

AGILE ENGINEERING COLLABORATION

KEY FEATURES & BENEFITS

KEY FEATURES

- Designs integrated into product record
- Access from native design applications
- Mechanical and electrical CAD support
- Software and firmware support
- Collaborative workspace
- Live and offline design reviews

KEY BENEFITS

- Control intellectual property better
- Increase accuracy of design information
- Enable enterprisewide collaboration
- Accelerate time to revenue
- Increase engineering efficiency
- Reduce direct material costs
- Drive innovation
- Maintain design integrity

"We've been able to improve processes, which previously required over 1,200 manual entries, to a two-minute, drag-and-drop operation. This has a huge impact on cost reduction, time to market, and volume production, and all of our downstream processes, including sourcing and manufacturing."

—William Palleschi,
Engineering Manager,
Credence Systems

Oracle's Agile Engineering Collaboration links product designs to the enterprise product record. It enables design teams to contribute new product design information and collaborate with teams and partners across the enterprise on all aspects of bringing the product to market. The solution encourages design innovation, enforces design integrity, and allows companies to rapidly and effectively transition products from engineering to manufacturing.

The Engineering Collaboration Challenge

Many corporations have difficulty controlling and sharing design information with key stakeholders. This problem is exacerbated by distributed engineering and design teams, outsourced manufacturing, and multitiered supply chain networks. Some corporations have workgroup data management systems that house departmental engineering information. However, design information is usually scattered among multiple systems and scores of individual users, rather than centrally managed and integrated with the enterprise product record.

These organizations face significant challenges because they don't have timely, accurate design information. Design reuse becomes time consuming—if not impossible—and part proliferation becomes common practice. In addition, these companies have no secure method to control, manage, and share intellectual property, which leads to millions of dollars in lost profits each year.

Agile Engineering Collaboration improves and streamlines engineering processes across your distributed organization with a broad range of functionalities to support product development, from the crucial concept phase through the entire lifecycle.

Design Integration

The design integration functionality within Agile Engineering Collaboration extends Oracle's Agile product lifecycle management platform to the designer's desktop. It enables engineers and designers to access and leverage product designs within an enterprise design vault. Engineers can parametrically search for, check out, modify, and version mechanical and electrical computer-aided designs (CAD); access design software and firmware; and view technical publications—all directly from their native design applications. By storing the enterprise product record within Agile product lifecycle management, you gain a single heterogeneous view of product data regardless of its source. The design integration functionality allows operations, engineering, and configuration management to efficiently work together to manage work-in-process design information and product changes and updates. The solution also decreases time to market by streamlining the product release process.

RELATED PRODUCTS**AGILE PRODUCT
LIFECYCLE
MANAGEMENT**

Agile product lifecycle management helps companies accelerate revenue, reduce costs, improve quality, ensure compliance, and drive innovation throughout the product lifecycle. With a broad suite of best practice, enterprise-class product lifecycle management solutions, Oracle helps you get the most from your products.

RELATED PRODUCTS

- Agile Product Portfolio Management
- AutoVue Electro-Mechanical Professional for Agile
- Agile Product Collaboration
 - Agile Product Governance and Compliance
 - Agile Product Cost Management
 - Agile Product Quality Management

Design Collaboration

The design collaboration functionality within Agile Engineering Collaboration creates a joint workspace for engineers to share designs with other engineers, as well as with purchasing, marketing, operations, and suppliers, to obtain critical feedback prior to design release. This functionality enables anyone with privileged access to initiate a design review at any time and captures session results that can be viewed later in the product record history. Design reviews and supplier reviews can be live, with multiple participants contributing feedback simultaneously, or they can be offline, with participants engaging at their convenience. The design collaboration functionality minimizes the number of design prototypes engineers must develop, and ensures that manufacturing builds the product as it was designed.

The solution integrates with Agile product lifecycle management and Oracle's AutoVue Electro-Mechanical Professional, allowing users to view and mark up hundreds of file formats; create electromechanical digital mockup sessions; speed design reviews with precise measuring; compare design alternatives to determine what parts have been added, removed, or changed; section 3-D models to draw attention to internal structures; find nets and components by cross-probing between the printed circuit board layout file and their related schematics; test for manufacturability by validating printed circuit board design integrity; and more.

Design Publication

Engineering designs are systematically converted into bills of materials with the design publication functionality. Links from the design structure to the enterprise product record are maintained with complete, up-to-the-minute definitions of a company's products—including bills of materials, specifications, drawings, models, and approved manufacturer lists. This enables design teams to contribute new product design information and collaborate with teams and partners across the enterprise on all aspects of bringing the product to market.

With design publication functionality, product record changes are synchronized from Agile product lifecycle management to the CAD tool, ensuring that title blocks on drawings are up to date. All ongoing design changes are synchronized with the product record to ensure that what gets designed is what gets manufactured.

Contact Us

For more information about how your organization can leverage the power of Oracle's Agile Engineering Collaboration, please visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.

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