

FR100R.MBR

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Business Logic for Rabattmatrise Maintenance

This document outlines the business rules that govern the maintenance of the discount matrix (Rabattmatrise) based on an analysis of the RPG program FR100R. The primary focus is on the logic for managing discount levels, including the addition, update, and deletion of discount records. The core logic for discount matrix maintenance is contained within various subroutines in FR100R, which processes records related to discounts based on multiple criteria such as customer categories, product groups, and discount levels.

Order Status and Header Rules

Rabattmatrise: frablr, frablu, frabl1, frabld, frabl2, frabl3, frabl4, frabl5, frabl6, frabl7, frabl8, frabl9, frabla, frablb, frablc

1. Check for Existing Discount Record

- Logic:** The program checks if a discount record already exists for the given criteria before allowing updates or deletions.
- File:** frablr (Discount matrix record)
- Field:** frablr_prgr, frablr_rkat, frablr_kkat, frablr_kund, frablr_kpro, frablr_ogrp, frablr_hgrp, frablr_ugrp, frablr_ldor, frablr_modn, frablr_vare, frablr_enhe, frablr_lety
- Condition:** The process will not proceed if the record is found to exist (*in90 = *off).

2. Validate Input Data

- Logic:** The program validates the input data for discount levels, ensuring that at least one of the required fields is filled.
- File:** frablr
- Field:** w_rkat, w_kkat, w_kund
- Condition:** The process will raise an error if both w_rkat and w_kkat are zero or if both are provided without a customer reference (w_kund).

Configuration and Authorization Rules

1. Function Key Authorization Check

- Logic:** The program checks if the user has permission to perform certain actions based on function keys.
- Files:**
 - frablr
 - frablu
- Fields:**
 - w_adv (Function key)
- Condition:** The program will call the authorization check subroutine and will not proceed if the status is not 'Ok'.

2. Filter Application

- Logic:** The program applies filters to the displayed records based on user input.
- File:** frablr
- Field:** b2prgr, b2rkat, b2kkat, b2kund, b2kpro, b2ogrp, b2hgrp, b2ugrp, b2ldor, b2modn, b2vare, b2enhe, b2lety
- Condition:** The filter is applied if the corresponding input flag is set (*inka).

Financial and Transactional Rules

1. Discount Calculation

- Logic:** The program calculates the applicable discount based on various criteria including product group, customer group, and discount type.
- File:** frablr
- Fields:**
 - frablu_prgr
 - frablu_rkat
- Condition:** The calculation is triggered when the user inputs relevant discount criteria.

2. Update Discount Record

- Logic:** The program updates the discount record based on user input and validation checks.
- File:** frablur
- Condition:** The record is updated only if the validation checks pass and the record is found.

Special Conditions (Program-Specific)

1. Excel Import for Discount Matrix

- Logic:** The program allows for the import of discount data from Excel, updating the discount matrix accordingly.
- File:** frablr
- Field:** frablu_prgr, frablu_rkat, frablu_kkat
- Condition:** The import process is initiated based on user selection of the Excel option.

2. Error Handling for Existing Records

- Logic:** If an attempt is made to create a discount record that already exists, an error message is displayed.
- File:** frablr
- Field:** frablr_kund
- Condition:** The program checks for existing records before allowing the creation of new ones.

Subprogram Calls Affecting Logic

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

1. AD005R (Authorization Check Program)

- Trigger:** Called during the initial authorization check for function keys.
- Logic:** Validates whether the user has the necessary permissions to perform the requested action.
- Impact:** This call acts as a **major logical gateway** for ensuring that only authorized users can modify discount records.

2. FR700R (Discount Calculation Program)

- Trigger:** Called during the discount calculation process.
- Logic:** Computes the applicable discounts based on the provided parameters.
- Impact:** This is a **critical step** in determining the final discount applied to transactions.

3. RK500R (Customer Lookup Program)

- Trigger:** Called when validating customer information.
- Logic:** Retrieves customer details based on the provided customer ID.
- Impact:** Ensures that the correct customer information is used in the discount calculations and validations.

This documentation provides a comprehensive overview of the business logic implemented in the FR100R program, focusing on the rules and processes that govern the maintenance of the discount matrix.