

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 related to item unit management, including validation, updates, and user interactions. The core logic for maintaining item units is contained within the main program flow and several subroutines in VE110R. This program handles the initialization of the user interface, processes user inputs, and manages the display and updating of item unit information.

Item Unit Management Rules

VE110R: vvarl1, vvenl1, vvenlr, vvprl1, vvenlu, fve110d

1. Item Existence Check

- Logic:** The program checks if the item exists in the vvarl1 file before proceeding. If not found, it exits the program.
- File:** vvarl1 (Item Master File)
- Field:** vvarpfr
- Condition:** The process will not continue if the item does not exist (not %found).

2. Retrieve Item Unit Information

- Logic:** The program retrieves the unit information for the specified item from the vvenl1 file and prepares to display it.
- File:** vvenl1 (Item Unit File)
- Field:** vvenhe
- Condition:** This action is performed after confirming the item exists.

User Interaction and Function Key Rules

1. Function Key Processing

- Logic:** The program processes function keys for various actions, including exiting, querying, and updating item units.
- Files:**
 - fve110d (Display File)
- Fields:**
 - b2cmd (Command Buffer)
- Condition:** Specific actions are triggered based on the function key pressed (e.g., F13 for changing the statistical unit).

2. Validation of Input Fields

- Logic:** The program validates input fields in the subfile to ensure they meet business rules before updating the item unit.
- File:** b1sfl (Subfile for Item Units)
- Field:** b1omre, b1enhe

- Condition:** The process will flag errors if required fields are missing or incorrect.
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Item Unit Update Rules

1. Update Item Unit Information

- Logic:** The program updates the item unit information in the vvenlu file based on user inputs and validations.
- File:** vvenlu (Item Unit Update File)
- Fields:**
 - vvenlu_enhe (Unit of Measure)
 - veomre (Volume)
- Condition:** The update occurs only if the validation checks pass.

2. Check for Pricing Validity

- Logic:** The program checks if the item unit has a valid price before allowing it to be selected for sales or inventory purposes.
 - 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. Change Statistical Unit (VE110R)

- Logic:** If the user selects the option to change the statistical unit, the program calls another program (VV107R) to handle this change.
- File:** vvarl1 (Item Master File)
- Field:** w_firm, w_vare
- Condition:** Triggered by pressing F13.

2. Change Storage Unit (VE110R)

- Logic:** If the user selects the option to change the storage unit, the program calls another program (VV108R) to handle this change.
 - File:** vvarl1 (Item Master File)
 - Field:** w_firm, w_vare
 - Condition:** Triggered by pressing F15.
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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 Statistical Unit Program)

- Trigger:** Called when the user presses F13 to change the statistical unit.
- Logic:** This program handles the logic for changing the statistical unit for the specified item.
- Impact:** This call updates the statistical unit based on user input.

2. VV108R (Change Storage Unit Program)

- Trigger:** Called when the user presses F15 to change the storage unit.
- Logic:** This program manages the change of the storage unit for the specified item.
- Impact:** This call updates the storage unit based on user input.

3. VL710R (Price Check Program)

- Trigger:** Called to validate pricing for the item unit based on the selected vendor.
- Logic:** This program checks if the item has a valid price from the vendor.
- Impact:** If no valid price is found, it prevents the item unit from being selected for sales.

This documentation provides a comprehensive overview of the business logic implemented in the VE110R program, focusing on item unit maintenance and the associated rules and validations.