has patented geometry which enables us to not only cut the titanium faster but also to helix into the material as well. We are confident that TrueMill and our tools are a powerful combination for productivity."

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“The key to TrueMill’s high productivity is its ability to cut fast and deep,” adds Diehl. “What might take a traditional toolpath four passes to get down to full depth will only take a single pass with TrueMill. High quality tools like the SSI-5 complement TrueMill in achieving the highest levels of productivity.”

We encourage people to check out the exciting Data Flute/TrueMill demos at the Mazak booth and also, for more information, visit our SURFCAM/DM Solutions booth #5918 at EASTEC.

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VISTAGY’s Dr. Olivier Guillermin to Present in Lucintel Webinar: “Emerging Technology Trends in Wind Energy Market”

21 May 2009

VISTAGY, Inc. announced that Dr. Olivier Guillermin, VISTAGY director of product market and strategy, will present in Lucintel’s May 28 Webinar entitled, “Emerging Technology Trends in Wind Energy Market.” The Webinar commences at 9 AM EDT and Dr. Guillermin, whose talk is entitled, “Novel Design and Manufacturing Methods for Wind Blades,” will speak from 10:30-11:00. Registration information is available at <http://www.lucintel.com/webinar-wind.pdf>.

As the size of wind turbine blades continues to grow (the longest blades now are 150 to 200 feet), current materials, design methodologies and manufacturing processes are reaching their limit. The wind industry will require new tools and innovative processes to rapidly develop and produce larger blade designs that are cost-effective and reliable.

In his presentation, Dr. Guillermin will discuss how wind energy organizations can produce best-in-class products by:

- Using composites engineering software that is fully integrated into commercial 3D CAD environments, including CATIA V5, NX and Pro/ENGINEER
- Using design software that enables a concurrent design and analysis process that supports all finite element analysis systems, including those from MSC.Software and ANSYS
- Working with a company that has extensive experience partnering with manufacturing software and equipment vendors to support a comprehensive solution and seamless workflow from design to resin infusion simulation, automated cutting, laser projection and automated material deposition
- Working in an open and flexible engineering environment that enables faster innovation and response to customer objectives, including cost and weight reduction, improved aerodynamic and structural performance, improved processes for managing changes and risk mitigation

Other topics covered will be a molder’s view of composites in the U.S. wind energy market, new epoxy systems for industrial rotor blade production, emerging wind energy technology trends and applying rotorcraft design knowledge to the wind blade industry.

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VISTAGY VP Scott Carlyle to Give Aerostructures Engineering Presentation at Siemens PLM Connection Americas User Conference 2009

20 May 2009

CIMdata PLM Industry Summary

VISTAGY, Inc. announced that Scott Carlyle, vice president of worldwide sales, will give a presentation entitled, “**Composite Aircraft Assemblies: The Complete Solution**” on Monday, June 1 at 5:20 PM at the **Siemens PLM Connection Americas User Conference 2009** in Nashville, Tenn.

Composite aerostructures are continually getting more complex because aircraft assemblies have volumes of highly interdependent design information. Creating the initial designs and making subsequent changes to these complex aerostructures is both time-consuming and error-prone. Mr. Carlyle’s presentation will discuss how a tightly integrated suite of software and services for developing aerostructures greatly increases the design and manufacturing efficiency as well as the quality of complex composite aircraft assemblies.

”Developing complex composites structures and highly engineered assemblies presents significant challenges,” said Mr. Carlyle. “But the key to overcoming these challenges is realizing that the composite definition and assembly definition of an airframe are tightly linked and must be considered as an integrated system.”

About VISTAGY AeroSuite™

The **VISTAGY AeroSuite™** is a comprehensive engineering solution that enables aircraft manufacturers to more effectively manage the evolving product development process and deliver optimized parts and assemblies in less time, at lower cost. The AeroSuite consists of **FiberSIM®** composites engineering software, **SyncroFIT™** software for assembly development and the **Quality Planning Environment™**. By combining these software products with the company’s consulting services and partnerships with industry leaders, VISTAGY is able to offer a complete solution for developing aerostructures—spanning analysis, design, manufacturing, assembly and quality planning.

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Financial News

Autodesk Reports First Quarter Fiscal 2010 Financial Results

21 May 2009

[Autodesk, Inc.](#) reported financial results for the first quarter of fiscal 2010.

Revenue was \$426 million, a decrease of 29 percent compared to the first quarter of fiscal 2009.

GAAP diluted loss per share was \$0.14, compared to earnings of \$0.41 per diluted share in the first quarter last year.

Non-GAAP diluted earnings per share in the first quarter was \$0.18, compared to \$0.50 per diluted share in the first quarter last year. A reconciliation of the GAAP and non-GAAP results is provided in the tables within this press release.

Autodesk began implementing a previously announced expense reduction plan, which is anticipated to result in pre-tax cost savings of approximately \$120 million in fiscal 2010.

"Our revenue results for the quarter continue to reflect the global economic downturn, which is impacting our business on almost every front," said [Carl Bass](#), Autodesk president and CEO. "We made significant progress in our continued effort to improve our cost structure and ongoing efficiencies, which resulted in lower than expected operating costs for the quarter and greater than expected earnings per share and cash flow."

CIMdata PLM Industry Summary

Operational Overview

By geography, EMEA revenue was \$167 million, a decrease of 35 percent over the first quarter of fiscal 2009 as reported, and a decrease of 24 percent on a constant currency basis. Revenue in the Americas decreased 15 percent compared to the first quarter of fiscal 2009, to \$164 million. Revenue in Asia Pacific was \$95 million, a decrease of 36 percent as reported and on a constant currency basis year-over-year. Revenue from emerging economies decreased 42 percent, compared to the first quarter of fiscal 2009 to \$59 million and represented 14 percent of total revenue.

Combined revenue from Autodesk's model-based 3D design solutions decreased 16 percent compared to the first quarter of fiscal 2009 to \$122 million and comprised 29 percent of total revenue for the quarter. Revenue from 2D horizontal and vertical products decreased 39 percent to \$208 million as compared to the first quarter of fiscal 2009. Combined revenue from AutoCAD and AutoCAD LT, two of our important 2D horizontal products, declined 42 percent.

Further Reducing Expenses

Autodesk began implementing its new expense reduction plan, which was announced in April. The plan is anticipated to result in pre-tax cost savings of approximately \$120 million in fiscal 2010. Combined with the expense reduction initiatives announced in January, Autodesk anticipates achieving approximately \$250 million in total cost savings in fiscal 2010, as compared to fiscal 2009.

The new expense reduction initiatives will be achieved by reducing discretionary spending and contingent labor, and through a restructuring plan. The restructuring plan will result in a staff reduction of approximately 430 and the closure of certain facilities. The staff reduction will be partially offset by the hiring of approximately 100 key positions in select areas.

The company anticipates taking a pre-tax restructuring charge in the range of \$33 million to \$40 million. Approximately \$29 million to \$35 million in pre-tax charges will be taken in the second quarter of fiscal 2010. Most of the remaining charge will be taken in the third quarter of fiscal 2010.

"While we have already achieved significant cost savings, it was clear that additional measures had to be taken in order to better align our cost structure with current revenue expectations," Bass continued. "The ultimate goal of these measures is to reduce our near-term expenses as well as further improve our operational efficiencies over the long-term. We will continue to balance these cost reduction actions with strategic investments as we navigate the current economic cycle and position Autodesk for long-term success."

Business Outlook

The following statements are forward-looking statements which are based on current expectations and which involve risks and uncertainties some of which are set forth below. Autodesk is only providing revenue and earnings per share guidance for its fiscal second quarter of 2010 at this time.

Second Quarter Fiscal 2010

Net revenue for the second quarter of fiscal 2010 is expected to be in the range of \$395 million and \$420 million. GAAP loss per diluted share is expected to be in the range of \$0.09 and \$0.03. Non-GAAP earnings per diluted share are expected to be in the range of \$0.15 and \$0.20 and exclude restructuring related charges of between \$0.10 and \$0.11, \$0.08 related to stock-based compensation expense and \$0.05 for the amortization of acquisition related intangibles.

Earnings Conference Call and Webcast

CIMdata PLM Industry Summary

Autodesk will host its first quarter conference call today at 5:00 p.m. EDT.

A replay of the broadcast will be available at 7:00 pm EDT at <http://www.autodesk.com/investors>. This replay will be maintained on our website for at least twelve months.

Click [here](#) for the complete press release including financial tables.

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Cimatron's First Quarter 2009 Results Release Scheduled for May 26th, 2009 Before Markets Open

May 18 2009

Cimatron Limited announced that it will be releasing its first quarter 2009 financial results on Tuesday, May 26th, 2009, before the US markets open.

Cimatron's management will host a conference call on Tuesday, May 26th, at 9:00 EST, 16:00 Israel time. On the call, management will review and discuss the results, and will also be available to answer questions by investors.

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

USA: +1-888-7233-164

International: +972-3-9180610

Israel: +972-3-9180610

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

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HP Reports Second Quarter 2009 Results

19 May 2009

Net revenue down 3%, or up 3% in local currency, from a year earlier to \$27.4 billion

GAAP operating profit down 12% to \$2.3 billion; GAAP earnings per share \$0.70, down from \$0.80 a year earlier

Non-GAAP operating profit up 1% to \$2.8 billion; non-GAAP earnings per share \$0.86, down from \$0.87 a year earlier

GAAP and non-GAAP diluted EPS include \$0.02 of charges related to a patent dispute

Record cash flow from operations of \$5.0 billion

Services more than doubled operating profit to \$1.2 billion

HP announced financial results for its second fiscal quarter ended April 30, 2009, with net revenue of \$27.4 billion, down 3% from a year earlier and up 3% when adjusted for the effects of currency.

In the second quarter, GAAP operating profit was \$2.3 billion and GAAP diluted earnings per share (EPS) was \$0.70, down from \$0.80 in the prior-year period. Non-GAAP operating profit was \$2.8 billion, with non-GAAP diluted EPS of \$0.86, down from \$0.87 in the prior-year period. Non-GAAP

CIMdata PLM Industry Summary

financial information excludes \$382 million of adjustments on an after-tax basis, or \$0.16 per diluted share, related primarily to amortization of purchased intangible assets, restructuring charges and acquisition-related charges.

“Disciplined focus on operational efficiencies and execution drove record cash flow,” said Mark Hurd, HP chairman and chief executive officer. “Our services business continued to deliver strong profitability with an increased deal pipeline and the EDS integration tracking ahead of schedule.”

	Q2 FY09	Q2 FY08	Y/Y
Net revenue (\$B)	\$ 27.4	\$ 28.3	-3%
GAAP operating margin	8.4%	9.2%	(0.8 pts)
GAAP net earnings (\$B)	\$ 1.7	\$ 2.1	-17%
GAAP diluted EPS	\$ 0.70	\$ 0.80	-13%
Non-GAAP operating margin	10.4%	10.0%	0.4 pts
Non-GAAP net earnings (\$B)	\$ 2.1	\$ 2.2	-6%
Non-GAAP diluted EPS	\$ 0.86	\$ 0.87	-1%

Information about HP’s use of non-GAAP financial information is provided under “Use of non-GAAP financial information” below. Unless otherwise noted, all growth rates included in the narrative below reflect year-over-year comparisons.

Revenue grew 9% in the Americas to \$12.1 billion. Revenue declined 11% in Europe, the Middle East and Africa and 10% in Asia Pacific to \$10.6 billion and \$4.7 billion, respectively. When adjusted for the effects of currency, revenue grew 12% in the Americas while declining 2% in Europe, the Middle East and Africa and 5% in Asia Pacific. Revenue from outside of the United States in the second quarter accounted for 64% of total revenue, with revenue in the BRIC countries (Brazil, Russia, India and China) declining 12% over the prior-year period while accounting for 9% of total HP revenue.

Services

Services revenue increased 99% to \$8.5 billion due primarily to the EDS acquisition. Infrastructure Technology Outsourcing posted revenue of \$3.8 billion while Technology Services, Application Services and Business Process Outsourcing posted revenue of \$2.4 billion, \$1.5 billion and \$709 million, respectively. Operating profit was \$1.2 billion, or 13.8% of revenue, up from \$507 million, or 11.9% of revenue, in the prior-year period. The EDS integration is tracking ahead of plan.

Enterprise Storage and Servers

Enterprise Storage and Servers (ESS) reported total revenue of \$3.5 billion, down 28%. Storage revenue declined 22% with the midrange EVA product line down 21%. Industry Standard Server revenue and Business Critical Systems revenue declined 29% each, while ESS blade revenue was down 12%. Operating profit was \$250 million, or 7.2% of revenue, down from \$655 million, or 13.7% of revenue, in the prior-year period.

HP Software

HP Software revenue declined 15% to \$880 million. Business Technology Optimization and Other Software revenue declined 15% each. Operating profit was \$157 million, or 17.8% of revenue, up from \$104 million, or 10.0% of revenue, in the prior-year period.

Personal Systems Group

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Personal Systems Group (PSG) posted flat unit shipments in a challenging environment and attained the leading market position in PCs in every region. PSG revenue declined 19% to \$8.2 billion. Notebook revenue for the quarter was down 13%, while Desktop revenue declined 24%. Commercial client revenue was down 22%, while Consumer client revenue decreased 16%. Operating profit was \$374 million, or 4.6% of revenue, down from \$544 million, or 5.4% of revenue, in the prior-year period.

Imaging and Printing Group

Imaging and Printing Group (IPG) revenue declined 23% to \$5.9 billion. Supplies revenue was down 14% due in part to channel inventory realignment, while Commercial hardware revenue and Consumer hardware revenue declined 40% and 31%, respectively. Printer unit shipments decreased 27%, with Commercial printer hardware units down 36% and Consumer printer hardware units down 23%. Operating profit was \$1.1 billion, or 18.2% of revenue, versus \$1.2 billion, or 16.0% of revenue, in the prior-year period.

HP Financial Services

HP Financial Services (HPFS) reported revenue of \$641 million, down 6% from the prior-year period. Financing volume increased 7%, and net portfolio assets declined 1%. Operating margin was 7.2% of revenue, up from 6.9% in the prior-year period.

Asset management

HP generated \$5.0 billion in cash flow from operations for the second quarter. Inventory ended the quarter at \$5.7 billion, down 7 days. Accounts receivable of \$14.7 billion was up 5 days. Accounts payable ended the quarter at \$11.4 billion, down 6 days. HP's dividend payment of \$0.08 per share in the second quarter resulted in cash usage of \$192 million. HP utilized \$801 million of cash during the second quarter to repurchase approximately 24 million shares of common stock in the open market. HP exited the quarter with \$13.0 billion in gross cash.

Outlook

HP expects third quarter FY09 revenue to be approximately flat to down 2 percent sequentially.

Third quarter FY09 non-GAAP diluted EPS is expected to be approximately \$0.88 to \$0.90. Third quarter FY09 non-GAAP diluted EPS estimates exclude after-tax costs of approximately \$0.22 to \$0.24 per share, related primarily to the amortization of purchased intangibles and restructuring charges. On a GAAP basis, third quarter FY09 diluted EPS is expected to be approximately \$0.64 to \$0.68.

HP estimates full-year FY09 revenue will decline approximately 4 to 5 percent from the prior-year period.

Full year FY09 non-GAAP diluted EPS is expected to be approximately \$3.76 to \$3.88. FY09 non-GAAP diluted EPS estimates exclude after-tax costs of approximately \$0.72 to \$0.74 per share, related primarily to the amortization of purchased intangibles and restructuring charges. On a GAAP basis, full year FY09 diluted EPS is expected to be approximately \$3.02 to \$3.16.

More information on HP's quarterly earnings, including additional financial analysis and an earnings overview presentation, is available on HP's Investor Relations website at <http://www.hp.com/investor/home>.

HP's Q2 FY09 earnings conference call is accessible via an audio webcast at <http://www.hp.com/investor/q22009webcast>.

EDS acquisition

HP completed its acquisition of Electronic Data Services Corporation on August 26, 2008. Results of, and comparisons to, the three and six months ended April 30, 2008 do not include the results of operations of EDS for those prior periods.

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Synopsys Posts Financial Results for Second Quarter Fiscal Year 2009

20 May 2009

Synopsys, Inc. reported results for its second quarter ended April 30, 2009.

For the second quarter of fiscal 2009, Synopsys reported revenue of \$336.8 million, a 3.8 percent increase compared to \$324.6 million for the second quarter of fiscal 2008.

"Synopsys continues to execute well in an environment that still shows signs of economic stress," said Aart de Geus, chairman and CEO of Synopsys. "Customers are choosing Synopsys for its strong technology, global support, continued investment in the future, and financial strength."

GAAP Results

On a generally accepted accounting principles (GAAP) basis, net income for the second quarter of fiscal 2009 was \$48.3 million, or \$0.33 per share, compared to \$39.4 million, or \$0.27 per share, for the second quarter of fiscal 2008.

Non-GAAP Results

On a non-GAAP basis, net income for the second quarter of fiscal 2009 was \$65.9 million, or \$0.45 per share, compared to non-GAAP net income of \$59.7 million, or \$0.41 per share, for the second quarter of fiscal 2008. Reconciliation between GAAP and non-GAAP results is provided at the end of this press release.

Financial Targets

Synopsys also provided its financial targets for the third quarter and full fiscal year 2009. These targets constitute forward-looking information and are based on current expectations. For a discussion of factors that could cause actual results to differ materially from these targets, see "Forward-Looking Statements".

Third Quarter of Fiscal Year 2009 Targets:

Revenue: \$342 million - \$350 million

GAAP expenses: \$284.5 million - \$300 million

Non-GAAP expenses: \$261 million - \$271 million

Other income and expense: \$0 - \$3 million

Tax rate applied in non-GAAP net income calculations: approximately 27 percent

Fully diluted outstanding shares: 144 million - 149 million

GAAP earnings per share: \$0.26 - \$0.31

Non-GAAP earnings per share: \$0.40 - \$0.42

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Revenue from backlog: greater than 90 percent

Full-Year Fiscal Year 2009 Targets:

Revenue: approximately \$1.35 billion - \$1.38 billion

Other income and expense: \$14 million - \$18 million

Tax rate applied in non-GAAP net income calculations: approximately 27 percent

Fully diluted outstanding shares: 144 million - 149 million

GAAP earnings per share: \$1.11 - \$1.26

Non-GAAP earnings per share: \$1.62 - \$1.72

Cash flow from operations: \$170 million - \$190 million (excludes potential impact of a tentative settlement with the Internal Revenue Service, described below)

In the second quarter, the Company reached a tentative settlement with the IRS that would resolve a dispute regarding its 2002-2004 returns, primarily associated with the acquisition of Avant!. The tentative settlement is subject to further approval by the government. If approved, we do not expect a material impact to the Company's income statement. However, we do expect it to result in a cash payment to the IRS of approximately \$50 million, most likely within the next 12 months. If the tentative settlement is approved, this payment would be fully offset by tax reductions in future years.

GAAP Reconciliation

Synopsys continues to provide all information required in accordance with GAAP, but believes evaluating its ongoing operating results may not be as useful if an investor is limited to reviewing only GAAP financial measures. Accordingly, Synopsys presents non-GAAP financial measures in reporting its financial results to provide investors with an additional tool to evaluate Synopsys' operating results in a manner that focuses on what Synopsys believes to be its ongoing business operations and what Synopsys uses to evaluate its ongoing operations and for internal planning and forecasting purposes. Synopsys' management does not itself, nor does it suggest that investors should, consider such non-GAAP financial measures in isolation from, or as a substitute for, financial information prepared in accordance with GAAP. Synopsys' management believes it is useful for itself and investors to review, as applicable, both GAAP information that includes: (i) share-based compensation; (ii) the amortization of acquired intangible assets and in-process research and development charges; and (iii) the income tax effect of the non-GAAP pre-tax adjustments from the provision for income taxes; and the non-GAAP measures that exclude such information in order to assess the performance of Synopsys' business and for planning and forecasting in subsequent periods. Whenever Synopsys uses such a non-GAAP financial measure, it provides a reconciliation of the non-GAAP financial measure to the most closely applicable GAAP financial measure. Investors are encouraged to review the related GAAP financial measures and the reconciliation of these non-GAAP financial measures to their most directly comparable GAAP financial measure as detailed in the [full press release](#) with financial tables.

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Implementation Investments

ANSYS In The Spotlight With Festival Stage Engineering Simulations

May 18 2009

ANSYS, Inc. announced that an on-location stage in the recent James Bond film was engineered using its software. In designing the world's largest outdoor floating stage, on Europe's Lake Constance, engineers faced a number of challenges in optimizing the structure to meet safety and other civil engineering requirements — and all without the need to expend time and money to construct a prototype for physical testing.

“In constructing the floating stage, there is obviously no opportunity for building prototypes or making design changes along the way,” said civil engineer Gerhard Lener. “Also, the opening date of the festival is set long in advance, so the completion date cannot be changed. The safety of the singers, the stage crew and the audience depends upon getting the design right the very first time. The use of ANSYS gave the entire project team confidence in the analysis results.”

The stage originally was designed for Austria's Bregenz Festival, which builds a stunning new platform every two years for open-air opera performances. Sited at the edge of a lake, the structure is 150 feet high by 100 feet wide. The stage's scenery features an imposing representation of a human eye that serves both as surrealistic backdrop and metaphor. Far more than a static background, the 30-foot-diameter eye was engineered to rotate and fold out via hydraulics, creating a horizontal performance space. The iris also serves as a screen for special visual effects and a door that opens to reveal yet another scene.

The entire set weighs over 450 tons. When the decision was made to film the James Bond movie *Quantum of Solace* with the festival stage as part of the plot, 1.5 tons of additional lights had to be installed in the structure. This required a separate simulation, which indicated that the structure needed to be strengthened.

Engineer Lener used software from ANSYS to ensure the stage could withstand environmental stresses such as wind, safely support props, actors and equipment, and survive the construction assembly process. CADFEM, an ANSYS channel partner in Germany and the competence center for finite element modeling (FEM) in that region, supported Lener in his use of the software. One of the biggest challenges was providing the strength needed to safely move the eye while staying within the weight limits of the foundation. Further challenges resulted from the components' materials. The eye structure is a composite, a steel frame with a wood outer surface. The composite construction increased the complexity of the analysis, since connecting the steel and wood together provides additional stiffness. By using the nonlinear capabilities of ANSYS software, Lener was able to accurately predict the physics involved in these complex analysis tasks.

“The broad set of analysis capabilities in software from ANSYS provided the ideal toolset to analyze the stage because it let us evaluate the structure from every possible standpoint within a single environment. In my work on other floating stages for the Bregenz festival, I have encountered a very wide range of structural analysis problems, and technology from ANSYS has been able to handle every one,” said Lener.

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Berkeley Design Automation Analog FastSPICE™ Platform Adopted by Panasonic for Mass-Production of Mixed-Signal LSIs

19 May 2009

[Berkeley Design Automation Inc.](#), provider of the Analog FastSPICE™ unified circuit verification platform for advanced analog and RF integrated circuits (ICs), announced that Panasonic Corporation, a world leader in products, systems, and components for consumer electronics, has selected the company's Analog FastSPICE™ platform for use in their production flow for verification of mixed-signal integrated circuits.

"We spend a significant amount of effort on mixed-signal verification and noise analysis of mixed-signal integrated circuits," said Masahiko Matsumoto, Director of the Analogue LSI Business Unit, Semiconductor Company, Panasonic Corporation. "After a rigorous evaluation of the Analog FastSPICE platform on a variety of mixed-signal integrated circuits, we have decided to deploy this platform for mass-production use in Panasonic."

Analog FastSPICE is the industry's only unified circuit verification platform for analog, mixed-signal, and RF design. Always delivering true SPICE accurate results, it provides 5x-10x higher performance than traditional SPICE, >1 million-element capacity, and the industry's only comprehensive noise analysis. The AFS Platform is a single executable that uses advanced algorithms and numerical analysis to rapidly solve the full-circuit matrix and original device equations without any shortcuts. AFS Platform tools include: AFS Nano SPICE simulator, Analog FastSPICE circuit simulator, Noise Analysis Option™ device noise analyzer, and RF FastSPICE™ multi-tone periodic analyzer.

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Cadence Encounter Digital IC Design Platform Adds 200 New Customers, including Ricoh and Siano

18 May 2009

Cadence Design Systems, Inc. announced that it has added more than 200 customers to its growing list of [Cadence® Encounter® Digital Implementation](#) IC design platform users over the past 24 months. The Cadence Encounter Digital Implementation (EDI) System, which was added to the product suite last December, is achieving wide-scale adoption. Most recently, while using EDI System Ricoh Co. Ltd., and Siano Mobile Silicon each reported advantages in productivity, design performance, area reduction and power consumption when designing large-scale, high-performance advanced-node digital designs with both complex low power and mixed-signal requirements.

Imaging and digital office solutions products place a wide range of demands on semiconductor design, including the need for higher efficiency, miniaturization and reduced power consumption. Ricoh's skilled CMOS analog, image processing, and information communications designers chose EDI System to ensure they would achieve the required high quality of silicon and fast time to market.

"Achieving the area, performance and power consumption targets becomes more challenging with every new project, and it is critical that our design software can scale to meet these increasing complexities," said Kazunobu Sugaya, Manager, Design Engineering Section, Imaging System LSI Development Center, Electronic Devices Company, Ricoh Co. Ltd. "We are pleased with the Encounter Digital Implementation System's native multi-mode, multi-corner timing optimization, signal integrity, and end-to-end multi-CPU design flow, which enable us to reach design closure more quickly than ever

before.”

At Siano, a maker of highly integrated silicon receivers for the mobile digital TV (MDTV) market, designers successfully develop high-performance chips to meet extremely challenging power consumption and die-size constraints. A multidisciplinary team of mixed-signal, power and wireless design specialists combined the company’s proprietary algorithms with the Encounter Digital Implementation System and the CPF-based Cadence Low-Power Solution to produce leading-edge mobile entertainment technology.

“After our evaluation, we chose to adopt the full Encounter Digital Implementation and signoff system, as well the full Cadence Low-Power Solution,” said Neil Feldman, director of RF and VLSI chip design at Siano. “The Encounter flow allows us to quickly achieve design closure and differentiate our products with a complex power shut-off methodology and a unique multi-supply voltage scheme. This project clearly demonstrated the benefits of Encounter technology and the Common Power Format.”

“We are seeing design teams achieve better productivity, better quality of silicon, and faster time to market after switching to EDI System’s integrated and scalable design closure solution,” said Chi-Ping Hsu, senior vice president of research and development for the Implementation Products Group at Cadence. “It is gratifying to see a surge of technology-leading companies turn to Cadence to achieve differentiated results for their designs.”

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Catalog Data Solutions Parametric Catalog and CAD Downloads Selected by Mamco Precision Switches

19 May 2009

Catalog Data Solutions ([CDS](#)) announced that Mamco Precision Switches and their web site designer Top Floor Technologies have selected its CDS Catalog and CDS ModelServer products. The [CDS Catalog](#) provides parametric product search and frontends the [CDS CAD ModelServer](#) for CAD Downloads. Both have been integrated into the new Mamco Precision Switches website created by Top Floor Technologies.

[MAMCO Precision Switch](#) is a pressure switch manufacturer that produces a family of ultra-low pressure, vacuum, and differential switches that deliver higher set point stability, significantly lower contact resistance, and longer life cycles than similar models offered by other manufacturers. “A modern and easy to navigate website is essential for presenting our products online. Our new website uses the best technology available to enable easy product search and selection, as well as making CAD downloads of our parts available. These features will save our customers time in locating and specifying the right products,” said Mark Vergari, Vice President, Mamco Precision Switches. “

“A critical factor in the success of any website is providing the visitors an easy path to the information they want and then making it easy for them to take the next step in the buying process,” said Jim Bernthal, President and owner of [Top Floor Technologies](#). “In the industrial market that often means providing users the ability to search a product catalog by a specific specification parameter and then providing them an easy way to download a CAD model and/or submit a ‘Request for Quote’. Catalog Data System’s interactive catalog provides this exact type of functionality making it a natural fit for a company like Mamco Precision Switches.”

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CIMdata PLM Industry Summary

Gardner Denver to Implement aPriori for Product Cost Management

20 May 2009

aPriori announced that [Gardner Denver](#), a leading provider of compressed air and gas, vacuum and fluid transfer technologies to industries throughout the world, has selected the aPriori Product Cost Management Platform to support its product cost reduction initiatives. With aPriori, Gardner Denver will increase its ability to drive costs out of its products both pre- and post-production using real-time product cost assessments that are generated automatically throughout design, sourcing and manufacturing processes.

“aPriori will help Gardner Denver continue to develop and deliver highly innovative products that meet our internal cost targets by enabling instant visibility to the costs of each and every tradeoff decision our engineers make,” said Neville Kapadia, Vice President of Product Development at Gardner Denver. “In a pilot test of the system, our employees used aPriori to identify some impressive savings on our products. We expect those results to increase significantly when using aPriori full-time.”

“With aPriori, companies know how much a product should cost to manufacture at every point in the product development process. With real-time cost feedback, employees make more-informed decisions that ultimately result in lower product costs,” said Stephanie A. Feraday, President and CEO of aPriori.

The [aPriori](#) Product Cost Management Platform is the first software solution to provide discrete manufacturers and product companies with real-time, predictive and precise product cost assessments throughout the development and production process. aPriori’s cost management capabilities empower organizations to identify quantifiable savings in material, tooling, labor and overhead when evaluating alternative designs, manufacturing processes and sources.

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Global Unichip Expands Implementation of Dassault Systèmes Solution to Manage IC-Design Operation Process

21 May 2009

Dassault Systèmes ([DS](#)) announced that Global Unichip Corp., a leading fabless ASIC and SoC design foundry has expanded the deployment of ENOVIA PLM solutions to streamline service and design lifecycle management. By facilitating cross-enterprise process integration, the implementation will enable GUC to enhance its core competency with flexible order management capabilities helping to increase competitiveness amid the global downturn.

“GUC chose Dassault Systèmes as a PLM service partner based upon its capability to create a robust, powerful platform and provide best-practice, highly customized solutions through a professional service team”, said Albert Li, Design Development Division Director, GUC Taiwan. “IC design and implementation require tight control of quality and yield rate for the optimal cost scenario. Efficiency is essential. It is a must that we complete all the design project deliverables before the delivery time. ENOVIA PLM solution has provided an effective way for GUC to address these challenges.”

With more than 100 annual projects in development across 20 distributed Lotus Notes systems incorporating offices in Taiwan, China, Japan, South Korea, North America and Europe, GUC faced the challenge of effectively managing data in a highly complex environment. The ENOVIA PLM solution has enabled the company to create a centralized view of the company’s information facilitating improved coordination and collaboration among IP providers, IC design partners, wafer manufacturers,

IC testers and packagers.

By implementing ENOVIA PLM, GUC has refined and enhanced its design operation process. Purchase order reporting time has been reduced dramatically owing to increased visibility and synchronization of information processing that enables real-time updates of data for both users within the enterprise and business partners. Meanwhile, the company's issue resolution rate more than doubled as project management and execution improved considerably by means of common working platform. And automatically generated reports have been vital in reducing complexity and keeping track of project progress and exceptions.

"Dassault Systèmes PLM solution has enabled GUC to increase its design-win confidence through offering competitive pricing supported by precise cost estimation," noted Bernard Parrenin, general manager of Dassault Systèmes Taiwan. "At the same time, the customer has been successful in lowering expenditure by productive utilization of project manpower that reduces superfluous costs incurred from potential project delays. The ability to forecast shipment volume and schedule has also maximized GUC's price negotiation advantage."

About GUC

Global Unichip Corp. (GUC), a dedicated full service SoC (System On Chip) Design Foundry based in Taiwan, was founded in 1998. GUC is now publicly traded on the Taiwan Stock Exchange under the symbol 3443. With 295MUSD revenue and the 6th place of Taiwan fabless design companies, GUC has proved to be a successful company to provide total solutions from silicon-proven IPs to complex time-to-market SoC turnkey services. GUC is committed to providing the most advanced and the best price-performance silicon solutions through close partnership with TSMC, GUC's major shareholder, and other key packaging and testing power houses. GUC has established a global customer base throughout Greater China, Japan, Korea, North America, and Europe.

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INSIDE Contactless Improves Global Collaboration and Design Cycle Efficiency with Dassault Systèmes

May 18 2009

Dassault Systèmes (DS) announced that INSIDE Contactless, a manufacturer of open-standard contactless payment and Near Field Communication (NFC) semiconductors, has successfully implemented the ENOVIA Synchronicity DesignSync solution, which is part of the V6 family of products, to improve the efficiency of its product development and design process. INSIDE Contactless is using the DesignSync solution to design high-performance contactless chip technologies for next-generation payment, transit, identity and access control applications. INSIDE's secure contactless and NFC solutions are currently found in smart cards, key fobs, mobile phones, handheld devices, point-of-service systems and PC peripherals.

"Designing semiconductor products for smart card and banking applications requires robust, collaborative software, flexibility within concurrent development projects, traceability and intellectual property protection," said Michel Martin, IC Design Manager at INSIDE Contactless. "The deployment of a semiconductor industry-specific collaborative design data and configuration management solution from Dassault Systèmes has enabled us to store, share and manage data effectively and implement and scale best design practices in the company."

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By leveraging Dassault Systèmes ENOVIA Synchronicity DesignSync Data Manager, DesignSync DFII and ProjectSync INSIDE Contactless has been able to improve global team collaboration while also optimizing product design. This approach has enabled INSIDE Contactless to increase system-on-chip design integration efficiencies and IP reuse by utilizing modular data abstraction within a hierarchical design data and configuration management system.

“In an industry with ever-increasing product complexity, INSIDE Contactless is using the power of ENOVIA DesignSync to cut costs and bring contactless technology to its customers faster,” said Fabrice Mekersi, director, Europe, Middle East & Africa, High-Tech and Semiconductor, ENOVIA, Dassault Systèmes. “Dassault Systèmes’ solutions have helped INSIDE Contactless streamline multi-site circuit design, integrating data from often dispersed design teams. This kind of collaborative innovation is increasingly important for sustainable business.”

About INSIDE Contactless

INSIDE Contactless is the global leader in open-standard contactless payment and Near Field Communication (NFC) semiconductors and software that power the next generation of payment, transit, identity and access control applications. The company’s intelligent, microprocessor-based platforms offer the flexibility to be embedded in smart cards, mobile phones and other consumer electronic devices, documents, badges and other items to support a wide range of innovative contactless applications and bring new levels of convenience to users. INSIDE has delivered more than 300 million contactless platforms worldwide to customers and partners that include many of the leading payment card and mobile phone manufacturers, systems integrators and financial institutions. With a portfolio of 60 families of patents, including several essential NFC patents, the company has played a leading role in NFC and contactless innovation. INSIDE is headquartered in Aix-en-Provence, France, with offices in Shanghai, Singapore, Warsaw, Seoul and Silicon Valley. For more information, please visit www.insidecontactless.com.

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MSC Industrial Direct Co, Inc. Selects SAP to Improve Data Management

19 May 2009

MSC Industrial Direct Co, Inc., one of the nation's largest providers of industrial supplies and equipment, has selected the [SAP NetWeaver®](#) Master Data Management component (SAP NetWeaver MDM) to transform how product information is managed throughout its enterprise. More accurate, consistent product information will help and support its growth and cost savings goals. Wholesale distributors globally are using business solutions from SAP AG to automate and optimize business processes, reduce supply chain costs, increase cash-flow and facilitate collaboration with suppliers, customers and partners. The announcement was made at the National Electrical Leadership Summit being held in Fort Lauderdale, Florida, on May 16-20, 2009.

A midsize wholesale distribution company, MSC is a distributor of metalworking, maintenance, repair and operations supplies to industrial customers throughout the United States. With approximately 590,000 industrial products from 3,000 suppliers in its portfolio, MSC reaches over 357,000 customers through direct-mail catalogs, the Internet, direct sales and third-party e-commerce Web sites. MSC will rely on SAP software to provide a central data repository for product information, which will support its plans to increase productivity throughout the organization.

"SAP will help MSC address several key business challenges, including managing more than three

CIMdata PLM Industry Summary

million different stock-keeping units, or SKUs," said Charles Bonomo, vice president and CIO, MSC. "Multi-channel businesses such as ours need to store increasingly more information about each product SKU in order to manage the ever-growing complexities and needs of our diverse customer base."

As more of the company's suppliers provide product information electronically, MSC needs a more flexible way to load the data and better synchronize product information. In addition, it wants a new solution that provides simpler, more scalable user interfaces for data maintenance and searching. Finally, MSC needs to enhance data accuracy to meet the needs of the growing enterprise.

SAP NetWeaver MDM gives businesses like MSC an "out-of-the-box" solution that enables them to monitor, maintain, enhance and share product information across an enterprise. With SAP software, MSC will be able to consolidate its master data-this single, consistent view of all product data will help improve internal and external business processes. This will help enable MSC to focus on efficient new product introductions, cataloging and publishing with an eye toward increased efficiencies, lower costs and improved customer satisfaction.

"We are seeing strong demand from wholesale distributors for better control and visibility into the myriad of business challenges they must manage," said EJ Kenney, vice president Consumer and Distribution Sector, SAP Americas. "SAP for Wholesale Distribution offers companies a solution that provides business-level context and industry specific functionality to give customer insight, efficiency and cost control for today's market."

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NXP Semiconductors Accelerates Design Cycle using New Cadence Encounter Digital Implementation System for Industry's First 45nm Digital TV Processor

18 May 2009

Cadence Design Systems, Inc. announced that NXP Semiconductors utilized the new [Cadence® Encounter® Digital Implementation System](#) (EDI System), and its design-for-manufacturing (DFM) technologies to ensure reliable production of its advanced 45-nanometer PNX85500 digital TV processor chip with a significant acceleration in productivity. The integrated, front-to-back EDI System, with native DFM analysis and optimization, and Encounter Timing System, provided the performance and accuracy necessary for rapid signoff of the next-generation HDTV processor, enabling NXP to achieve volume production of the chip.

The PNX85500, from NXP's Home Business Unit, is the industry's first 45-nanometer digital TV processor, delivering an unprecedented viewing experience. It supports switching from analog to digital, SD to HD and broadcast to networked TV with a global single-chip TV platform. The EDI System enabled this complex single-chip integration at 45 nanometers, consolidating the features and functionality of two 90-nanometer chips to create the area- and performance-efficient design layout, leading to unparalleled picture quality.

"We had to meet an aggressive timeline for the PNX85500, since the whole world is making a digital TV switchover," said Barry Dennington, senior vice president of Design Technology at NXP Semiconductors. "The scalable performance of the multi-CPU backplane and the completeness of EDI System solution feature-set meant we could stay in a single design environment from start to finish. These performance and productivity advantages, coupled with EDI System's native DFM optimization capabilities, and built-in timing and signal integrity signoff, helped achieve a significant improvement in overall turnaround time and time-to-market for our design."

CIMdata PLM Industry Summary

EDI System features a silicon-proven Litho Physical Analyzer and CMP Predictor that can ameliorate 45-nanometer manufacturability issues early in the design flow, enabling fast and predictable design convergence. Combined with the industry-leading litho-driven Cadence NanoRoute® Router, this reduced the need for post-GDSII DFM optimization, further accelerating design time. The Encounter Timing System is a complete and integrated advanced signoff environment, enabling faster optimization, debug, statistical analysis, and final verification of designs for timing, signal integrity, and variability.

“We are excited to have yet another key collaborator success using our new EDI System in production for advanced process nodes,” said Dr. Chi-Ping Hsu, senior vice president of the Implementation Products Group at Cadence. “This new system has been successfully adopted by multiple worldwide customers and providing performance and productivity advantages across the board. EDI System brings customers a single scalable design environment for high performance and quality design closure, with low-power, mixed-signal and advanced node capabilities.”

The Encounter Digital Implementation System is a configurable and extensible high-performance, high-capacity, scalable design solution uniquely delivering flat and hierarchical design closure and signoff analysis, as well as low-power, advanced node and mixed-signal design capabilities. Cadence DFM technologies are seamlessly interwoven with the Encounter Digital Implementation System, enabling early identification, analysis and repair of yield-limiting design challenges. The system delivers superior results and interoperability with package, logic and custom IC design environments.

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PLDA Achieves IP Success with Cadence SuperSpeed USB (USB 3.0) Verification IP

18 May 2009

Cadence Design Systems, Inc. announced that PLDA, a leading provider of semiconductor intellectual property (IP) specializing in high-speed interconnect protocols and technologies, utilized Cadence® Incisive® USB 3.0 (SuperSpeed USB) [verification IP \(VIP\)](#) to achieve IP success for its commercial USB 3.0 design IP. PLDA said the Cadence Incisive VIP helps ensure top-quality results are delivered within time-to-market requirements.

Cadence Incisive USB 3.0 VIP improves verification quality, predictability and productivity as part of the Cadence enterprise verification solution. Part of the company’s broad-ranging VIP portfolio encompassing more than 30 protocols, the SuperSpeed USB VIP provides the ability to measure functional metrics and validate protocol compliance, attaining much higher levels of automation than alternative approaches. [Introduced in November 2008](#), the VIP supports the multi-language Open Verification Methodology (OVM) and works seamlessly with the Incisive Enterprise Simulator, Incisive Enterprise Specman, Incisive Formal Verifier, and Incisive Enterprise Manager.

“The Cadence SuperSpeed USB VIP is helping PLDA to be one of the first IP vendors to reach the market, while ensuring it will be among the highest quality products available,” said Stephane Hauradou, chief technology officer of PLDA. “Using the Cadence VIP is enabling PLDA to achieve significantly greater functional coverage results.”

Jeff Ravencraft, president and chairman, USB-Implementers Forum, said, “The USB-IF is pleased to have Cadence as a SuperSpeed USB verification IP provider to help speed the delivery of high-quality SuperSpeed USB 3.0 devices to the marketplace.”

The Cadence commitment to USB engineering teams is underscored by its sponsorship of and

participation in the [SuperSpeed USB Developers Conference](#) in Tokyo, Japan, May 20 and 21.

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Shipbuilding projects with MyWorkPLANs

May 18 2009

Project based manufacture doesn't get much bigger than shipbuilding. Sea Master Consulting & Engineering SL installed SESCOI's MyWorkPLAN job management software to help it control the cost and delivery lead times of its naval engineering and design contracts. Located in El Puerto de Santa Maria in Southern Spain, the company was formed in 2007 by a group of engineering professionals with extensive experience in the shipbuilding sector, to provide pre-contract designs, technical proposals, evaluations, risk analyses and assistance with stability, dock and sea trials as well as providing expertise in solar power generation plant designs.

Luis Labella, Director at Sea Master says, "We have a large number of varied projects running simultaneously so, before we installed MyWorkPLAN, it was difficult to keep track of progress and identify the resources required by each of them. Our aim is to establish ourselves as a market leader in the shipbuilding and solar power generation sectors, so we needed the right management systems to improve efficiency."

Sea Master evaluated MyWorkPLAN, on-line and through a series of web based demonstrations, so face-to-face meetings were not necessary. Engineers from the company then installed and implemented the software themselves, purchasing it following a successful subscription period. Luis explains, "It was a supremely easy implementation. The software is very intuitive with standard reports which cover nearly all our needs. The learning curve for users is virtually zero." Naturally, SESCOI has project managers dedicated to managing MyWorkPLAN implementation. However, the ease with which Sea Master's engineers installed the software themselves shows how simple it can be to integrate and implement.

Sea Master prides itself in the high levels of expertise which it can offer to its customers, so the manual methods it was using to control its projects were a serious drain on valuable human resources.

Luis says, "Keeping track of cost, planning and workload was both a chore and unreliable. These tasks have now been automated producing accurate figures and saving hours of work. We are also achieving major improvements in the reporting of our key performance indicators, resulting in significant cost savings and more efficient project management."

MyWorkPLAN integrates with many existing office based software systems, such as Microsoft Excel®, as well as with popular accounting packages, enabling it to utilize existing knowledge and data which has been built up by users, and then share it around the organization. Its ability to automatically collect real-time information greatly reduces administrative effort and increases the accuracy of the data collected. CAD models imported into the system can be analyzed and viewed in a tree structure arrangement so that, when combined with historic information, engineers can prepare highly accurate quotations. Furthermore, the planning module enables a company to monitor the workload on each of its resources, helping it to predict realistic delivery times. Luis adds, "In addition to providing technical excellence, we need to meet deadlines and provide our customers with exceptional service in order to achieve our aim of becoming a market leader. With MyWorkPLAN we have a precise assessment of our workload, enabling us to provide very accurate tenders. It has produced a huge improvement in our customer service levels."

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Solid Edge Benefits Emerging Leader in Construction Machinery

May 19 2009

Everdigm produces a wide range of construction machinery as well as equipment for fighting fires and responding to other natural disasters. The company began in 1994 trading second-hand construction machinery. Through constant R&D into the production of attachments, concrete pump trucks and tower trucks, Everdigm made the leap into producing its own machinery. Today Everdigm sells its products locally as well as outside South Korea. Its equipment is exported to more than 60 countries around the world including the Americas and Europe.

As Everdigm's business areas were expanding and product variety increasing, management realized the limitations of the company's 2D design software. It was difficult to create complex shapes with the 2D program, and difficult to reduce defects caused by design errors. In addition, it was getting harder to meet customers' demands for quicker delivery with the 2D approach. As a result, the company decided to implement a 3D design system.

Wide range of functionality

In choosing the new system, Everdigm was hoping to reduce design time, automate repetitive processes and maintain high-level security of design data. After thorough benchmarking of various 3D CAD systems, Everdigm chose the Solid Edge solution from Siemens PLM Software. Other factors in Solid Edge's favor were the ease of maintenance, good support, the software's ability to handle large assemblies and its short learning curve.

Solid Edge provides Everdigm with a robust drafting tool and supports the use of existing 2D data. Solid Edge facilitates the generation of bills of material, exploded views and animations. It also includes a simple macro function for increasing efficiency. Furthermore, Solid Edge will allow the company to expand in the future to product lifecycle management (PLM), another major reason behind Everdigm's choice.

Along with its deployment of Solid Edge, Everdigm also implemented the Femap finite element analysis pre and postprocessor from Siemens. Everdigm tested the two programs at its ATT R&D center, and then rolled them out to the product development team of each department. The company also provided internal and external training according to the needs of each business area, covering areas such as the use of existing 2D drawings, and 3D modeling and assembly processes. The upgrade to 3D took six months.

Reaping the benefits

Using Solid Edge, Everdigm has increased efficiency by automating repetitive design tasks. For example, Solid Edge permits sequences of material numbers to be transmitted to the ERP system. It allows drawings to become templates, standardizes file properties and user-entered data, automatically creates the BOM, and permits fast searches of product and BOM data.

With 3D design, Everdigm has been able to decrease the number of defects. The company has also been able to manage product-related data (including design, manufacturing, sales and marketing information)

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using an integrated database to achieve its main business challenge of working more efficiently.

Since deploying Solid Edge and Femap to create a highly automated 3D design process, Everdigm has achieved outstanding benefits. These include a greater than 15 percent reduction in design time for a first prototype and a 30 to 50 percent reduction for design changes and for the production of a model for mass production. In addition, Solid Edge has helped the company determine areas that will be difficult for manufacturing. Having a 3D model and design database connection, the company has achieved 100 percent data consistency between BOM data and drawings, enhancing product and inventory management.

In addition to shrinking the design cycle, Everdigm has been able to enhance design quality and prevent downtime. Solid Edge 3D data is used to create images for use in external marketing, achieving the effect of "killing two birds with one stone." In the future, Everdigm plans to systemize its overall processes and implement PLM to further increase its efficiency and productivity and significantly reduce time to market for its products.

As the level of product complexity increased the amount of CAD data being produced, Everdigm realized that it also needed a more effective data management system. For this the company started using the Teamcenter Express solution, also from Siemens. Teamcenter Express allows Everdigm to integrate and manage all of the data created across its product lifecycle. It also enables more effective collaboration further reducing design times. Everdigm expects Teamcenter Express to increase work efficiency by 15 percent.

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Synopsys PrimeTime PX Power Analysis Solution Achieves Broad Market Adoption

14 May 2009

[Synopsys, Inc.](#) announced that Synopsys' PrimeTime® PX solution, a key component of the Galaxy™ Implementation Platform and part of Synopsys' Eclipse™ Low Power Solution, has been successfully deployed at more than 175 semiconductor companies worldwide to perform highly accurate dynamic and leakage power analysis. Seamless integration within PrimeTime, the golden industry standard for timing and signal integrity signoff, has resulted in the selection of PrimeTime PX as the preferred power analysis solution at companies from all facets of the semiconductor industry. These companies include Analog Devices, Aquantia, Atmel®, Fujitsu Microelectronics Limited, Integrated Device Technology, Realtek, Renesas Technology and STMicroelectronics.

"STMicroelectronics and Synopsys have collaborated on power modeling and analysis for over 15 years," said Indavong Vongsavady, CAD director, Technology R&D, STMicroelectronics. "Accurate understanding of power, especially static power, is fundamentally important given the rapidly increasing share of designs at 45/40 nanometers. PrimeTime PX represents a trusted solution, and is an integral part of our design flow from estimations early in the design process to sign-off, contributing to our record of first-time silicon successes. "

"Low power design is a crucial element for the Ten Gigabit Ethernet solution that we design," said Ramin Shirani, vice president of Engineering at Aquantia. "Being PrimeTime users, our engineers found the PrimeTime PX solution to be a natural fit within our existing design flow. We consistently use PrimeTime PX throughout our design flow to ensure that our ICs meet our stringent power targets."

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"Our products have enabled key advances in power efficiency in various applications spanning communication network, computer peripheral and multimedia markets," said Chao-Cheng Lee, vice president at Realtek. "Synopsys' PrimeTime PX solution provides great visibility into IC power consumption throughout the design implementation process. Our design engineers trust the tool for power signoff because of its high accuracy."

Battery life, energy efficiency and product reliability are key concerns in complex system-on-chip (SoC) designs, and power analysis has become an integral part of today's design flows. PrimeTime PX expands the PrimeTime timing and signal integrity analysis solution to deliver highly accurate dynamic and leakage power analysis for designs at 90 nanometers (nm) and below. The integration of timing, signal integrity, and power eliminates redundant set-up and calculation steps required when using separate standalone tools. PrimeTime PX features a rich user interface familiar to PrimeTime users, as well as intuitive commands and reports designed to improve productivity. PrimeTime PX is able to complete power analysis on multi-million-gate designs within hours. The latest release has several new advanced features, including cycle-accurate peak power analysis (CAPP) to help designers determine the cycle during which maximum power consumption occurs in a design.

"Due to its ease of adoption and robust feature set, PrimeTime PX is quickly becoming the golden industry standard for gate-level power analysis and signoff at both the block and full-chip levels," said Bijan Kiani, vice president of Product Marketing at Synopsys. "Anchored by widely trusted tools including PrimeTime PX, the Synopsys Galaxy Implementation Platform enables broad adoption of advanced low power design techniques."

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Technia Delivers PLM Solution to Peab

14 May 2009

Technia has signed an agreement with Peab Sverige AB concerning a delivery of a PLM solution based on the ENOVIA PLM solutions from Dassault Systèmes. With this PLM solution Peab will be able to control information in ongoing projects which in turn will improve Peab's operational efficiency. This order strengthens Technia's position as PLM supplier in the construction industry.

Peab is a pure construction/facility and civil engineering company. The Peab group has all the resources required to be able to manage an entire construction process - from a construction plan to a complete building. The companies within the Peab group secure the supply of raw materials and services for Peab's construction and civil engineering business. And Peab's network of subcontractors and sub suppliers validates their position as a stable and independent company in the Nordic construction market.

With the PLM solution Peab and its partners will establish a platform for planning of the Swedish Arenastaden project. Peab is with that one of the first construction companies in the industry to use a global PLM solution for such projects.

The PLM solution is comprised of software, support and consulting services. With help of Technia's PLM expertise the solution will be implemented in a fast and efficient way. To get access to the right information in ongoing projects is essential for Peab. With the PLM solution Peab will be able to control the progress in the Arenastaden project in an optimal way.

"We think that we have found an efficient way of working and to gather the basic planning for decision-

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making from all our partners”, says Ola Daleke responsible project manager, “ we will be able to manage and control our technical information and documentation in a clearer way – much better than what had been possible without Technia’s PLM solution” Ola Daleke at Peab Sverige AB concludes.

”We are very proud that Peab chose Technia and our PLM solution after a careful evaluation, says Florian von Tiedemann, Director at Technia. ”This project is significant – it is our second PLM project in the Peab group. For some while Technia has been marketing the ENOVIA PLM solutions for the construction industry and it seems to be the right strategy”, Florian von Tiedemann, Director at Technia concludes.

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Xi'an Aircraft Industry (Group) Company Limited Selects MSC.Software's SimXpert for Up-Front Simulation, Knowledge Capture and Re-Use

May 19 2009

MSC.Software announced that Xi'an Aircraft Industry (Group) Company Limited (XAC) in China has selected SimXpert to drive innovation and accelerate new product development.

The Chinese aerospace sector ranks among the world's most dynamic sector due to the massive investments injected by the country. To meet the challenges of a competitive global industry, XAC is deploying an initiative to improve engineering throughput and productivity through a fully integrated multidiscipline simulation environment. Integrated with MSC's advanced multidiscipline (MD) solvers, SimXpert provides users native CAD access with bi-directional interoperability, pre-processing, solving, post processing, report generation, and automation capabilities within a single easy-to-use solution.

"With SimXpert, we are now in a position to efficiently and reliably solve the complex, multidiscipline problems associated with aircraft design. The associated process efficiency and reduction in tedious and repetitive work will empower us to deliver superior products to our customers faster than ever before," said Xijun Dang, CAE Director of XAC. "MSC.Software's solutions are applied in most areas of our work, constantly pushing our strategic views on design and engineering philosophies."

About Xi'an Aircraft Industry (Group) Company Limited

Xi'an Aircraft Industry (Group) Company Limited (XAC) is one of the largest institutions in China's aviation arena. With integrated scientific research and production expertise, XAC is a base for developing and manufacturing large and medium-sized airplanes in China. Considered as one of China's first-grade enterprise, XAC has more than 20,000 employees with physical assets covering 3 million square meters. More information on XAC can be found at www.xac.com.cn

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Product News

Agilent Technologies' EMPro 2009 Improves Integration with Advanced Design System

May 18 2009

Agilent Technologies Inc. (introduced EMPro 2009, the full 3-D electromagnetic (EM) design and simulation software that represents the next step in integration with Advanced Design System (ADS), the RF and microwave design and simulation platform.

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EMPro 2009 contains both finite-element-method and finite-difference-time-domain EM simulation techniques. Integrated with ADS, it allows design simulation and cross-verification of all types of EM analysis problems without the extra costs, stops and starts that are associated with leaving the design flow to perform analysis with separate, point tools. This integration speeds the overall design and verification process and gets communications products to the marketplace more quickly.

The 3-D EM design environment and solvers in EMPro 2009 are integrated with ADS for fast and efficient RF and microwave circuit design. The software is used to analyze the EM effects of RF and microwave components such as high-speed IC packages, antennas, on-chip embedded passives and PCB interconnects.

“This is the industry’s first platform that completely integrates 3-D EM simulation and the ADS design environment,” said Erwin DeBaetselier, product marketing manager with Agilent’s EEs of EDA division. “Its architecture removes the overhead and expense of maintaining disconnected tools. Our customers can take advantage of a single flow to innovate today’s challenging wireless applications, such as those that mix high-density integration of RFIC, packages and RF modules with antenna design.”

EMPro 2009 creates parameterized 3-D components for use in ADS circuit and system simulation. This allows designers to use the best available technology in an integrated RF design flow. EMPro 2009 can also calculate 4G antenna diversity for MIMO (multiple input, multiple output) systems and integrate them within a 4G LTE or WiMAX™ system verification using the ADS Ptolemy system simulator.

The EMPro design environment also saves design time in modeling imported CAD data. Simulation parameters, parameterization and simplification of the imported components can be set up once in the design cycle and all the following CAD updates can use this same modeling setup. EMPro contains the most popular industry compliance tests, such as multiple-input multiple-output (MIMO)-diversity, specific absorption rate (SAR) and hearing aid compatibility (HAC). These tests help eliminate expensive delays and hardware rework during production testing.

Agilent EMPro 2009 takes advantage of multithreading and GPU acceleration for fast EM simulation results that can be immediately used in the overall ADS design and simulation.

Agilent EMPro is available now, with prices starting at approximately \$13,000.

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Ameri-CAD Releases VisionREZ Version

May 18 2009

Ameri-CAD, Inc. - An ITW Company, has announced their new features for the release of VisionREZ Version 7. Powered by Autodesk Technology, VisionREZ creates a Building Information Model (BIM) for efficient development of 3D Models, 2D Construction Documents, Framing, Graphic Renderings and Bill of Materials (BOM) deliverables. VisionREZ Version 7 provides even more power and value to the residential industry with over thirty-five new features and enhancements.

BRIDGING THE GAP WITH DIGITAL FABRICATION

Bridging the Gap between the architectural and manufacturing industries is a groundbreaking industry solution for this new release. "Increasing economic pressures place greater value on the benefits of manufactured solutions in the residential and light commercial construction industries. Capitalizing on the power of the AutoCAD platform, ITW is bringing Digital Fabrication for the light frame wood

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market to the Autodesk design environment. Users can now export a VisionREZ architectural model to ITW BCG manufacturing solutions (Intellibuild, View, hsbCAD) for Structural modeling of wall panels and trusses. The manufacturing-ready structural data can then be imported back into the original VisionREZ architectural DWG file. This is significant because it generates greater economies by eliminating the need for redraw by the manufacturing community and reduces errors by coordinating all build data into a master file," said Jay Moore, Business Development Manager for Ameri-CAD, Inc. - An ITW Company.

KEY NEW FEATURE LISTING

Compatibility with Autodesk AutoCAD Architecture 2010/2009 and AutoCAD MEP 2010/2009 platforms

Phase I - Options Creation and Management allows the user to define specific Option Sets to which users can assign objects. These options can then be toggled to what is desired. The user can place rule constraints on what other choices could be available with another option

Architectural Link to ITW BCG Manufacturing solutions

Roof Subtractive Modifier allows the user to remove an area from the roof for easier roof manipulation and design without modifying the vertices

Roof Clip and Trim allows the user to clip and trim two roofs that interfere with one another at their intersection to combine two separate roofs and let the system determine the proper intersection lines

Roof Creation from Walls enables faster roof design and development by allowing the user to simply select walls to generate a VisionREZ Roof

Ribbon Interface is smarter and more contemporary to increase rapid access to tools

64-Bit OS Compatibility in addition to 32-bit compatibility

Enhanced functionality to over twenty existing solutions

FULL RELEASE DETAILS

Click on the following link to download a PDF copy of all new release features and enhancements:

http://www.visionrez.com/PDF/VisionREZ_V7_Release_Details.pdf

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AVEVA Strengthens the Integrated Engineering and Design Approach of AVEVA Plant With Two New Products

13 May 2009

Launched at [ACHEMA 2009](#) will be a range of new and upgraded AVEVA product solutions aimed at tighter technology integration and increased productivity throughout the entire project lifecycle.

AVEVA's Integrated Engineering and Design approach integrates all plant engineering and AVEVA PDMS 3D design data within a single AVEVA model database. No additional foundation software is needed. The data is fully controlled, and can be used across all phases of engineering and design supporting fast, error-free design of a plant.

This Integrated Engineering and Design approach is now further strengthened with the launch of two

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new products in the AVEVA Plant portfolio; AVEVA Diagrams for P&ID, HVAC and Cable diagrams; and AVEVA Instrumentation for plant instrumentation solutions.

New Product - AVEVA Diagrams

Already proven as AVEVA Marine Diagrams, this product is now also available for the plant industry, alongside AVEVA's AutoCAD-based P&ID solution AVEVA VPE P&ID. AVEVA Diagrams handles P&ID, HVAC and Cabling diagrams and offers considerable freedom of use, including the ability to sketch out preliminary designs at the earliest stages of design and then introduce specification controls later on. Importantly, the product saves both the diagram and the engineering objects directly in the schematic part of the AVEVA model database, which is also used by the AVEVA PDMS product.

New Product - AVEVA Instrumentation

A brand-new addition to the AVEVA Plant portfolio, AVEVA Instrumentation is a feature-rich suite of integrated applications for the efficient specification, design and maintenance of all plant instrumentation and control systems. AVEVA Instrumentation is suited to the needs both of plant Engineering, Procurement and Construction (EPC) contractors and of Owner Operators (OOs), providing a complete lifecycle solution. It can be used as an effective stand-alone product, or integrated with other AVEVA applications.

Richard Longdon, AVEVA CEO comments:

"Instrumentation is an important addition to our product range and with this new technology we will be able to leapfrog existing competitor products to offer customers the very latest technology which is also integrated with the powerful AVEVA database.

"AVEVA offers continually increasing capabilities in Integrated Engineering and Design. This delivers efficiencies through the use of a single information asset which is created and used collaboratively by all project participants. Duplication and sources of error are reduced and all project disciplines can work together with clear visibility of the entire design as it evolves."

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Bentley Extends Design and Cost-Estimating Efficiencies of Bentley Expert Designer V8i to Support Water, Gas, and Communications Projects

21 May 2009

Bentley Systems, Incorporated has extended the functionality of Bentley Expert Designer V8i beyond electric utility networks to include water, gas, and communications infrastructure. As a result, utility owner-operators and engineering contractors can now use the capabilities of Bentley Expert Designer V8i to enhance the efficiency and increase the throughput of other utility network design projects. The software merges network design and work management in a single environment, integrating network modeling, design engineering, and detailed design cost data for a wide range of utility infrastructure to deliver high-quality projects on time and on budget. In addition, because the software's architecture is GIS and work-management system (WMS) independent, designers and estimators can easily integrate Bentley Expert Designer V8i into existing GIS and graphics environments, including MicroStation V8i, Bentley Electric V8i, Bentley Gas V8i, Bentley Water V8i, GE Energy's Smallworld, and ESRI's ArcGIS.

"With Bentley Expert Designer V8i, the return on investment for the owner-operator comes not only

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from increased project quality, reduced project times, better workflow management, and improved standardization on company-approved equipment and contractors,” said Richard Zambuni, global marketing director for geospatial solutions at Bentley, “but also from the software’s ability to provide highly detailed cost comparisons for each stage of the network build. Moreover, users are able to manage Bentley Expert Designer documentation within the ProjectWise collaboration and engineering content management environment.”

Bentley Expert Designer V8i includes functionality for design layout, work-order management, estimating, optimization, structural analysis, job closeout, process measurement, and a detailed audit trail. With the extension of this functionality in the newly released Bentley Expert Designer V8i products, designers and engineers working on water, gas, and communications projects will now benefit from increased design accuracy and the ability to quickly estimate and compare the cost of their designs, which accelerates the project approval process. In addition, because the users of Bentley Expert Designer V8i are working within a single design and work management environment, they will enjoy a shorter learning curve and increased productivity.

For additional information about Bentley Expert Designer Electric V8i, visit <http://www.bentley.com/bentleyexpertdesignerelectric>.

For additional information about Bentley Expert Designer Communications V8i, visit <http://www.bentley.com/bentleyexpertdesignercommunications>.

For additional information about Bentley Expert Designer Gas V8i, visit <http://www.bentley.com/bentleyexpertdesignergas>.

For additional information about Bentley Expert Designer Water V8i, visit <http://www.bentley.com/bentleyexpertdesignerwater>.

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Cadence and Virtutech Extend Metric-Driven Verification to Virtual Systems Development

20 May 2009

Cadence Design Systems Inc. and Virtutech®, Inc., a leader in [virtualized systems development](#) (VSD), announced a collaboration to integrate Cadence® Incisive® Software Extensions with the Virtutech Simics® high-speed system-level virtual platform. The combined offering will allow engineers to develop electronic designs on a virtual platform well in advance of hardware availability, resulting in improved system-level schedule predictability from prototyping through functional verification closure.

The integration will also enable application of the Open Verification Methodology Multi-Language (OVM-ML) to hardware/software co-verification earlier in the project development cycle. Virtutech’s Simics is a flexible and scalable software solution that models electronic systems with high performance and fidelity, enabling early development, faster testing and better management of development projects. Cadence Incisive Software Extensions connect verification testbench, planning and management to drive each software function in the virtual platform, including the embedded and application software, resulting in high-quality, corner-case functional verification for the exported virtual platform.

“We develop virtual platforms as a way to help enable early software development by our customers, and to help reduce the time required to deliver higher quality systems,” said Brian Branson, Director of Design Technology at Freescale. “We are pleased to see this cooperation between Cadence and Virtutech since we collaborate with each other in the EDA and ESL domains.”

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Using the combined technology, customers will be able to stress their hardware/software interface, enabling them to discover functional bugs much earlier. It stimulates the hardware design with firmware scenarios before RTL becomes available, detecting very early hardware-dependent software use case bugs.

“The integration with Cadence technology enables Virtutech’s Simics solution to build a bridge from the traditional EDA flow to the more software-centric view of virtualized systems development (VSD) and bring all the benefits of virtualization and fast simulation,” said Michel Genard, vice president of marketing at Virtutech. “VSD enables software developers to run multi-core multi-board virtual platforms at very high speed and discover more complex hardware/software bugs at the architectural level early in the design process. At the same time, organizations are applying Simics far beyond their initial use cases as an agent of organizational change.”

“Cadence is collaborating with Virtutech to provide mutual customers with high-speed virtual platforms verified with hardware/software metric-driven techniques,” said Ran Avinun, group marketing director at Cadence. “The combination of Virtutech Simics and Incisive Software Extensions will improve the productivity of system engineers through application of planning, management, stimulus, checking and monitoring of unique hardware/software use cases.”

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Cadence Introduces Innovative FPGA-PCB Co-Design Solution

18 May 2009

Cadence Design Systems, Inc. introduced an innovative, scalable co-design solution for designing FPGAs onto PCB systems. The [Cadence® OrCAD® and Allegro® FPGA System Planner](#) shortens time to design-in today’s complex FPGAs—those with large pin counts and elaborate banking and pin assignment rules—while reducing risk by delivering an automated placement-aware FPGA pin I/O assignment synthesis.

Developed by Taray, Inc. and available to Cadence customers through an OEM agreement, this exclusive joint solution offers an optimized correct-by-construction FPGA pin assignment that reduces the number of pin optimization iterations during PCB layout while reducing the number of layers required to route the FPGA on a PCB design. Allegro FPGA System Planner also shortens time for companies using FPGAs on PCB systems to emulate their ASICs through automated FPGA pin assignment.

“I tried other tools that promised to simplify the FPGA I/O complexity issue but none of these had an approach like Taray does,” said Roberto Cordero, GCSD Signal Integrity TMT Lead, of Harris Corporation. “Taray’s FPGA I/O synthesis technology is the only one that allows us to enter our design intent at the system level, and then it completely automates the pin assignment over multiple FPGAs all at once. The Taray technology will be a very strong addition to Cadence’s portfolio.”

The need among systems companies for increased data throughput along with increased functionality in their products has resulted in large pin-count FPGAs with high-speed I/Os. These FPGAs also have more advanced memory interfaces that consume much less power and address customers’ desire to develop greener products. Use of such FPGAs with greater capacity, more capabilities and advanced high-speed interfaces has increased in PCBs, as well as for emulating ASICs using FPGAs on a PCB. The Cadence OrCAD and Allegro FPGA System Planner targets systems companies and IC companies who face challenges in using FPGAs on PCB Systems.

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"Off-the-shelf multi-FPGA prototyping boards do not always meet the needs of designers," said Ed McGettigan, senior director of silicon hardware and applications at Xilinx, Inc. "Using this FPGA I/O synthesis technology, designers can create a new prototyping system while rapidly exploring multiple interconnect and component design alternatives much more quickly than by using typical manual methods for pin optimization."

The technology is available in a series of scalable solutions from the OrCAD FPGA System Planner to the Allegro FPGA System Planner L, XL and GXL tiers, and is tightly integrated with OrCAD Capture, OrCAD PCB Designer, Allegro Design Entry HDL and Allegro PCB Design products. The FPGA System Planner shortens the time it takes to integrate FPGAs on a PCB, enhances FPGA performance through the optimal utilization of FPGA resources, and can reduce PCB manufacturing costs through the reduction in the number of PCB layers required to route dense, complex, large pin-count FPGAs.

"The Cadence FPGA System Planner is an innovative solution for design teams facing the challenges of integrating today's large pin-count, complex FPGAs into the PCB design flow," said Charlie Giorgetti, corporate vice president at Cadence. "This is exactly the type of technology, automation and innovation our customers expect from us to reduce design cycles and manage risks with large pin-count FPGAs on PCBs."

OrCAD and Allegro FPGA System Planner products work with the 16.2 release and are available for customers to adopt immediately. For more information, visit www.cadence.com/cadence/newsroom/features/pages/feature.aspx?xml=fpga

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Cadence Speeds Systems Development with Automated Transaction-Level Verification

18 May 2009

Cadence Design Systems, Inc. announced that it has delivered an extended system-level verification solution that supports the Open SystemC Initiative (OSCI) TLM 2.0 standard. This new solution natively recognizes TLM 2.0 constructs to automate debugging and analysis, and enables Save/Restart/Reset for managing long runtime test cases. With the new capabilities, systems and SoC engineers can conduct more complete transaction-level functional verification within narrowing project windows, resulting in higher-quality designs, including the development of higher-quality embedded software earlier in the project.

Cadence® is a corporate member of OSCI and a longtime contributor to its organizational and technical leadership. OSCI TLM 2.0 is an important advancement providing a standard to improve interoperability of transaction-level models and the transaction performance of those models for architecture analysis, software development, performance analysis, and hardware verification.

Cadence SystemC simulation support is part of a fully integrated multi-language, multi-level functional verification solution which now includes TLM extensions. The arrival of TLM 2.0 codifies the intent of SystemC such that the [Incisive® Enterprise Simulator](#) infers the transactional interaction information and presents TLM-aware control, visibility, and debug capabilities – providing layers of abstraction above the C++ baseline. This removes the need to manually instrument source code, and organizes transaction information, multiple processes, and synchronization actions such as events. This enables the users to intuitively debug all the interacting elements of their SystemC TLM 2.0 design, using control and debug operations at the abstraction level of transactions, as well as software breakpoints, stack variables, and method and thread data operations for data structures such as fifos and sockets.

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“OSCI TLM 2.0 is of great significance for the industry where the customer’s benefits are multiplied by the support of each additional commercial product,” said Stan Krolikoski, group director of Standards and Interoperability at Cadence, and the company’s representative on the OSCI board.

Long runtimes are a common challenge for system-level verification. New Save/Restart and Reset capabilities have patent-pending extensions for SystemC/C++, enabling teams to start regressions from a deep state starting point, such as after booting the Linux OS. Saving the entire state of a SystemC/C++ program includes proper handling of pointers, memory addresses, and simulation variables - far beyond the state of a mixed-language simulation.

"Cadence SystemC simulation environment provides the high-performance, multi-language capabilities we need to verify our energy-efficient high-performance computing systems," said Bryce Denney, director of ASIC Verification at SiCortex, Inc.

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CERTUSOFT Licenses Three D-CUBED Components From Siemens PLM Software

May 18 2009

[Siemens PLM Software](#), a business unit of the Siemens Industry Automation Division, and Certusoft, Inc., a pioneer in the field of sales and engineering automation, today announced that three of Siemens PLM Software’s [D-Cubed](#)[™] components will be integrated and released in the Certusoft Configurator application.

Certusoft Configurator provides the heavy duty vehicle supply chain with advanced collaborative tools for visualization, configuration, physics-based optimization and order management. These tools increase productivity in engineered-to-order transactions of specialty vehicles, such as rescue, refuse and construction vehicles, from manufacturing to the point-of-sale.

Certusoft has licensed the D-Cubed 3D Dimensional Constraint Manager ([3D DCM](#)) to support the automated 3D assembly of integrated chassis and body configurations and to enable users to configure their models interactively. The result will be an even more productive configuration environment that will benefit users, from manufacturing engineers to point-of-sale professionals. D-Cubed 3D DCM is the industry’s preferred component for implementing assembly modeling functionality in a wide range of design applications.

The D-Cubed Collision Detection Manager ([CDM](#)) will be integrated by Certusoft into its Configurator application to ensure that the configured products have no interfering parts, eliminating re-work associated with these types of issues. Already well-established in many mechanical CAD applications, D-Cubed CDM is optimized for fast and accurate collision and clearance calculations between assembly components.

The D-Cubed Hidden Line Manager ([HLM](#)) will be used in the Certusoft Configurator to improve the automated production of drawings that provide users with highly accurate visual representations of the configured products. D-Cubed HLM is a proven component for engineering drawing and technical illustration, with production usage exceeding two million seats.

“Product innovation and excellence are key targets in our business development strategy, making the D-Cubed components the obvious solution for meeting our critical 3D modeling objectives,” said Sermet Yucel, president of Certusoft. “Our customers demand strong commitments to quality and functionality. Licensing solutions from Siemens PLM Software will enable us to fulfill those commitments more

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rapidly and with full peace of mind.”

“Companies are looking for every means possible to remain successful in these difficult economic times,” said Joan Hirsch, vice president of Product Design Solutions, Siemens PLM Software. “As organizations like Certusoft continue to license our solutions, it serves to validate the role that D-Cubed components serve in helping companies innovate cost-effectively and with minimum risk. We welcome Certusoft to the wide community of adopters we continue to serve as they strengthen their product portfolios with proven technology from Siemens PLM Software.”

About Certusoft

Certusoft is a leader in the field of configuration software, delivering Sales and Engineering Systems to manufacturing companies selling highly customized and engineered products. Certusoft Parametric Configurator simultaneously builds and optimizes products from customer requirements and engineering constraints, thus eliminating the costs and delays associated with custom engineering.

Certusoft Parametric Configurator seamlessly integrates with critical CAD components to create optimized 3D layouts and assemblies. The result is a low-cost, highly customized product. Please visit www.certusoft.com for more information.

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Dassault Systèmes Announces New Release of Abaqus FEA from SIMULIA

May 19 2009

Dassault Systèmes (DS) announced the availability of Abaqus 6.9, its technology-leading unified finite element analysis (FEA) product suite from SIMULIA.

Abaqus is used by designers, engineers, and researchers in a broad range of industries, including electronics, consumer packaged goods, aerospace, automotive, energy, and life sciences to evaluate real-world behavior of materials, products, and manufacturing processes. This release delivers key new capabilities for fracture and failure, high-performance computing, and noise and vibration. In addition, SIMULIA is continuing to enrich the product suite with capabilities for modeling, meshing, contact, materials, and multiphysics.

“In order to meet today’s fast-paced development requirements, up-front simulation techniques play a major role,” states Frank Popielas, Manager Advanced Engineering, Sealing Products Group, Dana Holding Corporation. “The synergy between Abaqus 6.9 and high-performance computing clusters will help us minimize the unit cost and retain optimal turn-around time.”

“By working closely with our customers on the definition and review of new functionality, we have developed the most robust finite element analysis software available,” stated Steve Crowley, director of product management, SIMULIA, Dassault Systèmes. “Abaqus 6.9 provides manufacturing companies with the ability to consolidate their nonlinear and linear analysis processes within a unified FEA environment.”

Release Highlights:

The Extended Finite Element Method (XFEM) has been implemented in Abaqus and provides a powerful tool for simulating crack growth along arbitrary paths that do not correspond to element boundaries. In the aerospace industry, XFEM can be used in combination with other Abaqus capabilities to predict the durability and damage tolerance of composite aircraft structures. In the energy industry, it

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can assist in evaluating the onset and growth of cracks in pressure vessels.

The general contact implementation offers a simplified and highly automated method for defining contact interactions in a model. This capability provides substantial efficiency improvements in modeling complex assemblies such as gear systems, hydraulic cylinders, or other products that have parts that come into contact.

A new cosimulation method allows users to combine the Abaqus implicit and explicit solvers into a single simulation—substantially reducing computation time. For example, automotive engineers can now combine a substructure representation of a vehicle body with a model of the tires and suspension systems to evaluate the durability of a vehicle running over a pothole.

Abaqus/CAE provides faster, more robust meshing and powerful results visualization techniques.

Enhanced performance of the AMS eigensolver significantly improves the efficiency of large-scale linear dynamics workflows used for applications such as automotive noise and vibration analyses.

A new viscous shear model allows the simulation of non-Newtonian fluids such as blood, paste, molten polymers, and other fluids often used in consumer product and industrial applications.

For a more complete list of new features and enhancements, visit:

www.simulia.com/products/abaqus_fea.

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Exalead and The vdR Group Debut Search-Based Application for Manufacturing and Engineering Organizations; Partrieve™ Unifies Access to Part and Product Data Located in Various Files and Across Hundreds of Databases

19 May 2009

Exalead, a global provider of **search-based business application** (SBA) technology, and The vdR Group, a leading developer of integration solutions for manufacturing and engineering applications, introduced Partrieve, an SBA built on the Exalead CloudView platform. Manufacturing and engineering companies can immediately take advantage of **Partrieve** to find part and product data located across hundreds of databases. Rapid access enables these companies to improve user productivity, optimize design and information reuse, accelerate time-to-market and reduce cost of ownership.

Partrieve v5.0 helps users find and access part and product data that reside in multiple and disparate repositories, applications, and various content formats within an enterprise. It extends the powerful web paradigm of fast and easy access to information and builds on it by further adding powerful interactive discovery and analysis tools.

"We needed a search platform that would give our customers the confidence that Partrieve could handle large volumes of part data and related content, operate in a global environment and scale easily as needed," said Martin van der Roest, president and CEO of vdR. "With the **Exalead CloudView OEM Edition**, we got just that. As a result, we were able to focus on our integration technologies, user experience and the overall Partrieve solution."

Partrieve unifies and aggregates part data independent of its source, format, language or units of measure. Data can exist in computer-aided design (CAD), electronic content management (ECM), enterprise resource planning (ERP) and product lifecycle management (PLM) solutions and more. Formats can include documents, spreadsheets, media files, and CAD drawings.

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ISVs and integrators can use CloudView OEM Edition to differentiate their solutions with high-performing and highly-scalable **embedded search** capabilities. Built on an open, modular architecture, CloudView uses minimal hardware but provides high scalability, which helps reduce overall TCO. Additionally, CloudView uses advanced semantic technologies to automatically analyze, categorize, enhance and align data to deliver more accurate, precise and relevant search results.

"CloudView OEM offers the fastest way for ISVs, integrators and solutions providers to build search-based business applications that meet the unique needs of their customers," said Ranjeet Vidwans, VP of Business Development for Exalead. "Partrieve is a perfect example of how our partners can use search to innovate and differentiate themselves."

Partrieve is immediately available and is sold via Tata Technologies. For more information, please visit www.Partrieve.com. Exalead Cloudview OEM Edition is available directly from Exalead. To learn more, please visit <http://www.exalead.com/software/products/cloudview/cloudview-oem-edition/>.

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Informative Graphics Releases Brava! Enterprise 6.1 Viewer for EMC Documentum

May 18 2009

Informative Graphics Corporation (IGC), announced its newest version of Brava!® Enterprise web-based viewer for EMC Documentum Webtop. The new version will be debuted at EMC World 2009 in Orlando, Florida at the Orange County Convention Center, May 18-21, 2009. IGC will demonstrate the enhanced capabilities of Brava 6.1 for Webtop, as well as Redact-It® Enterprise Server software for EMC® Documentum® at booth #218 at the conference.

Used by companies worldwide, Brava Enterprise offers web-based, enterprise-class viewing and collaboration for virtually any format, including Microsoft Word, TIFF, PDF and CAD formats like AutoCAD. Brava has been integrated into Documentum since 1995 and offers consistent, quality view and annotation capabilities to EMC customers.

A significant enhancement to the new version is the addition of bi-directional stamps, which enable customers to create a custom "stamp" with fields containing attributes from the Content Server. The stamps allow for greater visibility into processes such as workflow status -- like what state a document is in -- as well as trigger specific actions based on data fed back to the database.

Brava 6.1 for Webtop includes all the benefits of the latest Brava version, including:

- Dynamic, bi-directional stamps that can either push or pull metadata from the Content Server
- Redaction enhancements, including redacting a page or page range and peek through (reverse redaction)
- Enhanced CAD measuring tools like the ability to set a default scale
- Added/improved support for architectural and metric units

"We are committed to providing the best in quality and performance to our EMC customers," said Gary Heath, President and CEO of IGC. "The new capabilities in Brava will have immediate impact in terms of efficiency and speed for users and the overall business process."

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IGC will also demonstrate its Redact-It Enterprise Server software for EMC® Documentum at EMC World. Redact-It Enterprise is the only solution of its kind that can intelligently detect and remove sensitive information and integrates seamlessly to Webtop, making redaction an effortless part of business processes.

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Magma's FineSim SPICE Certified for TSMC SPICE Tool Qualification Program

19 May 2009

[Magma® Design Automation Inc.](#) announced that FineSim™ SPICE has been certified to meet the accuracy, performance and process compatibility requirements of the TSMC SPICE Tool Qualification Program. Designers can now use FineSim SPICE with the TSMC Model Interface (TMI) on any design targeted at TSMC N40 nanometer processes with a higher level of confidence in achieving first-time silicon success.

"The link between FineSim SPICE and TSMC processes has been enhanced," said Tom Quan, deputy director of Design Services Marketing at TSMC. "Magma's aggressive adoption of TMI ensures that customers will benefit from further improvements in simulation accuracy and performance."

"This qualification from TSMC gives our customers more confidence and flexibility in verifying their most challenging designs," said Anirudh Devgan, general manager of Magma's Custom Design Business Unit. "Many of our customers have already benefited from increased speed and capacity enabled by FineSim SPICE's Native Parallel Technology™ Now the benefit will be further enhanced when using the TMI with FineSim SPICE and FineSim Pro."

FineSim SPICE: Simulating Advanced Circuits

FineSim SPICE is a SPICE-level simulation analysis tool that incorporates transistor-level simulation analysis capabilities for mixed digital and analog designs. FineSim SPICE is a full SPICE simulation engine with distributed processing that enables customers to simulate large-scale mixed-signal system chips at the transistor level. By providing increased speed and capacity while maintaining full SPICE accuracy, FineSim SPICE enables designers to simulate advanced circuits -- such as PLLs, ADCs (analog-to-digital converters), DACs (digital-to-analog converters) and gigahertz SERDES (SERializer/DESerializer) -- that they previously would not even attempt using slower traditional SPICE simulators.

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New Sopheon Software Links Idea Development to Strategic Product Planning and Execution

May 19 2009

Sopheon announced the introduction of an addition to its software system, Accolade. Called Idea Lab, the new solution is the result of a partnership between Sopheon and Hype Software, a German-based supplier of idea management software for product development. According to Sopheon, the offering expands Accolade's capacity to strengthen the early stages of product innovation, and creates the first software solution in the industry to provide all-in-one support for strategic product planning, ideation and innovation process execution.

A Complete, Virtual Laboratory for Idea Development

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Sopheon's new Idea Lab software provides the adopting organization with a comprehensive set of consistent, sustainable processes for successful ideation. Idea Lab can be used to launch and manage campaigns, publicize and motivate participation, and to establish communities of innovators within which ideas can be solicited, shared and evaluated. The solution enables easy examination of the fit between newly generated concepts and roadmaps and other plans, ensuring that the ideas selected for development are aligned with market, technology and corporate- growth strategies. Idea Lab supports scoring and filtering of ideas, as well as voting-based assessment. The software contains process elements that also allow submitted ideas to be challenged and expanded. High-value ideas are forwarded into a gated process for concept development. The remainder can be stored in Idea Lab's idea bank for future consideration.

In most companies, ideation efforts suffer from a lack of focus: too many ideas and not enough resources to implement them. Organization and prioritization are essential to the generation of value. Idea Lab allows users to electronically arrange promising ideas by categories such as innovation type, product line, enabling technology or target market, making it easy to find those that are relevant to specific business issues. Ideas can be ranked, merged or rejected, and similar ideas can be organized inside portfolios for further evaluation. Contributors are incented by the solution's built-in reward and recognition mechanisms.

An Incubator for Breakthrough Product Innovation

Individual effort generates good ideas. Collaboration generates great ones. Idea Lab offers a rich mix of features that encourage and facilitate knowledge transfer and collaborative ideation. Ideas can be shared with targeted users or made visible to innovation communities throughout the enterprise for system-aided feedback and discussion. Idea submitters are made aware of individuals within the organization who have related interests. The software provides an ideation commons where these contacts can easily converge, exchange thoughts and initiate action. The resulting dialogue and work collaboration not only help further shape existing ideas, they can spark additional ideas that build on initial concepts and potentially turn them into transformational innovation.

Idea Lab fosters serendipity by automatically showing the user previously submitted ideas that are similar to his/her submission, and notifying him/her when new ideas of potential interest enter the system. The software features Idea Browser™, an embedded navigation engine that enables easy discovery within Idea Lab's repository of concepts, campaigns and idea challenges, oftentimes inspiring further ideation.

Innovation Strategy, Ideation and Execution in a Single Solution

New ideas are rarely in short supply. Most organizations have an abundance of them. But generating ideas and being able to turn those ideas into revenue and profit are two entirely different things. One of the greatest shortcomings of traditional idea and innovation management software is that it focuses only on the generation, organization and, in the best cases, evaluation of ideas. There is no systematic alignment of ideation with strategic planning, and no support to help users traverse the potential "dead zones" that separate the generation of ideas from getting those ideas into the developmental pipeline and through to the market.

Because Idea Lab is a component of the Accolade software suite, it is easily connected to the solution's broader capabilities, including product planning, product portfolio management, and innovation process automation and governance. This integration surmounts the challenges of transitioning from one process stage to another. At the front end of the innovation cycle, Accolade's Vision Strategist™ component delivers automated support for the development of strategic product plans. The plans feed into Idea Lab, where they become part of the litmus test for evaluating the strategic fit and viability of

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submitted ideas. The most promising concepts seamlessly migrate from Idea Lab into the user's Accolade-supported gate- or phase-based innovation processes, ensuring that they are not fumbled in the hand-off and reducing the time it takes to turn ideas into products. Accolade also subsequently supplies the product portfolio management, commercialization and post-launch support required to manage newly created products until they are retired from the marketplace.

“Innovation isn't about the number of ideas an organization generates,” said Bryan Seyfarth, director of product marketing for Sopheon. “It's about business outcomes and results. With the addition of Idea Lab, Accolade allows organizations to draw a direct line between ideation and revenue and profit growth.”

Idea Lab is available immediately for purchase and implementation as part of the Accolade software suite.

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Panasas and ANSYS Boost Engineering Simulation Productivity

20 May 2009

Panasas, Inc., a leading provider of high-performance storage for the world's most performance-intensive applications, and ANSYS, Inc. announced significant performance enhancements in ANSYS® 12.0 software when combined with Panasas' newest products. The combined solution, using Panasas' ActiveStor Series 7, 8 and 9, enables the use of a parallel file system for input and output (I/O) of simulation data files. This hardware/software combination overcomes performance bottlenecks related to conventional network attached storage and achieves significantly higher levels of simulation throughput. Customer field testing has demonstrated improvements in turnaround time of more than 200 percent compared to the previous release running on a network file system (NFS). The combination of ANSYS 12.0 and Panasas storage optimizes a company's engineering resources and helps it leverage Simulation Driven Product Development™.

“Our customers are achieving new levels of productivity using this breakthrough technology, which allows them to successfully deploy simulation on larger-scale computing platforms and to efficiently consider extremely high-fidelity simulations,” said Jim Cashman, president and CEO at ANSYS, Inc. “Data intensity is a key concern for users of simulation, and the Panasas storage solution adds value across the full range of software products from ANSYS.”

Manufacturers increasingly rely on engineering simulation software from ANSYS and high-performance computing to drive innovations in product and process development. ANSYS customers require a computing and storage infrastructure that scales both processing and data transfer. A study conducted by Panasas, [ANSYS](#) and the University of Cambridge, which documented the benefits of the new parallel storage solution, found speedup of up to 2.3 times for total job turnaround and increases in data write speed of 39 times. More information on this study is available at www.panasas.com/isvs/ansys.

“Users of engineering simulation face ever-growing data bottlenecks that, if not resolved, can quickly reduce productivity to non-competitive levels,” said Stan Posey, director of industry and applications marketing at [Panasas](#). “Working with ANSYS, we are enabling our mutual customers to grow their competitive advantage by achieving faster time to market, improved product quality and lower product development costs.”

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Spatial Advances Handling of Imported 3D Geometry

May 19 2009

Spatial Corp., announces availability of [3D ACIS® Modeler](#) and [3D InterOp Suite](#) Release 20 (R20). The new release advances capabilities for handling import and modification of data within 3D applications, improving end-user productivity and streamlining work-flows in areas such as specialized design, analysis, manufacturing, and inspection. R20 further promotes an application's value in the product development process by enabling high-quality data exchange and near immediate usage of CAD models for application-specific needs.

As an example, 3D ACIS modeler enables applications that specialize in ship design to import the complex geometry of curve and surface hull forms and create full 3D models. R20 improves the conversion of imported hull data to thin wall structures, resulting in increased end-user productivity and accelerated project time-lines.

R20 is integrated in the [Rapid Application Development Framework \(RADF\)](#) which accelerates 3D application development and improves time-to-market for software providers and software-enabled machine manufacturers. Enhancements are made to 3D Springback, an application component that facilitates a one-step method for springback correction of 3D models within manufacturing applications. R20 includes the following:

Additional product manufacturing information (PMI) support

Offset path generation for CMM applications

Improved tolerant blend creation for mold and die applications

Diagnostic information for better problem resolution

UNICODE support for data import of local languages

Upcoming R20 Webinar

Spatial and Optimal Solutions, a Spatial development partner, will provide a live demo of R20, RADF, and Sculptor™ on **Thursday, May 28th, at 10:00am EDT** (14:00 UTC). Please register [here](#).

Evaluation Program

[3D ACIS® Modeler](#) and [3D InterOp Suite](#) R20 is available for a free evaluation. Evaluation [Request forms](#) are available on the company's website.

For full release, visit <http://www.spatial.com/news/spatial-advances-handling-imported-3d-geometry>

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