

FP100R.MBR

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Business Logic for Special Pricing Maintenance

This document outlines the business rules that govern the special pricing maintenance process, based on an analysis of the RPG program FP100R. The primary focus is on the rules and logic related to handling special prices for customers and products.

The core logic for special pricing maintenance is contained within the subfile subroutine in FP100R. The program processes various records related to special prices, customer categories, and product details, allowing users to create, update, and delete special pricing entries.

Order Status and Header Rules

Special Pricing Maintenance: fprilr, fprilu, fpril1, fpril2, fpril3, fpril4, fpril5, fpril6, fpril7, fpril8, fpril9

1. Record Filtering

- Logic:** The program filters records based on various criteria such as pricing group, customer category, and product details.
- File:** fprilr (Special Pricing Records)
- Field:** fprilr_prgr
- Condition:** The process will not select a record if fprilr_prgr is not equal to a specified value or if other related fields are blank or zero.

2. Record Positioning

- Logic:** The program positions the records in the subfile based on user input and existing data.
- File:** fpril1 (Pricing Level Records)
- Field:** fpril1_kund
- Condition:** The process will position to a record if b2kund is not zero.

Configuration and Authorization Rules

1. User Input Validation

- Logic:** The program checks for completeness of user input before processing special pricing entries.
- Files:**
 - fprilr (Special Pricing Records)
 - fpril1 (Pricing Level Records)
- Fields:**
 - w_rkat (Discount Category)
 - w_kund (Customer ID)
- Condition:** The process will flag an error if w_rkat, w_kund, and other key fields are not filled out correctly.

2. Special Price Existence Check

- Logic:** The program checks if a special price already exists for the given criteria before allowing updates.

- File:** fprilr (Special Pricing Records)
 - Field:** fprilr_kund
 - Condition:** The process will not allow a new entry if a record with the same customer ID exists.
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Financial and Transactional Rules

1. Discount Calculation

- Logic:** The program calculates the final sale price after applying discounts based on the special pricing rules.
- File:** fprilr (Special Pricing Records)
- Fields:**
 - w_sapr (Sale Price)
 - w_kopr (Cost Price)
- Condition:** The calculation is performed only if w_sapr and w_kopr are not zero.

2. Price Update Logic

- Logic:** The program updates the special pricing records based on user input and calculated values.
 - File:** fprilu (Updated Special Pricing Records)
 - Condition:** The update occurs only if the record is found and the user has the necessary permissions.
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Special Conditions (Program-Specific)

1. Subfile Management (FP100R)

- Logic:** The program manages the display and interaction with subfiles for special pricing entries.
- File:** b1sfl (Subfile for Special Prices)
- Field:** b1valg
- Condition:** The subfile is updated based on user actions such as create, update, delete, or view.

2. Error Handling and Messaging (FP100R)

- Logic:** The program displays error messages when user input is invalid or when records cannot be found.
 - File:** c1msg (Message Display)
 - Fields:** c1rtxt, c1ktxt
 - Condition:** Messages are shown based on specific error conditions encountered during processing.
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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. RA530R (Retrieve Pricing Information)

- Trigger:** Called when validating pricing group or category.
- Logic:** Retrieves descriptions and details for pricing groups.
- Impact:** This call ensures that valid pricing information is available before processing.

2. RK500R (Customer Information Retrieval)

- Trigger:** Called when checking customer details.
- Logic:** Retrieves customer-related information based on the customer ID.
- Impact:** This is critical for ensuring that the special pricing is correctly associated with valid customers.

3. VP701R (Price Calculation)

- Trigger:** Called when calculating sale or cost prices.
- Logic:** Retrieves pricing details based on the product and other parameters.
- Impact:** This represents a key step in determining the final sale price after applying discounts.