FD100R.MBR

Path: NXCLOUD/rpgsrc/FD100R.MBR **Generated**: 2026-01-08 11:56:26 **Processing Time**: 12557ms

–

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 how orders and their associated lines are processed, including validations, updates, and interactions with other modules.

The core logic for order line registration is contained within the registrer subroutine in FD100R. The program processes order lines, validates input, updates inventory, and manages various business rules related to orders.

–

Order Status and Header Rules

Order Registration: fohel1, fodtl1, vvarl1, vvarl4

1. Check for Deleted Items

•**Logic:** The program checks if any items in the order are marked as deleted. If so, it displays a warning message to the user.

•**File:** fodtl1 (Order Line)

•**Field:** fdvare

•**Condition:** The process will trigger a warning if any fdvare is not blank and fdlvre is equal to 0.

2. Retrieve Order Information

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

•**File:** fohel1 (Order Header)

•**Field:** Various fields including footyp, fonavn, etc.

•**Condition:** This occurs during the initialization of the order registration process.

–

Configuration and Authorization Rules

1. Check Customer Credit Limit

•**Logic:** The program checks if the customer's credit limit has been exceeded. If it has, it prevents further processing of the order.

•**Files:**

•rkunl1 (Customer)

•fohel1 (Order Header)

•**Fields:**

•rkgrns (Credit Limit)

•fotots (Total Order Amount)

•**Condition:** The process will block further actions if fotots exceeds rkgrns.

2. Validate Order Type

•**Logic:** The program ensures that the order type is valid for the operations being performed.

•**File:** votyl1 (Order Type)

•**Field:** footyp
•**Condition:** The program will not allow processing if the order type does not meet specific criteria.

Financial and Transactional Rules

1. Calculate Order Total

•**Logic:** The program calculates the total amount of the order based on the line items and applies any applicable discounts.

•**File:** fodtl1 (Order Line)

•**Fields:**

•fdsums (Subtotal)

•fdrab1, fdrab2 (Discounts)

•**Condition:** The calculation is performed whenever items are added or modified in the order.

2. Deposit Requirement Check

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

•**File:** sdepl1 (Deposit)

•**Condition:** If the order type requires a deposit, the program verifies if the deposit has been paid before allowing further processing.

Special Conditions (Program-Specific)

1. Order Line Deletion Logic (FD100R)

•**Logic:** The program handles the deletion of order lines, ensuring that all related data is updated accordingly.

•**File:** fodtl1 (Order Line)

•**Field:** fdline

•**Condition:** The deletion process is initiated when the user confirms the action, and it must check for any linked orders before proceeding.

2. Email Notification Logic (FD100R)

•**Logic:** The program sends email notifications to specified recipients when certain order conditions are met.

•**File:** fohel1 (Order Header)

•**Fields:** Various email fields are populated based on the order details.

•**Condition:** The email is sent when the order is marked for delivery or when specific actions are taken.

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 registration process to update order totals and related fields.

•**Logic:** This program recalculates totals and applies any necessary adjustments based on the current order state.

•**Impact:** This call acts as a **major logical gateway** for ensuring that all order calculations are accurate.

2. FD120R (Item Registration Program)

•**Trigger:** Called when a new item is added to the order.

•**Logic:** This program handles the registration of items, including validations against inventory.

•**Impact:** Ensures that all items are correctly processed and that inventory levels are updated accordingly.

3. AA005R (Alert Program)

•**Trigger:** Called to display alert messages to users regarding various conditions (e.g., credit limits, item deletions).

•**Logic:** Displays messages based on the current state of the order and user actions.

•**Impact:** Provides essential feedback to users, enhancing the user experience and ensuring compliance with business rules.

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