

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 for managing order lines, including validation, updates, and interactions with other modules.

The core logic for order line registration is contained within the registrar subroutine in FD100R.

This subroutine processes order lines, checks for various conditions, and updates related records accordingly.

Order Status and Header Rules

Order Line Registration: fodtl1, fohel1, vvarl1, vvarl4

1. Check for Deleted Items

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

2. Retrieve Order Information

- Logic:** The program retrieves relevant order details from the order header and populates the display fields.
- File:** fohel1 (Order Header File)
- Field:** footyp, fonavn, foadr1, fosted
- Condition:** The process will populate fields with values from the order header if the order exists.

Configuration and Authorization Rules

1. Bonus Eligibility Check

- Logic:** The program checks if the customer is eligible for a bonus based on their purchases.
- Files:**
 - rkunl1 (Customer File)
 - votyl1 (Order Type File)
- Fields:**
 - fokund (Customer ID)
 - footyp (Order Type)
- Condition:** The process will check bonus eligibility if the order type allows for bonuses.

2. Credit Limit Check

- Logic:** The program checks if the total order amount exceeds the customer's credit limit.
- File:** rkunl1 (Customer File)
- Field:** rkgrns (Credit Limit)

- Condition:** The process will not allow order completion if the total exceeds the credit limit.
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Financial and Transactional Rules

1. Deposit Requirement Check

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

- File:** sdepl1 (Deposit File)

- Fields:**

- sdepl1_numm (Order Number)

- sdepl1_kund (Customer ID)

- Condition:** The process will require a deposit if the order type specifies it.

2. Order Total Calculation

- Logic:** The program calculates the total order amount, including any applicable discounts and taxes.

- File:** fodtl1 (Order Line File)

- Condition:** The process will calculate totals based on the sum of all line items.
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Special Conditions (Program-Specific)

1. Handling Deleted Lines (FD100R)

- Logic:** The program checks for any deleted lines in the order and processes them accordingly.

- File:** fodtl1 (Order Line File)

- Field:** fdvare

- Condition:** The process will display a warning if any line is marked as deleted.

2. Order Line Validation (FD100R)

- Logic:** The program validates each order line before processing it, ensuring that all required fields are filled.

- File:** vvarl1 (Item File)

- Fields:** vvarl1_vare, vvarl1_ltyp

- Condition:** The process will not allow registration of a line if the item type or number is invalid.
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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 the order processing to update totals and statuses.

- Logic:** This program recalculates the order total and updates the order header.

- Impact:** This call acts as a **major logical gateway** for ensuring that the order reflects the latest calculations.

2. FD120R (Item Registration Program)

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

- Logic:** This program handles the registration of item details and updates inventory.

- Impact:** This is a **critical step** in managing inventory and ensuring accurate order fulfillment.

3. AA005R (Message Display Program)

- Trigger:** Called to display warning messages to the user.
 - Logic:** This program presents alerts regarding the status of the order or issues encountered.
 - Impact:** This enhances user experience by providing immediate feedback on actions taken.
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This documentation provides a comprehensive overview of the business logic implemented in the FD100R program for order line registration, focusing on the key rules and processes that govern the workflow.