

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 handling of customer bonuses, including selection, updating, and calculation of bonuses for eligible customers.

The core logic for customer bonus maintenance is contained within the *inzsr subroutine in EK100R. The program processes customer records from various files, allowing for the selection and maintenance of bonus parameters, including mass updates and calculations.

Customer Selection and Bonus Eligibility Rules

Customer Bonus Maintenance: Rkunlr, Rkunl1, Rkunl2, Ekboi1, Ekbtir, Ekbeiu, Ekbei1, Ekbtu

1. Select Eligible Customers

- Logic:** The program selects customers who are eligible for bonuses based on their customer category (310/314).
- File:** Rkunlr (Customer master file)
- Field:** Rkunl1_kund
- Condition:** The process will only select records where the customer category is eligible for bonuses.

2. Mass Update of Bonus Parameters

- Logic:** Allows for mass updates of bonus parameters for selected customers.
- File:** Ekboi1 (Bonus parameters file)
- Field:** Ekboi1_bkun
- Condition:** The update will only occur if the selected customer has existing bonus parameters.

Configuration and Authorization Rules

1. Authorization for Bonus Calculation

- Logic:** The program checks if the user has authorization to calculate bonuses for customers.
- Files:**
 - Ekboi1 (Bonus parameters file)
 - Rkunlr (Customer master file)
- Fields:**
 - Ekboi1_bkun (from Ekboi1)
 - Rkunl1_kund (from Rkunlr)
- Condition:** The calculation will only proceed if the user is authorized and the customer has valid bonus parameters.

2. Customer Bonus Type Handling

- Logic:** The program handles different types of bonuses based on customer attributes.

- File:** Ekbtir (Bonus type file)
 - Field:** Ekbtir_tbku
 - Condition:** The process will check the bonus type and ensure it matches the customer's eligibility criteria.
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Financial and Transactional Rules

1. Bonus Calculation for Customers

- Logic:** Calculates the annual bonus for each customer based on defined parameters.
- File:** Ekboi1 (Bonus parameters file)
- Fields:**
 - Ekboi1_bkun (Customer ID)
 - Ekboi1_key (Bonus key)
- Condition:** The calculation will only occur if the customer has valid bonus parameters and the calculation period is valid.

2. Update Bonus Records

- Logic:** Updates the bonus records in the database after calculations.
 - File:** Ekbeiu (Bonus element file)
 - Condition:** The update will only happen if the calculation has been successfully completed.
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Special Conditions (Program-Specific)

1. Customer Letter Generation (EK100R)

- Logic:** Generates letters for customers regarding their bonus status.
- File:** Ekbtir (Bonus type file)
- Field:** Ekbtir_tbku
- Condition:** Letters are generated only for customers who have an active bonus agreement. Note: This process is dependent on the successful retrieval of customer data.

2. Mass Update Time Period Handling (EK100R)

- Logic:** Updates the time period for bonus calculations for multiple customers.
 - File:** Ekboiu (Bonus element file)
 - Fields:** Ekbeiu_ebku, Ekbeiu_erka
 - Condition:** The update will only occur if the selected customers have valid bonus agreements.
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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 Program)

- Trigger:** Called when the user selects to update bonus parameters.
- Logic:** This program handles the logic for updating customer bonus parameters.
- Impact:** This call acts as a **major logical gateway** for managing customer bonuses.

2. EK104R (Bonus Calculation Program)

- Trigger:** Called during the bonus calculation process for individual customers.
- Logic:** This program calculates the bonuses based on the parameters defined in EK100R.

- Impact:** This is a **critical step** in ensuring accurate bonus calculations.

3. EK715R (Mass Bonus Calculation Program)

- Trigger:** Called when the user opts to calculate bonuses for all customers.

- Logic:** This program processes the calculations for all eligible customers in bulk.

- Impact:** Represents the handoff to the next major business function of mass bonus processing.