

# Arena PLM – Oracle ERP Integration

Accelerate Time to Market With Streamlined Integration  
Between Arena PLM and Oracle E-Business Suite



## OVERVIEW

Innovative product companies rely on Arena PLM to help deliver better products, quickly and easily. They also leverage Oracle E-Business Suite (EBS) to drive effective manufacturing planning and execution processes. Both systems complement each other by managing product data including complex bills of materials (BOMs), engineering change orders (ECOs), and product revisions. While Arena manages the product record throughout the new product development process, Oracle EBS needs the same information to procure, manufacture, and ship high quality products to market on time and within budget.

The Arena PLM – Oracle ERP Integration powered by Triniti's Oracle expertise, along with Triniti's inventive approach to application data management (ADM), reduces risk and ensures seamless integration. Additionally, Arena ERP Exchange coupled with Triniti's ADM methodology facilitates easy configuration between Arena PLM and Oracle EBS. This feature ensures an automated flow of critical product record information (e.g., parts, BOMs, AML/AVL data) between the two systems. When companies move from development to production, the Arena change approval process triggers an automated transfer of product data to Oracle EBS in real time.

## HOW IT WORKS

The Arena PLM – Oracle ERP Integration automates the process of transferring new and updated product record data from Arena PLM to Oracle EBS, ensuring Oracle production information is always up to date.

- Arena's ERP exchange solution is configured and scheduled to export data upon the change release
- Upon release, ERP Exchange transfers product data into a PDX package (XML format)
- Triniti's Oracle adapter receives the XML file and processes it into Oracle ERP after proper translations, validations, and applications of the customer's business rules

## BENEFITS

### ✔ Time to Market

- Accelerates the time to move from design to full production

### ✔ Cost and Error Reduction

- Eliminates costly, manual data entry errors and allows impacted business users to focus on their valuable core competency
- Ensures a "single version of truth" by seamlessly integrating Arena PLM and Oracle EBS

### ✔ Flexibility

- Flexibility in data transfer: facilitates either on-demand or automated data flow
- Configurability of business rules without changing the integration code after go-live
- Easy to deploy within existing Oracle ERP infrastructure

### ✔ Error Management

- Integrated error management enables reprocessing of data upon resolution
- Keeps all product record data on TRAC (timely, reliable, accurate, and complete)

### ✔ Standardization

- Standardizes data creation processes from concept to production via consistent application of business rules for all product data
- Action code management same as standard Oracle interfaces

### ✔ Visibility and Control

- Facilitates visibility of product data from Arena PLM and Oracle EBS
- Arena and Oracle workflow ensures that all data required for product manufacturing is transferred and impacted stakeholders are notified

## TRANSFORMATION LAYER



TRINITI  
Arena-Oracle Adapter

## ORACLE INTERFACE



### Integration Without Intervention

- When a product is released in Arena, the integration is configured to transfer the data automatically without user intervention. This eliminates delays and errors in data synchronization between Arena and Oracle.
- All the data files for every product are processed sequentially leveraging the built-in data validations to ensure information is transferred accurately and completely.

### Standardized Data Mapping

- Product record data in Arena is mapped to the appropriate attributes in Oracle EBS.
- Dating mapping can be configured for many customer requirements.

### Independent of EBS Definitions

- Triniti's Oracle Adapter works independently of key configurations in Oracle EBS such as item flex fields, category sets, and catalog structures.
- Based on the customer's business requirements, the Adapter can be configured easily to create and update the product data within Oracle EBS accurately. For example, the Adapter supports single or multi-segment items and categories.

### Application of Business Rules

- Triniti's Oracle Adapter provides configurable business rules to validate and derive Oracle EBS-specific metadata such as Organizations, Item templates, and Category sets.
- The use of predefined templates and business rules, like organization assignments, help derive data based on configurations defined in Triniti's Oracle Adapter without the need of programming.

### Error Management

- Triniti's Oracle Adapter provides complete visibility for all data transferred from Arena to Oracle EBS via data management screens built using standard Oracle technologies.
- Arena product data that fails the validation process is not transferred to Oracle EBS. This ensures that incomplete product data is not transferred.
- Alerts and emails proactively notify users of errors.
- Responsible business users can access the error records to take corrective actions. Data is only transferred when ALL information is accurate.

### Workflow Enabled

- Leveraging Oracle's workflow technology, Triniti's Oracle Adapter sends notification to different teams (e.g., product planners, cost managers, etc.) to capture planning costing, and other ERP-specific data for all items released from Arena PLM and passed successfully into Oracle EBS.

### Impacted Product Record Data

- Item creation and updates
  - Organization assignments
  - Template assignments
  - Category assignments
  - Attribute updates
  - Costs
- BOM creation and updates
  - Primary and alternate BOMs
  - Applied component defaults
  - Condensed BOM with required components for ERP
- Manufacturers and vendors creation
  - Approved vendor/supplier lists (AVL/ASL)
  - Manufacturer part numbers (MPNs) from Arena AML data

## ABOUT ARENA

Arena, a PTC Business, helps companies create innovative products that change the world. Arena unifies product lifecycle management (PLM) and quality management system (QMS) processes, allowing every participant throughout product development and commercialization to work together fast and effectively. With Arena, dispersed teams accelerate the design and delivery of quality products. For more information, visit [Arena, a PTC Business](#).

## ABOUT TRINITI

Founded in 1997, Triniti provides world-class business and application consulting, along with software products specifically designed to extract the full value of Oracle's E-Business Suite. Triniti products and Oracle E-Business Suite implementations are designed to deliver a finely tuned, robust environment that supports consistent, fact-based decision-making in real time. Triniti has successfully led large multi-site, multi-country "big bang" implementations of the entire e-business suite. Visit [triniti.com](http://triniti.com) for more information.