

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 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, checks for conditions such as stock availability, customer credit limits, and applies business rules for discounts and deposits.

Order Status and Header Rules

Order Registration: FOHEL1, FODTL1, VVARL1, VOTYL1

1. Check for Deleted Items

- Logic:** The program checks if any order lines contain deleted items and displays a warning if found.
- 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 is equal to 0."

2. Retrieve Order Information

- Logic:** The program retrieves details from the order header and populates the necessary fields for processing.
- File:** FOHEL1 (Order Header)
- Field:** FONUMM, FOSUFF
- Condition:** "The order information is fetched if the order exists."

Configuration and Authorization Rules

1. Customer Credit Check

- Logic:** Before processing an order, the program checks if the customer's credit limit has been exceeded.
- Files:**
 - RKUML1 (Customer Master)
 - FOHEL1 (Order Header)
- Fields:**
 - RKGRNS (Credit Limit)
 - FOTOTS (Total Order Amount)
- Condition:** "The order will not proceed if the total order amount 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:** SKDEPO
 - Condition:** "The process will not allow adding new lines if the deposit has not been paid."
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Financial and Transactional Rules

1. Bonus Calculation

- Logic:** The program checks if the customer's purchases qualify for a bonus and calculates the bonus accordingly.
- File:** RKUML1 (Customer Master)
- Fields:**
 - RKBONUS (Bonus Eligibility)
 - FOTOTS (Total Order Amount)
- Condition:** "The bonus will be calculated if the customer is eligible and the total order amount is greater than zero."

2. Order Total Calculation

- Logic:** The program calculates the total amount for the order, including any discounts and taxes.
 - File:** FODTL1 (Order Line)
 - Condition:** "The total will be updated based on the sum of all order lines."
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Special Conditions (Program-Specific)

1. Handling of Deleted Items (FD100R)

- Logic:** The program displays a message if the order contains deleted items, prompting the user for confirmation.
- File:** FODTL1 (Order Line)
- Field:** FDVARE
- Condition:** "A warning message is shown if any line has a deleted item."

2. Order Line Update Logic (FD100R)

- Logic:** The program updates the order line details and checks for stock availability before finalizing the order.
 - File:** FODTL1 (Order Line)
 - Fields:** FDVARE, FDANTA
 - Condition:** "The order line will be updated only if the stock is available and the line passes validation checks."
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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 check conditions.
- Logic:** This program recalculates the order totals and checks for any conditions that may affect the order.
- Impact:** "This call acts as a **major logical gateway** for ensuring the order is processed correctly."

2. FD120R (Item Registration Program)

- Trigger:** Called when registering a new item line in the order.
- Logic:** This program handles the registration of items and checks stock availability.
- Impact:** "This is a **critical step** in ensuring that the correct items are added to the order."

3. AA005R (Message Display Program)

- Trigger:** Called to display warning messages to the user.
- Logic:** This program presents alerts regarding issues such as credit limits or deleted items.
- Impact:** "This call is essential for user feedback and operational integrity."

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This documentation provides a comprehensive overview of the business logic implemented in the FD100R program, focusing on order line registration and the associated rules and processes.