New in AutoVue Enterprise Visualization, Release 20.2

Key Features and Benefits

Top New Features and Enhancements

- Augmented Business Visualization – new paradigm in visualization
- Regional area hotspots for 2D CAD, images and PDF
- New 3D Hostpot capabilities
- Improved stamp appearance; transparency, text handling, resizing
- Ability to create fixed sized stamps
- Connected iPad solution with Oracle Virtual Desktop Infrastructure (OVDI)
- Partner-driven, visually enabled mobile asset management solution
- New MCAD, ECAD formats
- Updated AutoVue Document Print Service (DPS) releases - ability to select print layers
- Updated version of AutoVue iSDK – includes Web Services Interface sample code (.NET framework)
- Reliability, stability, security enhancements adhering to Oracle’s Software Security Assurance standards
- Dutch language support

Key Benefits

- Streamline asset maintenance operations and capital projects with Augmented Business Visualization solutions
- Increase wrench time and first time fix rates with visual mobile solutions
- Enable faster, more complete end to end approval workflows and signoffs
- Ensure compliance with regulatory requirements
- Improve security, stability, reliability

AutoVue 20.2 is the latest major release of Oracle’s family of Enterprise Visualization solutions, which continues to set the standard for enterprise level visualization. With the introduction of Augmented Business Visualization, an integration framework engineered to work with enterprise applications, which reconciles information from multiple sources into a single visual & actionable environment, users are presented with richer context making it easier to consume information, identify trends, and take actions. The new release also includes; enhancements for end-to-end approval workflows; solutions to visually enable the mobile workforce on devices, such as tablets PCs and iPads; and timely support for the latest MCAD, ECAD & Office formats.

Augmented Business Visualization - A New Paradigm in Visualization

Augmented Business Visualization (ABV) is a new paradigm in visualization which provides rich and actionable visual decision making environments on all delivery platforms by connecting portions of documents to business data found in enterprise applications. With ABV, information and business data is synthesized from multiple sources into a single visual environment, delivering rich information context to users.

ABV Solutions – Engineered to Work with Enterprise Applications

Partners and systems integrators can develop ABV solutions which enable users to access ERP (Enterprise Resource Planning) data via hotspot links directly from documents and trigger actions, such as creating a maintenance service request, in ERP systems. In this scenario, the document becomes the entry point into key enterprise applications. Data from ERP systems and enterprise applications can be dynamically displayed in documents via AutoVue and turned into color-based visual reports, helping users identify important elements, trends and patterns in a visual context.

Owners and operators of plants & facilities and EPC (Engineer/Procure/Construct) firms in asset intensive industries, such as utilities and oil & gas, are under increasing pressure to optimize their maintenance operations and expedite capital projects. Fast access to accurate asset and project information is key to timely project completion. By taking advantage of AutoVue 2D and 3D hotspots, energy customers can transform business processes, such as capital construction projects, turnaround operations, asset maintenance and reliability, and building commissioning & handover.

Regional Area Hotspots for 2D, PDF & Image Documents

In release 20.2, the ability to create hotspot links has been extended, allowing hotspots in 2D drawings, PDF and image files to be defined as regional boxes, rather than just text strings. This new capability allows for the creation of hotspots that more closely
"At Molex Asia Pacific, we rely on AutoVue to provide our non-technical teams in marketing and sales with access to customer order requirements and any supporting documents and drawings, which come in a variety of mechanical and electronic CAD formats", said James Lim, Regional Technical Systems Manager at Molex Incorporated. "AutoVue release 20.2 provides our teams with access to the most up-to-date format support on the market today. With access to current documents, the quotation process is refined, errors are reduced, and orders are fulfilled as per customer specifications."

"We are excited to include AutoVue visualization capabilities in our leading vMobile enterprise asset management mobile solutions", said Charles Farnell, CEO at Ventureforth, an Oracle Gold level partner. "With visual access to work order documents directly on their tablet PCs, field technicians ensure they have the right documents to complete their work, and are able to capture a digital record of onsite repair activities for better accountability and compliance."

match a particular area of interest, such as an object in a drawing, allowing for a more intuitive user experience. It is particularly useful in documents, such as TIFF or scanned files, which contain no textual information.

Figure 1. Color-based visual report created using AutoVue regional area hotspots identifies open vs. complete punch list items during handover operations.

For example, during maintenance planning operations, a maintenance planner tasked with improving asset performance and reliability can create regional hotspot blocks, based on the TAG number of the asset, directly on a plant floor plan indicating which assets need to be repaired. With these links in place, he can click on a particular block to see information specific to that asset, including a list of documents associated to the asset, such as a P&ID (process and instrumentation diagram) document, SOP (standard operating procedure) instructions, manuals, etc. and jump directly to them, allowing him to make faster, more informed decisions. Additionally, work orders can be created and the availability of parts can be checked directly from the drawing for more streamlined processes and better planning and control. With an ABV solution in place, maintenance planners ensure that plant reliability, availability & security are improved.

3D Hotspots Expedite Capital Projects and Complex Maintenance Operations

Release 20.2 introduces the ability to create hotspot links in 3D models and drawings, such as plant designs or floor plans. As part of a 3D ABV solution, the parts or components of a 3D model can be selected as hotspots to trigger actions in ERP systems or, alternatively, can be highlighted as part of a visual dashboard. For example, during large capital construction projects, project control managers can navigate a 3D model of a project and use 3D hotspots that have been created in the document to quickly access material count or code information for a particular piece of equipment from the ERP system. With a 3D ABV solution, the project manager can easily view color-coded, visual dashboards highlighting the status of equipment, and quickly identify items that have been ordered, delivered, or will be late to arrive. With ready access to this information project planners can quickly adjust their project schedules accordingly, saving precious time and improving project productivity.

Visually Enable Mobile Workforces for Improved Field Service Operations

The use of mobile devices, such as tablet PCs and iPads, during maintenance and field service operations is becoming increasingly prevalent amongst utilities and oil & gas customers. Providing technicians with visual access to work-order related asset documents, while in the field, greatly improves wrench time and first time fix rates.
AutoVue solutions can be integrated into existing content management, product lifecycle management, or enterprise applications, such as ALM and Project Management to name a few. Integrated with existing enterprise systems, AutoVue connects information, people and processes, delivering anytime, anywhere access to vital information and maximizing business process efficiency. Teams can better collaborate around their engineering and business documents and make sound business decisions, driving innovation and operational efficiency.

**RELATED PRODUCTS**
- AutoVue 2D Professional
- AutoVue 3D Professional Advanced
- AutoVue Electro-Mechanical Professional
- AutoVue EDA Professional
- AutoVue Office
- AutoVue Mobile
- AutoVue VueLink Integrations
- AutoVue Document Print Service

**RELATED PARTNER OFFERINGS**
- Blue Cielo ABV Solution for Engineering Content Management
- Estuate ABV Solution for Enterprise Asset Management
- Ventureforth Mobile Asset Management Solution

**Visually Enabled Mobile Asset Management Solutions**
Oracle partners that have developed mobile solutions around Oracle Asset Lifecycle Management systems are visually enabling their mobile offerings with AutoVue integration. With AutoVue on their tablet PCs, repair technicians can easily access the documents and drawings associated with a given work order which are needed to complete the work. They can view part drawings and annotations from previous maintenance work, as well as add annotations to drawings and photographs taken on site, indicating the nature of the repair work or documenting any surprises encountered in the field. When back online, workers can minimize the re-entry of data by syncing field updates to enterprise systems, capturing a reliable audit trail of onsite activity.

**Leverage AutoVue on the iPad with Oracle Virtual Desktop Infrastructure**
In release 20.2, AutoVue introduces a connected iPad solution with Oracle Virtual Desktop Infrastructure (OVDI). OVDI provides a virtualized desktop environment which can be accessed from an iPad. OVDI allows mobile workers to access their enterprise systems – including AutoVue – directly from an iPad, allowing them to access all of their usual tools even when away from their desks. Through the use of a wireless or 3G connection, the solution enables users that are connected to the virtual desktop to access all of AutoVue's capabilities, including annotation, compare, etc. This solution works with any desktop-based enterprise system, such as eAM or Peoplesoft, but will not work with native iPad applications. Maintenance teams that are using iPads in field operations can now leverage AutoVue in mobile scenarios.

**Enhance End to End Approval Workflows with Digital Stamping**
Approval workflows in public sector and the energy space are time-consuming and involve large volumes of documents which need to be processed in an efficient manner. Building permit application approvals or supplier/contractor project reviews can include dozens or hundreds of documents, so having a digital means to approve them is key to ensure better accountability and compliance. AutoVue stamps can retrieve and include information and attributes, such as project name, from backend systems (document/case management systems) or local machines, and alternatively data entered into the stamps can be pushed into backend systems, enabling users to accelerate their business processes with faster, more complete end-to-end approval
“The latest release of Oracle’s AutoVue includes many new stamping enhancements which will greatly benefit our building permit management processes”, said, Ties Kremer, Information Manager at the Noordenveld Municipality in the Netherlands. “The ability to batch stamp documents will serve to speed up our approval processes, enabling us to save time and money. Additionally, AutoVue 20.2 will help the municipality meet its regulatory compliance obligations by ensuring that digital stamps appear at the government required size and location on a permit application.”

Figure 3. Maintenance technicians can navigate equipment drawings on an iPad— a two finger tap brings up the right-mouse menu, and then a normal tap opens the detailed drawing workflows and digital signoffs. AutoVue batch stamping can also be leveraged to increase productivity and accelerate the approval process. Municipalities can, for example, use batch stamping to expedite permit application approvals, allowing them to deliver faster responses to their citizens and better service. The ability to modify the design, appearance and fixed size of stamps also enables Municipalities to comply with regulatory requirements around the size and location of digital stamps on permit applications. Customers involved in capital projects that review & approve numerous documents between contractors and vendors can also take advantage of AutoVue’s stamping and batch stamping capabilities to improve their approval workflows.

Continued Enterprise Readiness
AutoVue 20.2 includes reliability and stability enhancements, which serve to strengthen AutoVue’s enterprise availability. Improvements to security mechanisms, which adhere to Oracle’s Software Security Assurance standards, have also been introduced, as have measures to simplify deployment and administration of AutoVue.

Timely New Format Support
Release 20.2 continues AutoVue’s format leadership in the high tech and industrial manufacturing spaces with the inclusion of support for several new formats, as well as fidelity improvements to existing ones. New formats added in release 20.2 include:

- **ECAD:** Cadence Concept HDL 16.5, Allegro Layout 16.5, Orcad Capture 16.5, Board Station ASCII Symbol Geometry, Cadence Cell Library
- **MCAD:** CATIA V5 R21, PTC Creo 1.0, Creo Element/Direct Modeling 17.10, 17.20, 17.25, 17.30, 18.00, SolidWorks 2012, SolidEdge ST3 & ST4, PLM XML
- **2D CAD:** Creo Element/Direct Drafting 17.10 to 18.00
- **Office:** MS Office 2010: Word, Excel, PowerPoint, Outlook

Contact Us
For more information about Oracle’s AutoVue solutions, call +1.800.363.5805 or +1.514.905.8400, email us at autovuesales_ww@oracle.com or visit http://www.oracle.com/us/products/applications/autoVue/index.html

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