

FW112R.MBR

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Business Logic for FW112R

This document outlines the business rules that govern the maintenance of supplier items within the ERP system, based on an analysis of the RPG program FW112R. The primary focus is on the logic related to item retrieval, validation, and updating supplier item records.

The core logic for maintaining supplier items is contained within the *inzsr subroutine in FW112R. This subroutine initializes the program, retrieves necessary data, and processes user inputs to update item records.

Order Status and Header Rules

FW112R: flval1, frlevl1, fvvarl5, flvalu, fw112d

1. Retrieve Supplier Item

- Logic:** The program retrieves the supplier item based on the provided keys and checks if the record exists.
- File:** flval1 (Supplier Item File)
- Field:** flval1_key
- Condition:** The process will not proceed if the record is not found (*in90 is set to *on).

2. Initialize Screen

- Logic:** Initializes the display screen with the retrieved item data.
- File:** fw112d (Display File)
- Field:** Various fields initialized for user interaction.
- Condition:** This step is executed unconditionally after a successful record retrieval.

Configuration and Authorization Rules

1. Input Validation

- Logic:** Validates user inputs for the supplier item fields to ensure correctness before processing.
- Files:**
 - flval1 (Supplier Item File)
 - rlevl1 (Supplier File)
- Fields:**
 - c2lvar (Item Number from Supplier Item)
 - c2tek1 (Description 1)
- Condition:** The program will trigger validation checks and set error flags if any input fields are invalid.

2. Check Expiry Dates

- Logic:** Validates the expiry date and the date of the item against the current date.
- File:** flval1 (Supplier Item File)
- Field:** c2dato (Expiry Date)
- Condition:** The process will set an error flag if the expiry date is invalid.

Financial and Transactional Rules

1. Update Supplier Item Record

- Logic:** Updates the supplier item record with the new values provided by the user.
- File:** flvalu (Supplier Item Update File)
- Fields:**
 - fwlvar (Item Number)
 - fwtek1 (Description 1)
- Condition:** The update will only occur if the record is found and no validation errors are present.

2. Calculate Sales Price

- Logic:** Computes the sales price including VAT based on the input values.
- File:** flval1 (Supplier Item File)
- Condition:** This calculation is performed as part of the item update process.

Special Conditions (Program-Specific)

1. Supplier Item Query (FW112R)

- Logic:** Handles queries related to the supplier item based on user input.
- File:** flval1 (Supplier Item File)
- Field:** c2enhe (Unit of Measure)
- Condition:** The query is executed if the user requests additional information (F4 key).

2. Error Handling (FW112R)

- Logic:** Sets error flags based on validation checks and displays appropriate messages to the user.
- File:** flval1 (Supplier Item File)
- Fields:** Various fields related to item attributes.
- Condition:** Error flags are set based on the validation results, which affect the flow of the program.

Subprogram Calls Affecting Logic

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

1. FW113R (Item Validation Program)

- Trigger:** Called during input validation to ensure the item details are correct.
- Logic:** Validates the item number and associated details against the database.
- Impact:** This call acts as a **critical validation step** that determines if the item can be processed further.

2. VA510R (Supplier Query Program)

- Trigger:** Called when the user requests additional information about the unit of measure.
- Logic:** Retrieves detailed information about the unit of measure for the item.
- Impact:** Provides necessary data to the user, enhancing the user experience.

3. FÅ705R (VAT Factor Retrieval Program)

- Trigger:** Called during initialization to retrieve the current VAT factors.

- Logic:** Fetches VAT rates based on the current firm and date.
- Impact:** Ensures that sales prices are calculated accurately based on the latest tax regulations.