

FD100R.MBR

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Business Logic for Order Line Registration

This document outlines the business rules that govern the order line registration process, based on an analysis of the RPG program FD100R. The primary focus is on the logic surrounding the registration of offers and orders, including validation, updates, and interactions with various data files.

The core logic for order line registration is contained within the registrer subroutine in FD100R. This subroutine handles the validation of order lines, updates inventory, and manages interactions with other programs for processing orders.

Order Status and Header Rules

Order Registration: FOHEL1, FODTL1, VVARL1, VOTYL1, VLTYL1, RKMEL1

1. Check for Deleted Items

• **Logic:** The program checks if any order lines contain deleted items. If found, it triggers a warning message.

• **File:** FODTL1 (Order Lines)

• **Field:** FDVARE

• **Condition:** "The process will not proceed if any line has a FDVARE that is not blank and FDLVRE is equal to 0."

2. Order Line Positioning and Subfile Creation

• **Logic:** The program positions the database and fills the subfile with order details.

• **Files:** B1SFL (Subfile for display)

• **Field:** B1LINE

• **Condition:** "If W_FCRN is not zero, it chains to the subfile; otherwise, it initializes the line number to zero."

Configuration and Authorization Rules

1. Bonus Check

• **Logic:** The program checks if the customer's purchases qualify for a bonus based on the order details.

• **Files:** RKMEL1 (Customer Bonus)

• **Fields:** RKMEL, RKMEL

• **Condition:** "The bonus is checked only if the order is not a simple text line."

2. Customer Credit Limit Check

• **Logic:** The program checks if the order total exceeds the customer's credit limit.

• **Files:** RKMEL1 (Customer Credit)

• **Field:** RKGRNS

• **Condition:** "The process will not allow the order to proceed if the total exceeds the credit limit."

Financial and Transactional Rules

1. Order Total Calculation

- **Logic:** The program calculates the total order amount, including any applicable discounts.
- **File:** FODTL1 (Order Lines)
- **Fields:** FOTOTS, FOTOTR
- **Condition:** "The order total is calculated from the sum of all line totals minus any discounts."

2. Deposit Requirement Check

- **Logic:** The program checks if a deposit is required based on the order type and total.
- **File:** SDEPL1 (Deposit)
- **Field:** SKDEP
- **Condition:** "A deposit is required if the order total is above a certain threshold."

Special Conditions (Program-Specific)

1. Handling Deleted Lines (FD100R)

- **Logic:** The program handles the deletion of order lines and updates the inventory accordingly.
- **File:** FODTL1 (Order Lines)
- **Field:** FDVARE
- **Condition:** "If a line is marked for deletion, it must be removed from the order and inventory updated."

2. Email Notification on Order Transfer (FD100R)

- **Logic:** The program sends an email notification when an order is transferred to the picking process.
- **File:** FOHEL1 (Order Header)
- **Fields:** FOFIRM, FONUMM, FOSUFF
- **Condition:** "An email is sent if the order is marked for transfer to the picking process."

Subprogram Calls Affecting Logic

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

1. FO730R (Order Update Program)

- **Trigger:** Called during the order registration process to update totals and inventory.
- **Logic:** This program recalculates the order total and updates the order header with new values.
- **Impact:** "This call acts as a major logical gateway for ensuring order integrity."

2. FD102R (Item Lookup Program)

- **Trigger:** Called to validate item details during order line registration.
- **Logic:** This program checks if the item exists and retrieves its details.
- **Impact:** "Failure to find an item results in an error, blocking the order registration."

3. AA005R (Message Display Program)

- **Trigger:** Called to display warning messages to the user.
- **Logic:** This program presents messages based on various conditions, such as deleted items or credit issues.

•Impact: "This enhances user interaction by providing immediate feedback on order status."

This documentation provides a comprehensive overview of the business logic for the order line registration process in the FD100R program. Each rule and condition is designed to ensure data integrity and compliance with business requirements.