

# 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 by checking conditions, updating inventory, and managing user interactions through display files.

## Order Status and Header Rules

**Order Line Registration: fodtl1, fohel1**

### 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 File)
- Field:** fdvare
- Condition:** "The process will display a warning if any fdvare is not blank and fdlvre is equal to 0."

### 2. Retrieve Order Information

- Logic:** The program retrieves information from the order header and populates the necessary fields for processing.
- File:** fohel1 (Order Header File)
- Field:** footyp
- Condition:** "The order type must be valid for processing."

## Configuration and Authorization Rules

### 1. Authorization for Function Keys

- Logic:** The program checks if the user has permission to access certain function keys based on their role.
- Files:**
  - fusrl1 (User Role File)
- Fields:**
  - fusrl1\_user (User ID)
- Condition:** "The user must have the appropriate permissions to access function keys."

### 2. Deposit Requirement Check

- Logic:** The program checks if a deposit is required based on the order type and customer settings.
- Files:**
  - sdepl1 (Deposit File)
- Fields:**

- sdepl1\_numm (Order Number)
  - Condition:** "A deposit is required if the order total exceeds a certain threshold."
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## Financial and Transactional Rules

### 1. Order Total Calculation

- Logic:** The program calculates the total amount for the order by summing the line totals and applying any discounts.
- File:** fodtl1 (Order Line File)
- Fields:**
  - fdsums (Total Amount)
  - fdsumr (Discount Amount)
- Condition:** "The total must be calculated before finalizing the order."

### 2. Credit Limit Check

- Logic:** The program checks if the customer's credit limit has been exceeded before allowing further processing.
  - File:** rkunl1 (Customer File)
  - Condition:** "The process will block further actions if the credit limit is exceeded."
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## Special Conditions (Program-Specific)

### 1. Deposit Handling (FD100R)

- Logic:** The program manages deposit requirements and checks if the deposit has been paid before allowing changes to the order.
- File:** sdepl1 (Deposit File)
- Field:** sdepl1\_kund (Customer ID)
- Condition:** "The process will not allow changes if a deposit has been paid."

### 2. Order Line Registration Logic (FD100R)

- Logic:** The program registers new order lines and validates the input data before saving to the database.
  - File:** fodtl1 (Order Line File)
  - Fields:** fdvare, fdltyp, fdanta
  - Condition:** "The process will check for valid item types and quantities before registration."
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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 processing to update totals and validate the order.
- Logic:** Updates the order totals based on the line items and checks for any discrepancies.
- Impact:** "This call acts as a **major logical gateway** for ensuring order integrity."

### 2. FD120R (Item Registration Program)

- Trigger:** Called when a new item is added to the order.
- Logic:** Handles the registration of items and checks for inventory availability.

- Impact:** "This is a **critical step** in the order line registration process."

### 3. AA005R (Message Display Program)

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

- Logic:** Displays alerts based on various conditions, such as invalid input or system messages.

- Impact:** "This program enhances user interaction by providing 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. It outlines the key rules, conditions, and interactions necessary for maintaining the integrity of the order processing system.