

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 validation, processing, and updating of order lines, including handling special conditions such as deposit requirements and inventory updates.

The core logic for order line registration is contained within the registrar subroutine in FD100R. This subroutine processes user inputs for order lines, validates them, and updates various related records in the database.

Order Status and Header Rules

Order Processing: fohel1, fodtl1, vvar1, vvar4

1. Check for Deleted Items

- Logic:** The program checks if any items in the order are marked as deleted. If so, a warning message is displayed.
- File:** fodtl1 (Order Line File)
- Field:** fdvare
- Condition:** "The process will display a warning if any fdvare is not blank and fdlvre is equal to 0."

2. Order Line Number Retrieval

- Logic:** The program retrieves the last used line number for the order and increments it for new entries.
- File:** fodtl1 (Order Line File)
- Field:** fodtl1_line
- Condition:** "The line number is updated based on the last entry in the order."

Configuration and Authorization Rules

1. Bonus Eligibility Check

- Logic:** The program checks if the customer is eligible for a bonus based on their purchase history.
- Files:**
 - rkun1 (Customer File)
 - vvar1 (Item File)
- Fields:**
 - fokund (Customer ID)
 - b_bonu (Bonus Flag)
- Condition:** "The bonus check is performed if the order total exceeds a certain threshold."

2. Deposit Requirement Check

- Logic:** The program checks if a deposit is required for the order and validates the deposit amount.

- File:** sdepl1 (Deposit File)
 - Field:** skdepo
 - Condition:** "The process will not allow adding new lines if the deposit is not fully paid."
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Financial and Transactional Rules

1. Order Total Calculation

- Logic:** The program calculates the total amount for the order, including any applicable discounts and taxes.
- File:** fodtl1 (Order Line File)
- Fields:**
 - fdsums (Total Sum)
 - fdrab1, fdrab2 (Discounts)
- Condition:** "The total is recalculated whenever an order line is added or modified."

2. Inventory Update on Order Line Addition

- Logic:** When an order line is added, the inventory is updated to reflect the new order.
 - File:** hlrec (Inventory Record)
 - Condition:** "Inventory is updated unless the item is marked as a logistic item."
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Special Conditions (Program-Specific)

1. Handling Deleted Items (FD100R)

- Logic:** The program displays a warning if the order contains deleted items, preventing further processing until resolved.
- File:** fodtl1 (Order Line File)
- Field:** fdvare
- Condition:** "The warning is triggered if any fdvare is not blank and fdlvre equals 0."

2. Deposit Handling (FD100R)

- Logic:** The program checks if a deposit is required and whether it has been paid before allowing further order processing.
 - File:** sdepl1 (Deposit File)
 - Fields:** skdepo, skdepb
 - Condition:** "The process will not allow changes to the order if the deposit has not been fully paid."
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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. FO730R (Order Update Program)

- Trigger:** Called during order processing to update totals and validate entries.
- Logic:** This program recalculates order totals and checks for any discrepancies.
- Impact:** "This call acts as a **major logical gateway** for ensuring order integrity."

2. FD102R (Item Validation Program)

- Trigger:** Called when validating item entries in the order.

- Logic:** This program checks if the item exists and retrieves pricing information.

- Impact:** "This is a **critical validation step** to ensure accurate order processing."

3. AA005R (Message Display Program)

- Trigger:** Called to display warnings and messages to the user.

- Logic:** This program handles user notifications regarding errors or important information.

- Impact:** "This call ensures that users are informed of any issues during order processing."

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