

EK100R.MBR

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Business Logic for Customer Bonus Maintenance

This document outlines the business rules that govern the customer bonus maintenance process, based on an analysis of the RPG program EK100R. The primary focus is on the logic related to managing customer bonuses, including updating, calculating, and displaying bonus information. The core logic for managing customer bonuses is contained within the various subroutines in EK100R. The program allows for the selection of customers from a list and provides functionality for bulk updates, bonus calculations, and generating customer letters.

Customer Selection and Bonus Rules

Customer Bonus Maintenance: rkunlr, rkunl1, rkunl2, ekboi1, ekbtir, ekbtu, ekbei1, ekboiu

1. Select Eligible Customers

- Logic:** The program selects customers eligible for bonuses based on specific criteria (e.g., customer categories 310/314).
- File:** rkunlr (Customer Master File)
- Field:** rkunl1_kund
- Condition:** The process will not select a record if the customer is not eligible for bonuses.

2. Bulk Update Bonus Parameters

- Logic:** Allows for mass updates of bonus parameters for selected customers.
- File:** ekboi1 (Bonus Information File)
- Field:** ekboi1_bkun
- Condition:** The update occurs only if the user confirms the action.

Configuration and Authorization Rules

1. Authorization for Bonus Calculation

- Logic:** Ensures that only authorized users can initiate bonus calculations.
- Files:**
 - ekboi1 (Bonus Information File)
 - ekbtir (Bonus Type Register)
- Fields:**
 - ekboi1_bkun (from ekboi1)
 - ekbtir_tbku (from ekbtir)
- Condition:** The calculation will only proceed if the user has the necessary permissions.

2. Customer Letter Generation

- Logic:** Generates letters for customers based on their bonus status.
- File:** ekbtir (Bonus Type Register)
- Field:** ekbtir_tbku
- Condition:** Letters are generated only for customers who have a valid bonus agreement.

Financial and Transactional Rules

1. Bonus Calculation for Individual Customers

- Logic:** Calculates the annual bonus for a specific customer based on predefined criteria.
- File:** ekboi1 (Bonus Information File)
- Fields:**
 - b1kund (Customer ID)
 - b1bonu (Bonus Amount)
- Condition:** The calculation is performed only if the customer has an active bonus agreement.

2. Mass Bonus Calculation

- Logic:** Initiates the calculation of bonuses for all customers.
 - File:** ekboi1 (Bonus Information File)
 - Condition:** This action is triggered by the user and processes all eligible customers.
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Special Conditions (Program-Specific)

1. Handling Bonus Types (EK100R)

- Logic:** The program accommodates multiple bonus types and ensures correct processing based on the selected type.
- File:** ekbtir (Bonus Type Register)
- Field:** ekbtir_tbku
- Condition:** The program checks for the selected bonus type before proceeding with calculations.
Note: This logic has been updated to handle new bonus types.

2. Customer Agreement Check (EK100R)

- Logic:** Verifies if the selected customer has a valid bonus agreement before processing any bonus-related actions.
 - File:** ekbtir (Bonus Type Register)
 - Fields:** ekbtir_tbku (Bonus Type ID)
 - Condition:** The process will not proceed if the customer does not have an 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. EK120R (Bonus Parameter Update)

- Trigger:** Called when the user selects to update bonus parameters.
- Logic:** Updates the bonus parameters for the selected customer.
- Impact:** This call acts as a **critical update function** that modifies customer bonus data.

2. EK104R (Bonus Assignment)

- Trigger:** Called when the user selects to assign a bonus to a customer.
- Logic:** Assigns a bonus based on the selected criteria.
- Impact:** This is a **key transactional step** that affects customer bonus records.

3. EK710C (Bonus Calculation Routine)

- Trigger:** Called during the bonus calculation process.

- Logic:** Executes the calculations based on the provided parameters and customer data.
- Impact:** This represents the **core calculation logic** for determining customer bonuses.

4. EK715R (Mass Bonus Calculation)

- Trigger:** Called to initiate the mass calculation of bonuses for all customers.
- Logic:** Processes the bonus calculations for the entire customer base.
- Impact:** This is a **bulk processing function** that significantly affects multiple records at once.