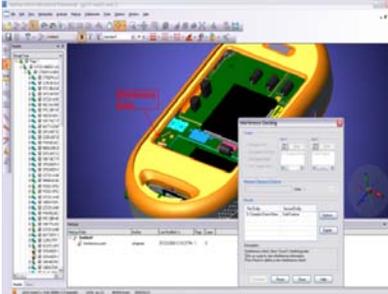


## Improve Visibility of Product Information throughout the Product Lifecycle with AutoVue Enterprise Visualization



AutoVue delivers access to in-context product information throughout the product lifecycle.

### Analyst Perspective

“Technology complexity, operational complexity and business pressures demand that companies excel in decision making and innovation in all aspects of product lifecycle.”

**Source: IDC Manufacturing Insights, Top 10 Manufacturing Predictions 2012**

“Mature engineering organizations adopt a comprehensive multifaceted product lifecycle view, looking for ways to optimize multidisciplinary product-related decisions”

**Source: IDC Manufacturing Insights, Top 10 PLM Predictions 2012**

“Focus on creating a platform for better decision making with collaboration throughout the product lifecycle & visualization for effective decision making”.

**Source: IDC Manufacturing Insights, Top 10 PLM Predictions 2012**

The high tech industry demands lean innovation and fast introduction to next generation products, however, increasing product network, global supply chain, manufacturing and operational complexity make it challenging for high tech firms to meet these goals. To achieve success organizations require ways to effectively communicate and collaborate on product information throughout the product value chain during innovation, design & development, supply chain, and manufacturing. AutoVue delivers secure access to in-context, visual product information to all stakeholders, internal and external, throughout the product lifecycle, enabling visual decision making, reducing errors & rework, and expediting time to market.

### Drive Profitable Innovation and Enable Collaborative Product Design & Development

Globalization, outsourcing, and mergers & acquisitions have changed the landscape for many high tech companies and created environments in which geographically dispersed and multi-disciplinary teams must work together. These technical and organizational complexities oblige high tech firms to streamline their product development process from ideation to design development and manufacturing, so that all stakeholders throughout the product value chain can effectively collaborate and drive profitable innovation; releasing smarter products, at a faster pace and at lower prices.

With access to the visual context of products during innovation, design review and change management processes, high tech teams can achieve these objectives, as well as reduce lead times and optimize product related decisions. Throughout the innovation process global stakeholders can accelerate new product introductions by enabling participation and contribution of engineering, and more importantly, non-engineering teams in all facets of product-related decisions. With AutoVue, teams typically underrepresented during the innovation process can easily participate and contribute feedback on product data early in the development cycle maximizing innovation and productivity.

Forward thinking companies rely on lean innovation methods, which are about eliminating waste and getting things right the first time. One way to achieve this is through improving the reuse of existing designs and IP. AutoVue’s ability to index and search for text within designs and product documents, improves a team’s ability to locate and maximize reuse of existing designs.

To achieve lean innovation, design review and change processes must be streamlined. AutoVue’s ability to validate design integrity and identify errors earlier, improves first pass product quality, minimizing costly rework, and mitigating the risk of product recalls. When design defects are identified, resolving them quickly is critical. By leveraging a visualization and digital markup solution, designers can capture, communicate and track comments and proposed changes directly within the context of the design, shortening the review cycle and expediting time to market. These digital markups can also be associated to ECRs (engineering change request) and ECOs (engineering change order) within a PLM (Product

### Customer Success

- “There is a huge “wow” factor with AutoVue. Our manufacturing assembly team can now easily view the board file and know right away where the parts should be placed, saving hours in the process.”

*Charlie Davies, Principal ECAE Applications Engineer, Harris Corp.*

### Benefits

- Improve visibility of product information to all stakeholders
- Optimize collaboration between internal resources and external supply chain partners
- Streamline product development and innovation processes
- Protect design intellectual property
- Increase success rate of new product introductions
- Minimize errors, rework & scrap rates
- Accelerate time to market
- Improve product-related decisions

### Capabilities

- Digitally capture & keep track of feedback from all collaboration participants
- Enable Real-Time collaboration between stakeholders
- Share CAD models without risking IP
- Enable text searches during design reuse and product recalls
- Integration with Agile PLM
- Create thumbnails in PLM for fast navigation of complex hierarchies
- Tie markups to ECRs/ECOs in PLM systems
- Provide access to complex design created by MCAD & ECAD authoring tools

Lifecycle Management) system, ensuring that changes are correctly communicated to all stakeholders, throughout the complex supply chain.

Quality management is critical to product success; however when recalls happen, the ability to quickly identify the scope is crucial to brand value and an organization’s bottom line. With a text indexing solution in place, firms can quickly locate parts that have been recalled and identify the products that include them. This optimizes the recall process and mitigates any financial risk or consumer fallout.

### Enable Secure Global Supply Chain Collaboration

Accelerating rates of globalization and outsourcing lead to extended, complex supply chain networks. This can make it difficult to communicate requirements and changes, requiring manufacturers to look for more agile supply networks. With AutoVue, high tech firms can streamline collaboration with key outsourced partners, allowing them to securely share and effectively communicate on product information for joint execution, without jeopardizing intellectual property, a highly sensitive topic.

With access to in-context visual product information, OEMs and supply chain partners can collaborate in real-time during the part procurement process. Visual communication of changes greatly reduces misunderstandings and improves supply chain agility, responsiveness and flexibility; a particular challenge given the various cultures, languages and time zones at play. With AutoVue the quality of parts is improved; reducing costs, lowering rework/scrap rates, and improving on-time order rates.

### Streamline Manufacturing Processes and Expedite Time to Market

For high tech firms with global operations and outsourced manufacturing centers, which are oftentimes located in regions where copyright and IP protection are less than top priority, having a means to securely collaborate with outsourced partners is essential if they are to retain their intellectual property. By facilitating secure and effective collaboration and communication between all parties, operational efficiency is improved. During the creation of operational method sheets, which provide step by step instructions to shop floor technicians, designers and manufacturers can leverage AutoVue to discuss these in real time and ensure understanding without risking IP. Any changes can be noted with markups, shortening the number of design to manufacturing iterations and reducing lead time.

Ensuring the accuracy of engineering designs at time of hand off to manufacturing is paramount if products are to be made correctly. Avoiding rework & shipment delays are key goals for manufacturing organizations, given that production delays and quality errors impact output and time to market. Having a means to validate the accuracy of designs during the manufacturing process is priceless. For example, with AutoVue, PCB manufacturers can validate that their converted CAM files have been properly generated by evaluating them against original ECAD design files. This ensures that the correct product is built and prevents manufacturers from rejecting designs, saving both time and money.

Shop floor personnel and assembly teams can also view CAD models and other product manufacturing information at their work site with AutoVue. With visual access to CAD models, but not the original files, IP is protected and teams can validate missing information for faster manufacturing and assembly.

### About Oracle’s AutoVue Enterprise Visualization Solutions

Oracle’s AutoVue solutions deliver visualization, digital markup & real time collaboration on product information. With AutoVue, internal and external stakeholders throughout the product value chain gain better visibility and collaboration on product information. Dispersed teams and outsourced partners can collaborate and visually communicate on product documents without risking IP, improving time to market, reducing errors, and making more informed, multi-disciplinary product related decisions.

For more information about AutoVue Visualization solutions, call 1-514-905-8400 to speak to an AutoVue representative, or visit <http://www.oracle.com/us/products/applications/autovue/index.htm>



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