

FR100R.MBR

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Business Logic for Rabattmatrix Maintenance

This document outlines the business rules that govern the maintenance of the discount matrix (Rabattmatrix) based on an analysis of the RPG program FR100R. The primary focus is on the rules that dictate how discounts are processed, validated, and managed within the system.

The core logic for managing the discount matrix is contained within various subroutines in FR100R. The program handles the display, creation, modification, and deletion of discount records while enforcing business rules related to user permissions and discount criteria.

Order Status and Header Rules

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

1. User Access Control

- Logic:** Only certain users can modify records based on their assigned price group. Users can only copy records from their own price group.

- File:** frablr (Discount matrix records)

- Field:** frprgr (Price group)

- Condition:** The process will not allow modifications if the user does not belong to the appropriate price group.

2. Discount Validations

- Logic:** Discounts must be valid for the specified categories and must not overlap incorrectly.

- File:** frablr (Discount matrix records)

- Field:** frrkat, frkkat, frkund (Discount category, customer category, customer)

- Condition:** The process will not accept a discount if both a discount category and a customer category are specified without a valid customer.

Configuration and Authorization Rules

1. Price Group Permissions

- Logic:** Users can only copy or modify discounts within their own price groups.

- Files:**

- frablr (Discount matrix records)

- frablu (Temporary discount records)

- Fields:**

- frprgr (Price group from frablr)

- f1prgr (Current user's price group)

- Condition:** The process will block actions if the price group does not match the user's assigned group.

2. Discount Matrix Creation

- Logic:** New discount records can be created based on existing records, ensuring no duplicates exist.

- **File:** frablu (Temporary discount records)
 - **Field:** frprgr, frrkat, frkkat, frkund (Price group, discount category, customer category, customer)
 - **Condition:** The process will not allow the creation of a record if it already exists for the specified parameters.
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Financial and Transactional Rules

1. Discount Application Logic

- **Logic:** Discounts are calculated based on various criteria including time frames and conditions.
- **File:** frablR (Discount matrix records)
- **Fields:**
 - frra1f, frra1t (Discount start and end dates)
 - frrab1, frrab2 (Discount amounts)
- **Condition:** The process will apply discounts only if the current date falls within the specified range.

2. Discount Overlap Checks

- **Logic:** The system checks for overlapping discounts that could cause conflicts.
 - **File:** frablR (Discount matrix records)
 - **Condition:** The process will not allow overlapping discounts for the same customer and product.
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Special Conditions (Program-Specific)

1. Excel Import Functionality (FR100R)

- **Logic:** Discounts can be updated from an Excel file, ensuring data integrity.
- **File:** frablR (Discount matrix records)
- **Fields:** Various fields related to discount parameters.
- **Condition:** The process will validate all imported data against existing records and business rules.

2. Copy Discount Logic (FR100R)

- **Logic:** Discounts can be copied from one record to another, maintaining integrity across records.
 - **File:** frablR (Discount matrix records)
 - **Fields:** Various fields related to discount parameters.
 - **Condition:** The process will ensure that the source record exists and that the destination record does not already contain conflicting data.
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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. FR700R (Discount Calculation Program)

- **Trigger:** Called during discount calculations based on user input.
- **Logic:** This program calculates the applicable discounts based on the current parameters and conditions.
- **Impact:** This call acts as a **major logical gateway** for applying discounts effectively.

2. AD005R (Authorization Check Program)

- **Trigger:** Called to verify user permissions for specific actions.
- **Logic:** This program checks if the user has the necessary permissions to perform the requested operation.
- **Impact:** This ensures that only authorized users can modify discount records.

3. RA530R (Price Group Validation Program)

- **Trigger:** Called when validating price groups during discount creation or modification.
- **Logic:** This program checks the validity of the specified price group against the database.
- **Impact:** This ensures that discounts are only applied to valid price groups, preventing errors in discount application.

Use clear, business-friendly language. Fill in all sections with details from the code. Output only the Markdown.