

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 validation, updates, and interactions with other modules.

The core logic for order line registration is contained within various subroutines in FD100R. The program handles the registration of offers and orders, including checks for inventory updates, customer credit limits, and the management of special conditions such as deposit requirements.

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 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 equals 0."

2. Validate Line Type

- Logic:** The program ensures that a line type is provided when registering an order line.
- File:** vltyl1 (Line Type)
- Field:** vltyl1_ltyp
- Condition:** "The process will not allow registration if the line type is not found in the vltyl1 file."

Configuration and Authorization Rules

1. Customer Credit Limit Check

- Logic:** The program checks if the customer's credit limit is exceeded before allowing order processing.
- Files:**
 - rkunl1 (Customer)
 - fohel1 (Order Header)
- Fields:**
 - rkunl1_kund (Customer Number)
 - fotots (Total Order Amount)
- Condition:** "The process will block the order if the total order amount exceeds the customer's credit limit."

2. Deposit Requirement Check

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

- File:** sdepl1 (Deposit)
 - Field:** skdepo
 - Condition:** "The process will require a deposit if the customer has a deposit agreement and the order type allows it."
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Financial and Transactional Rules

1. Inventory Update on Order Line Registration

- Logic:** Updates inventory quantities based on the order line details.
- File:** hlrec (Inventory Record)
- Fields:**
 - hlvare (Item Number)
 - hlanta (Quantity)
- Condition:** "The inventory will be updated if the order line is registered successfully."

2. Bonus Calculation for Customer Purchases

- Logic:** The program calculates bonuses based on the customer's purchases and updates the order accordingly.
 - File:** rkunl1 (Customer)
 - Condition:** "The process will calculate and apply bonuses if the customer is eligible."
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Special Conditions (Program-Specific)

1. Handling of Deleted Items (FD100R)

- Logic:** The program provides a mechanism to handle items that have been marked as deleted.
- File:** fodtl1 (Order Line)
- Field:** fdvare
- Condition:** "The program will show a warning if an order line contains a deleted item."

2. Order Line Registration with Special Pricing (FD100R)

- Logic:** The program allows for special pricing conditions based on customer agreements.
 - File:** vvarl1 (Item)
 - Fields:** vvarl1_vare, vvarl1_lage
 - Condition:** "The program will apply special pricing if the customer is part of a pricing agreement."
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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 line registration to update order totals and statuses.
- Logic:** This program recalculates the order totals and updates the order header with the new values.
- Impact:** "This call acts as a **major logical gateway** for ensuring that order totals are accurate."

2. FD120R (Item Registration Program)

- Trigger:** Called when registering a new item in the order line.
- Logic:** This program handles the logic for item registration and pricing calculations.

- Impact:** "This is a **critical step** in ensuring that the correct items are registered with the appropriate pricing."

3. AA005R (Message Display Program)

- Trigger:** Called to display messages to the user regarding errors or warnings.

- Logic:** This program displays messages based on the conditions checked in the main program.

- Impact:** "This program facilitates user interaction by providing feedback on the order registration process."

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This documentation serves as a reference for understanding the business logic implemented in the FD100R program, detailing the rules and processes involved in order line registration.