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 various data structures.

The core logic for order line registration is contained within the registrer subroutine in FD100R. This subroutine handles the registration of order lines, including validation checks for existing items, updating inventory, and managing deposit requirements.

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Order Status and Header Rules

Order Management: FOHEL1, FODTL1, VVARL1, VOTYL1

1. Check for Deleted Items

•**Logic:** The program checks if any order lines contain deleted items. If found, a warning message is displayed.

•**File:** FODTL1 (Order Line File)

•**Field:** FDVARE

•**Condition:** The process will display a warning if any FDVARE is not blank and FDLVRE equals 0.

2. Retrieve Order Details

•**Logic:** The program retrieves details from the order header and populates the necessary fields for processing.

•**File:** FOHEL1 (Order Header File)

•**Field:** FONUMM, FOSUFF

•**Condition:** The order details are fetched based on the current order number and suffix.

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Configuration and Authorization Rules

1. Bonus Eligibility Check

•**Logic:** The program checks if the customer is eligible for a bonus based on their purchase history.

•**Files:**

•RKUML1 (Customer File)

•VOTYL1 (Order Type File)

•**Fields:**

•RKKUND (Customer ID from RKUML1)

•FOOTYP (Order Type from VOTYL1)

•**Condition:** The check is performed if the order type allows for bonus calculations.

2. Credit Limit Check

•**Logic:** The program checks if the total order amount exceeds the customer's credit limit.

•**File:** RKUML1 (Customer File)

•**Field:** RKGRNS (Credit Limit)

•**Condition:** The process will block further actions if the total order amount 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 total amount.

•**File:** SDEPL1 (Deposit File)

•**Fields:**

•SDEPL1_NUMM (Order Number)

•SDEPL1_KUND (Customer ID)

•**Condition:** A deposit must be calculated and confirmed if the order total exceeds a certain threshold.

2. Inventory Update

•**Logic:** The program updates the inventory based on the items in the order line.

•**File:** VVARL1 (Inventory File)

•**Condition:** Inventory is updated only if the item is not marked as deleted.

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Special Conditions (Program-Specific)

1. Handling Deleted Items (FD100R)

•**Logic:** The program displays a warning if the order contains deleted items, prompting the user for confirmation before proceeding.

•**File:** FODTL1 (Order Line File)

•**Field:** FDVARE

•**Condition:** The warning is triggered if any order line references a deleted item.

2. Order Line Registration Logic (FD100R)

•**Logic:** The program registers a new order line, validating the item and ensuring it meets all business rules before adding it to the order.

•**File:** FODTL1 (Order Line File)

•**Fields:** Various fields related to the order line, including FDVARE, FDANTA, and FDLTYPE.

•**Condition:** The registration process is contingent upon successful validation of the item and compliance with all applicable rules.

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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. FD102R (Item Lookup Program)

•**Trigger:** Called during the item identification process.

•**Logic:** This program retrieves item details based on the item number provided.

•**Impact:** It ensures that the correct item information is used for order line registration.

2. FO730R (Order Total Calculation Program)

•**Trigger:** Called to recalculate the total order amount after modifications.

•**Logic:** This program updates the order totals based on the current order lines.

•**Impact:** It affects the overall order processing and ensures that the financials are accurate.

3. AA005R (Message Display Program)

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

•**Logic:** This program handles user notifications for various conditions, such as errors or confirmations.

•**Impact:** It enhances user interaction by providing necessary feedback during the order registration process.

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This documentation provides a comprehensive overview of the business logic for the order line registration process as implemented in the FD100R program. It outlines the key rules, conditions, and interactions that govern how orders are processed and managed within the system.