

VE110R.MBR

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Business Logic for VE110R

This document outlines the business rules that govern the maintenance of item units in the ASOFAK ERP system, based on an analysis of the RPG program VE110R. The primary focus is on the logic that handles the retrieval, validation, and updating of item unit information.

The core logic for maintaining item units is contained within the main program flow and various subroutines in VE110R. The program processes item unit records, validates user input, and updates the database accordingly.

Order Status and Header Rules

VE110R: vvarl1, vvenl1, vvprl1, vvenlu, vvenlr

1. Record Existence Check

- Logic:** The program checks if the item record exists in the vvarl1 file. If not found, it exits the program.

- File:** vvarl1 (Item master file)

- Field:** vvarl1_key

- Condition:** The process will not proceed if the item record is not found.

2. Item Unit Information Retrieval

- Logic:** The program retrieves item unit information from the vvenl1 file and prepares it for display.

- File:** vvenl1 (Item unit file)

- Field:** vvenl1_key

- Condition:** The process retrieves records only if the item exists.

Configuration and Authorization Rules

1. Subfile Initialization

- Logic:** The program initializes the subfile for displaying item units and clears any previous entries.

- Files:**

- fve110d (Display file for item unit maintenance)

- Fields:**

- b2cmd (Command area for subfile)

- Condition:** The subfile is populated only after the item record is validated.

2. Function Key Handling

- Logic:** The program handles various function keys (F13, F15, F17) to allow users to change statistics, change storage units, or switch units.

- File:** vvenl1 (Item unit file)

- Field:** w_firm, w_vare

- Condition:** Specific actions are taken based on the function key pressed.

Financial and Transactional Rules

1. Input Validation

- Logic:** The program validates input fields in the subfile to ensure correct data entry before updating records.
- File:** b1sfl (Subfile for item units)
- Fields:**
 - b1omre (Measurement unit)
 - b1enhe (Unit of measure)
- Condition:** The process will not update if validation fails, setting error flags accordingly.

2. Price Validation

- Logic:** The program checks if the item unit has a valid price associated with it before allowing it to be selected as a sales unit.
 - File:** vvprl1 (Item price file)
 - Condition:** The process will not allow selection if the price is zero or invalid.
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Special Conditions (Program-Specific)

1. Unit Change Handling (VE110R)

- Logic:** The program allows users to change the unit of measure for an item if the current unit is valid and has a price.
- File:** vvenl1 (Item unit file)
- Field:** vvenl1_key
- Condition:** The unit can only be changed if it has a valid price associated with it.

2. Update Item Unit (VE110R)

- Logic:** The program updates the item unit information in the database based on user input and calculated values.
 - File:** vvenlu (Item unit update file)
 - Fields:** vvenlu_enhe (New unit), veomre (Measurement), vevekt (Weight)
 - Condition:** The update occurs only after successful validation of input fields.
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Subprogram Calls Affecting Logic

Beyond direct file checks, several external subprograms are called that play a significant role in the workflow.

1. VV107R (Change Statistics Unit)

- Trigger:** Called when the user presses F13 to change the statistics unit.
- Logic:** This program handles the logic for changing the statistics unit for the item.
- Impact:** This call allows for the modification of item statistics, which is critical for inventory management.

2. VV108R (Change Storage Unit)

- Trigger:** Called when the user presses F15 to change the storage unit.
- Logic:** This program manages the change of the storage unit for the item.
- Impact:** This ensures that the correct storage unit is associated with the item, affecting inventory tracking.

3. VV109R (Switch Unit)

- Trigger:** Called when the user presses F17 to switch the unit of measure.
- Logic:** This program facilitates the switching of units for the item.
- Impact:** This is essential for maintaining accurate unit measures across different item types.

4. VL710R (Price Check)

- Trigger:** Called during input validation for checking item prices.
- Logic:** This program checks the pricing details associated with the item and its units.
- Impact:** This ensures that only valid pricing information is used for sales and inventory calculations.

5. VL711R (Retrieve Price Group)

- Trigger:** Called during initialization to retrieve the price group for the item.
- Logic:** This program fetches the relevant price group for the item being processed.
- Impact:** This is crucial for determining pricing strategies and ensuring accurate financial records.