

FW112R.MBR

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Business Logic for FW112R

This document outlines the business rules that govern the maintenance of supplier items in the ERP system, based on an analysis of the RPG program FW112R. The primary focus is on the validation and updating of item details, including supplier information and pricing.

The core logic for maintaining supplier items is contained within the main program logic and several subroutines that handle specific tasks such as input validation, data retrieval, and updating records.

Order Status and Header Rules

FW112R: flval1, frlevl1, fvvarl5, flvalu

1. Retrieve Supplier Item

- Logic:** The program attempts to retrieve the supplier item details based on the keys provided. If the item is not found, it exits the process.
- File:** flval1 (Supplier Item File)
- Field:** flval1_key
- Condition:** The process will not proceed if the supplier item is not found (*in90 is on).

2. Initialize Screen

- Logic:** Initializes the screen with the current values of the supplier item.
- File:** flval1 (Supplier Item File)
- Field:** Various fields are set from the supplier item record.
- Condition:** This step is executed unconditionally after a successful item retrieval.

Configuration and Authorization Rules

1. Input Validation

- Logic:** Validates the input fields for the supplier item. If any validation fails, it sets an error flag and returns to the screen.
- Files:**
 - flval1 (Supplier Item File)
- Fields:**
 - c2lvar (Item Number)
 - c2tek1 (Description 1)
 - c2enhe (Unit)
 - c2inpr (Purchase Price)
 - c2sapr (Sales Price)
- Condition:** The validation will trigger if any field does not meet the required criteria.

2. Display Status Codes

- Logic:** Calls another program to display status codes when a specific function key is pressed.
- File:** Not applicable (calls external program).

- Condition:** Triggered when the function key for displaying status codes is pressed.
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Financial and Transactional Rules

1. Update Supplier Item

- Logic:** Updates the supplier item record with the new values after validation.
- File:** flvalu (Supplier Item Update File)
- Fields:**
 - fwlvar (Item Number)
 - fwtek1 (Description 1)
 - fweann (EAN Code)
 - fwvgrp (Item Group)
- Condition:** The update occurs only if the item is found (*in90 is off).

2. Calculate Profit Margin

- Logic:** Calculates the profit margin based on the sales price and purchase price.
 - File:** Not applicable (calculation logic).
 - Condition:** This calculation is performed as part of the item update process.
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Special Conditions (Program-Specific)

1. Error Handling (FW112R)

- Logic:** If any errors are detected during processing, the program sets an error flag and returns to the screen without making updates.
- File:** Not applicable.
- Field:** b_feil
- Condition:** Triggered when validation fails or when an error occurs during processing.

2. Retrieve Item Prices (FW112R)

- Logic:** Calls an external program to retrieve existing prices for the item if it is found in the database.
 - File:** Not applicable (calls external program).
 - Fields:** Various fields related to pricing are populated.
 - Condition:** This retrieval occurs only if the item exists in the database.
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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. FW113R (Item Validation Program)

- Trigger:** Called during input validation.
- Logic:** Validates the supplier item based on various parameters.
- Impact:** If validation fails, it sets an error flag and prevents further processing.

2. VA510R (Query Program)

- Trigger:** Called when the user requests to view additional information about the item.
- Logic:** Retrieves detailed information about the item based on the unit.
- Impact:** Provides additional context to the user without altering the main item record.

3. FÅ705R (Tax Factor Retrieval Program)

- Trigger:** Called during program initialization to retrieve tax factors.
- Logic:** Retrieves the current tax rates applicable to the supplier item.
- Impact:** Ensures that the correct tax rates are applied during pricing calculations.

This documentation provides a comprehensive overview of the business logic encapsulated within the FW112R program, detailing how supplier items are maintained and validated within the ERP system.