

Connecting Arena and ERP

Automating your design to operations processes

OVERVIEW

Creating quality products in this fast-paced world isn't easy. Your product processes involve multiple teams, locations, partners, suppliers, and vendors. Yet your dispersed teams must work from the same design, stay on budget, and respond to customer demands. You want to deliver better products, faster and easier. And you want to create innovative solutions to change the world.

Innovative product companies rely on Arena to help deliver better products, quickly and easily. And they leverage your enterprise resource planning (ERP) systems to plan and execute manufacturing processes to deliver innovative products to market. When these cloud systems are integrated, engineering teams make better design decisions with current supply chain information like cost, lead time, and inventory levels. In addition, operations teams can be confident they have the latest released product information to procure, manufacture, and ship high-quality products to customers.

The Arena-ERP Integration delivered by the CADTALK platform accelerates new product introduction (NPI) while reducing expenses, increasing profitability, and speeding time to market.

HOW IT WORKS

The Arena ERP Integration transfers the latest product record information upon release, ensuring efficient and accurate production planning and manufacturing processes. You have the choice of a unidirectional integration of Arena data flows to your ERP system or bidirectional with ERP data being shared to Arena. This integration provides the following capabilities:

Unidirectional Capabilities

- Regularly retrieves new and revised product record information (e.g., item master, BOM, and AML records) when Arena ECOs are released
- Reads the product record information and updates the ERP item master and BOM records, as well as the approved manufacturer when appropriate

Bidirectional Capabilities

- Provides supply chain information like cost and inventory information from ERP back to Arena

BENEFITS

✓ Accelerate Materials Requirements Planning

- Speeds updates when an Arena ECO releases a new product or changes an existing one

✓ Reduce Cost and Errors

- Eliminates manual data entry expenses and errors while enabling valuable team members to focus on their core competencies
- Ensures a single version of the product record by seamlessly integrating Arena and your ERP system

✓ Design for Supply Chain

- Provides supply chain information to design and component engineering

✓ Agility and Scalability

- Scales to meet your company's needs
- Minimal in-house IT resource impact

✓ Manage Exceptions and Errors

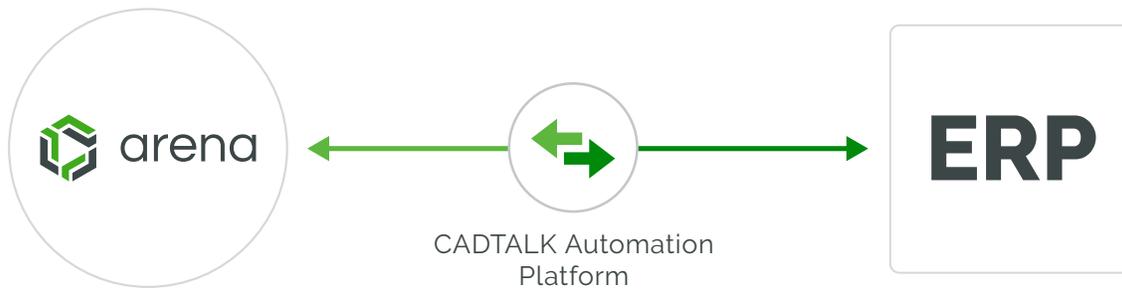
- Logs and notices on exceptions
- Provides easy review of errors and reprocessing of data upon resolution

✓ Standardize Processes

- Offers consistent data creation and configuration processes from concept through production with standard business rules

✓ Feel Confident

- Ensures your operations teams always have access to the latest product design information
- Supports continuous improvement



CAPABILITIES

Unidirectional Item Creation and Updates

- Creates and provides updates to ERP critical item master information including item name, description, and other key standard and custom attributes
- Supports manufactured, purchased, and subcontracted sourced items
- Updates changes to the BOMs including changes to components, component quantities, and effectivity dates
- Creates ERP Approved Manufacturers List (AML) from Arena AML record when supported by ERP
- Transfers manufacturer's part numbers from Arena AML to ERP when supported by the ERP system

Bidirectional Item Updates

- Updates Arena with cost, lead time, and other supply chain data from from the ERP system BOM Creation and Updates

Mapping Options

- Field mapping and data transformations handled by the CADTALK automation platform with customer business logic supported

START ANYTIME

It doesn't matter where you are in your journey with Arena. You can implement the Arena-ERP Integration at any time. CADTALK, an Arena partner, provides the integration, installation, and configuration assistance, and customization services as needed along with ongoing product upgrade support. With proven solution and business expertise, you will enjoy short implementations, limited impact to resources, and the lowest total cost of ownership.

ABOUT ARENA

Arena by PTC, 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 by PTC](#).

Integration Architecture and Methods

- The Arena-ERP Integration uses both Arena and the ERP system's latest supported API and integration methods
- Integration can be automated to run as frequently as every 15 minutes
- Integration can be triggered manually with specific date and item parameters
- Easy to configure and implement

Error Handling and Data Validation

- Sequential data processing with built-in data validation to ensure accurate and complete data transfer every time
- Continual monitoring of product data updates and error alerts
- Automated emails with error logs
- Use interface for troubleshooting and reconciling errors

ERP Systems on CADTALK Platform

- Please see Arena Marketplace listing for the current list of support ERP systems.

ABOUT CADTALK

CADTALK has provided world-class CAD to ERP and PLM integration and implementation since 2005, with customers throughout the world. With a deep understanding of ERP, PDM, PLM, and CAD software and the challenges facing manufacturing companies, CADTALK provides deep and robust integrations that can be configured for each customer's needs. CADTALK has partnerships with all the major CAD/PDM/PLM vendors. For more information, visit [CADTALK.com](#)