

FD100R.MBR

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Business Logic for Order Line Registration

This document outlines the business rules that govern the process of registering order lines and offers in the RPG program FD100R. The primary focus is on the logic involved in handling order lines, including validation, updates, and interactions with other modules.

The core logic for order line registration is contained within various subroutines in FD100R. The program processes order lines by validating input, checking conditions for discounts and credit limits, and updating inventory and order totals accordingly.

Order Status and Header Rules

Process_Name: Order Line Registration: FOHEL1, FODTL1, VVARL1, VOTYL1, VLTP1, RKVARE

1. Check for Deleted Items

- **Logic:** If any order line contains a deleted item, a warning message is displayed to the user.
- **File:** FODTL1 (Order Line)
- **Field:** FDVARE

• **Condition:** The process will display a warning if FDVARE is not blank and FDLVRE equals 0.

2. Validate Order Type

- **Logic:** The program checks if the order type allows for certain operations, such as printing or modifying.
 - **File:** VOTYL1 (Order Type)
 - **Field:** VOTYL1_OTYP
- **Condition:** The process will not proceed if the order type does not meet the required conditions.

Configuration and Authorization Rules

1. Credit Limit Check

• **Logic:** Before processing an order, the program checks if the customer's credit limit has been exceeded.

• **Files:**

- RKVARE (Customer)
- FOHEL1 (Order Header)

• **Fields:**

- RKVARE_KRED (Credit Limit)
- FOHEL1_TOTAL (Order Total)

• **Condition:** The process will block the operation if the total exceeds the customer's credit limit.

2. Deposit Requirement Check

• **Logic:** If an order requires a deposit, the program checks if the deposit has been paid.

• **File:** SDEPL1 (Deposit)

• **Field:** SDEPL1_KUND

- **Condition:** The process will not allow further actions if the deposit is not paid.

Financial and Transactional Rules

1. Calculate Order Total

- **Logic:** The program calculates the total amount for the order based on line items and applies any discounts.

- **File:** FODTL1 (Order Line)

- **Fields:**

- FODTL1_SUMK (Line Amount)

- FODTL1_DISCOUNT (Discount)

- **Condition:** The total is updated each time a line is added or modified.

2. Update Inventory

- **Logic:** When an order line is processed, the inventory is updated accordingly.

- **File:** VVARL1 (Inventory)

- **Condition:** The inventory is updated only if the item is not marked as deleted.

Special Conditions (Program-Specific)

1. Handling of Deleted Items (FD100R)

- **Logic:** The program checks for any deleted items in the order lines and displays a warning if found.

- **File:** FODTL1 (Order Line)

- **Field:** FDVARE

- **Condition:** The warning is triggered if FDVARE is not blank and FDLVRE equals 0.

2. Order Line Creation Logic (FD100R)

- **Logic:** When a new order line is created, the program validates the item and checks for any existing lines.

- **File:** FODTL1 (Order Line)

- **Fields:**

- FDVARE (Item)

- FDLTYPE (Line Type)

- **Condition:** The process will not allow the creation of a line if the item is invalid or if it conflicts with existing lines.

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 processing to update totals and validate conditions.

- **Logic:** This program recalculates the order total and checks for any issues related to discounts or credit limits.

- **Impact:** This call acts as a **major logical gateway** for ensuring that the order is valid before finalizing.

2. FD102R (Item Validation Program)

- Trigger:** Called to validate items being added to the order.
- Logic:** This program checks if the item exists and retrieves relevant details.
- Impact:** This is a **critical validation step** that ensures only valid items are processed.

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 errors or confirmations.
- Impact:** This call enhances user experience by providing necessary feedback during the order process.

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This documentation serves as a comprehensive overview of the business logic implemented in the FD100R program for order line registration, detailing the rules, conditions, and interactions that govern the process.