

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 related to order line management, including updates, validations, and interactions with inventory and customer data. The core logic for order line registration is contained within various subroutines within FD100R. The program processes order lines by checking conditions, updating inventory, and managing customer interactions.

Order Status and Header Rules

Order Line Registration: fodtl1, fohel1, vvarl1, votyl1, vltyl1

1. Check for Deleted Items

- Logic:** The program checks if the order contains deleted items. If so, it displays a warning message to the user.
- File:** fodtl1 (Order Line)
- Field:** fdvare
- Condition:** The process will display a warning if any order line has a fdvare that is not blank and fdlvre equals 0.

2. Retrieve Order Information

- Logic:** The program retrieves order details and populates the subfile with relevant data.
- File:** fohel1 (Order Header)
- Field:** fotots, fototr
- Condition:** The program will only proceed if the order total (fotots) is not zero.

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:**
 - rkunl1 (Customer)
 - vvarl1 (Item)
- Fields:**
 - fokund (Customer Number)
 - b_bonu (Bonus Flag)
- Condition:** The program will set the b_bonu flag if the customer qualifies for a bonus.

2. Credit Limit Check

- Logic:** The program checks if the order exceeds the customer's credit limit and displays a warning if it does.
- File:** rkunl1 (Customer)

- Field:** rkgrns (Credit Limit)

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

Financial and Transactional Rules

1. Inventory Update on Order Line Addition

- Logic:** When adding an order line, the program updates the inventory to reflect the new quantities.

- File:** hlrec (Inventory Record)

- Fields:**

- hlvare (Item Number)

- hlanta (Quantity)

- Condition:** The inventory will be updated only if the order line is successfully added.

2. Deposit Requirement Check

- Logic:** The program checks if a deposit is required based on the order type and customer agreement.

- File:** sdepl1 (Deposit)

- Condition:** The program will prompt for a deposit if the order type requires it and the total amount exceeds a specified threshold.

Special Conditions (Program-Specific)

1. Warning for Orders with Missing VAT

- Logic:** If an order contains lines without VAT, the program will display a warning message.

- File:** fodtl1 (Order Line)

- Field:** fdomva (VAT Code)

- Condition:** The warning is triggered if any line has a VAT code that is blank or equals zero.

2. Handling of Special Discounts

- Logic:** The program checks if any special discounts apply based on customer agreements and order conditions.

- File:** votyl1 (Order Type)

- Fields:** vaoakk (Order Type)

- Condition:** The program will apply special discount logic if the order type qualifies.

Subprogram Calls Affecting Logic

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

1. FO730R (Order Total Calculation)

- Trigger:** Called during order updates to recalculate totals.

- Logic:** This program recalculates the order totals based on the current order lines and any applicable discounts.

- Impact:** Ensures that the order totals are accurate before final processing.

2. FD120R (Item Registration)

- Trigger:** Called when registering a new item in the order line.

- Logic:** This program handles the registration of items and updates inventory accordingly.

- Impact:** Directly affects inventory levels and order processing.

3. AA005R (Display Message)

- Trigger:** Called to display warning messages to the user.

- Logic:** This program is used to communicate important information or errors to the user.

- Impact:** Enhances user experience by providing feedback on actions taken within the program.

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This documentation provides a comprehensive overview of the business logic implemented in the FD100R program for order line registration. It highlights the key rules and conditions that govern the processing of orders, ensuring that all necessary checks and updates are performed correctly.