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JD Edwards EnterpriseOne Blend Management

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Increasing global competition, mergers and acquisitions, and technical innovations in the food and beverage industry are forcing producers to seek fully integrated business automation solutions based on ERP systems to improve operational effectiveness and efficiency. These producers are looking for increased visibility, repeatable processes, and quality control.

KEY FEATURES

Blend Operations

- Base operations and configured operations
- Operations, work orders, schedules and jobs
- Dependency

Vessel Management

- Vessels
- Vessel operations
- Virtual barrel tanks
- Gains and losses

Lot Management

- Lot child entity attributes
- Summary attributes
- Lot blending
- Operation trace and track

Product Specifications

- EUR profile
- Product specs
- Validations and protocols
- Planning data

UX One Pages

- Winemaker
- Cellar Manager

The Issue: Growing Complexity in Your Blended Product Business

Over the years, your business has created many award-winning beverages from blended components. As you have become more successful, the complexity of lot management, vessel operations, product specifications, and operational tracking and traceability has also increased. Many of your products also have unique lots and are sold in a heavily regulated market with myriad local, national, and international standards promulgated by different public and private organizations, some of which can impart legal regulations not just on the final product but on various steps before final packaging. Your blended products need end-to-end traceability with tracking of solid details from all aspects of your blending operations.

Today, your firm might be using basic desktop applications such as a spreadsheet or an industry-specific software package but you need integration into your accounting system, human resources database, and distribution system. Since product blending is “ad hoc” by its very nature, standard MRP or ERP process manufacturing applications do not meet your needs for today nor will these software packages support your future path for growth across multiple continents.

The Solution: Food and Beverage Operational Software Integrated in ERP

Oracle’s JD Edwards EnterpriseOne Blend Management provides you with an integrated, web-based solution to manage all aspects of your blended product in association with a robust, one-database, ERP software. With Blend Management, you integrate all aspects of your food and beverage production across your small or large, local or global organization to encompass your needs for purchase orders, sales orders, accounts payable, accounts receivable, and a financial general ledger with a common address book and item master.

Blend Management of Various Products

Although JD Edwards EnterpriseOne Blend Management has its roots in the global wine industry, the module is applicable to any business operation that involves blended

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liquids for human consumption including:

- Juices
- Distilled spirits
- Powders or aggregates

Solving a Plethora of Problems

Your products have unique values for each production method. With JD Edwards EnterpriseOne Blend Management, you identify weighted averages, and maximum and minimum values for each component of the blend. Managed blends include tracked component lots for different products. Consider these questions:

- Which products contain Grower ABC's grapes?
- Product 123 is made up of which block's berries?
- Which product lots contain additive 345?

Your operation may also require answers to complex, yet typical, scenarios for production. For example, with Blend Management you accumulate and apply the attributes of individual barrels to a final product configuration. Consider a group of 5 American oak barrels and 15 French oak barrels that result in a style of 75 percent French oak and 25 percent American oak.

Similarly, operational monitoring goes well beyond product management. You configure multiple operations to be performed on your product during its creation and storage, check individual status flags and data fields for each specific step, and track the effects of individual, actual value, attributes. For example, the operational effect of the attribute "material type" can be tracked to each resulting lot of juice produced at your facility.

Feature/Function Highlights

- **Maintain key lot attributes:** Lot attributes are recalculated whenever an activity is performed against a blend lot. In addition, because work can be scheduled for the future, any change to any of these lot attributes on the current lot is pushed forward to all associated activities in the future. Lot attributes include:
  - Source **composition** (harvest, variety and appellation, expressed in percentages)
  - **Quality** results
  - Cumulative **additives** (expressed in parts per million)
  - Additive Threshold Checking—Specify active ingredient limits per specific operation level or the cumulative result for all operations over a blend lot.
  - Component **costs**
  - End use reservation (intended use of the material)
- **Sample Management:** Manage sampling requirements, including sample size, container, instructions**, and** the ability to reuse samples for more than one quality test to gain visibility and control over the sampling process.
- **Manage vessels:** View the current blend lot attributes in a vessel, as well as planned lots from future operations, and a history of lots from completed operations.
  - Override Lot Attributes—retains user overrides of lot attributes when making a new vessel assignment or swapping out vessels so the operator does not have to re-enter the information, thus improving productivity and reducing errors.
- **Define and manage blend activities:** Define an overall blend process with configured operation types giving producers control and visibility. Each configured

operation drives display and validation of entered data and defines the costing, accounting, and reporting methods. Types of operations include:

  - Simple movements—single from vessel, single to vessel
  - Complex movements—multiple vessels on either from or to side
  - Additive and topping operations—multiple vessels on either from or to side
  - Additions of non-bulk material
  - In-place operations such as stirring, temperature control
  - Receipt and shipment—weigh tag, bill of lading, and bottling. These create entries into and out of ERP inventory.

- **Instruct work activities (operations):** Define any process or group of processes that have measurable inputs and outputs. Operations may have related equipment, consumables, staff allocation, and instructions on how to perform the operation. Each operation creates a blend lot as an output, even if scheduled for the future after other work activities. The system recalculates the chain of operations and lot attributes if the user updates a previous operation.
- **Manage volumes of spirit:** Supports both temperature and percent alcohol parameters.
- **Simulate trial blends:** Assess blend lot attributes without instructing work. This application includes a goal-seeking function, where the user can have the system calculate the quantity of a specified blend lot to add to a trial blend to reach a specified attribute value. The system simulates blending, captures results, and compares results of various theoretical trial blend operations.
- **Access UX One pages:** Winemakers and Cellar Managers can access UX One role-based pages to easily access, review, and act upon important information, thereby managing all aspects of your blended products.

Solution Integration

This module is integrated with the following JD Edwards EnterpriseOne products and families across your operations using common tools and a Pure Internet Architecture:

- JD Edwards EnterpriseOne Financial Management
  - Accounts Payable
  - Accounts Receivable
- JD Edwards EnterpriseOne Food and Beverage Producers
  - Grower Management
  - Grower Pricing and Payments
- JD Edwards EnterpriseOne Order Management

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