

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 rules and logic associated with managing order lines, including validations, updates, and interactions with inventory and customer data.

The core logic for order line registration is contained within various subroutines in FD100R. The program processes order lines by reading and updating records, validating input, and managing interactions with other modules, such as inventory and customer management.

Order Line and Status Rules

Order Line Registration: fodtl1, vvarl1, vvarl4, fohel1

1. Check for Deleted Items

•Logic: The program checks if any order lines contain deleted items and sets a flag to indicate this.

•File: fodtl1 (Order Line)

•Field: fdvare

•Condition: "The process will display a warning if any order line contains a deleted item."

2. Validate Line Type and Item

•Logic: The program validates that either a line type or an item is provided, but not both simultaneously.

•File: vvarl1 (Item)

•Field: vvarl1_vare

•Condition: "The process will not allow both a line type and an item to be specified at the same time."

Configuration and Authorization Rules

1. Customer Credit Check

•Logic: The program checks if the customer's credit limit is exceeded before allowing further actions.

•Files:

•rkunl1 (Customer)

•fohel1 (Order Header)

•Fields:

•rkunl1_kund (Customer Number)

•fotots (Total Order Amount)

•Condition: "The process will block further actions if the customer's credit limit is exceeded."

2. Deposit Requirement Check

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

- **File:** sdepl1 (Deposit)
 - **Field:** sdepl1_kund
 - **Condition:** "The process will not allow changes to the order if a deposit is required and has not been paid."
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Financial and Transactional Rules

1. Total Calculation

- **Logic:** The program calculates the total order amount, including any discounts or taxes.
- **File:** fodtl1 (Order Line)
- **Fields:**
 - fdsums (Sum of Order Lines)
 - fotots (Total Order Amount)
- **Condition:** "The process will update the total order amount based on the sum of individual line amounts."

2. Bonus Calculation

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

1. Order Line Deletion Logic

- **Logic:** The program handles the deletion of order lines, ensuring that any related inventory updates are processed.
- **File:** fodtl1 (Order Line)
- **Field:** fodtl1_line
- **Condition:** "The process will delete an order line and update the inventory if the line is marked for deletion."

2. Email Notification for Order Processing

- **Logic:** The program sends email notifications when orders are processed or require attention.
 - **File:** fohel1 (Order Header)
 - **Fields:** w_firm, fonumm, fosuff
 - **Condition:** "The process will send an email notification if the order is marked for processing."
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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:** Updates the order totals and checks for any necessary adjustments based on line items.
- **Impact:** This call acts as a **major logical gateway**, ensuring that all order data is consistent and accurate.

2. FD102R (Item Lookup Program)

•**Trigger:** Called to validate and retrieve item details based on the provided item number.

•**Logic:** Retrieves item information and checks for availability.

•**Impact:** This is a **critical validation step** that ensures only valid items are processed.

3. AA005R (Message Display Program)

•**Trigger:** Called to display error or warning messages to the user.

•**Logic:** Displays messages based on various conditions, such as credit issues or validation failures.

•**Impact:** This program is essential for user feedback and interaction, guiding users through the order process.

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This documentation provides a comprehensive overview of the business logic implemented in the FD100R program for order line registration. Each rule and condition is designed to ensure data integrity, compliance with business processes, and a smooth user experience.