

# 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 how customer bonuses are managed, updated, and calculated within the system.

The core logic for customer bonus maintenance is contained within the various subroutines in EK100R. The program allows for the selection of customers from a list, updating bonus parameters, and calculating bonuses based on defined criteria.

## Customer Selection and Bonus Rules

**Customer Bonus Maintenance:** Rkunl1, Rkunl2, Ekboi1, Ekbei1, Ekbtir

### 1. Select Eligible Customers

- Logic:** The program filters customers based on eligibility for bonuses, specifically categories 310 and 314.
- File:** Rkunl1 (Customer List)
- 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:** The program allows for mass updates to bonus parameters for selected customers.
- File:** Ekboi1 (Bonus Information)
- Field:** Ekboi1\_bkun
- Condition:** The mass update will only occur if the user confirms the action.

## Configuration and Authorization Rules

### 1. Authorization for Bonus Calculation

- Logic:** Only authorized users can initiate bonus calculations for customers.
- Files:**
  - Rkunl1 (Customer List)
  - Ekboi1 (Bonus Information)
- Fields:**
  - Rkunl1\_kund (from Rkunl1)
  - Ekboi1\_bkun (from Ekboi1)
- Condition:** The calculation will not proceed if the user lacks the necessary permissions.

### 2. Validation of Bonus Period

- Logic:** The program checks that the specified bonus period is valid before processing.
- File:** Ekboi1 (Bonus Information)
- Field:** Ekboi1\_bkun

- Condition:** The process will not continue if the bonus period is outside the acceptable range (1 to 12).

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## Financial and Transactional Rules

### 1. Bonus Calculation Logic

- Logic:** The program calculates bonuses based on predefined criteria and customer data.
- File:** Ekboi1 (Bonus Information)
- Fields:**
  - Ekboi1\_bkun (Customer ID)
  - Ekboi1\_bdat (Bonus Date)
- Condition:** The calculation will only be performed if the customer has valid bonus data.

### 2. Update Bonus Records

- Logic:** The program updates bonus records after calculations are performed.
- File:** Ekboi1 (Bonus Information)
- Condition:** The update will not occur if the calculation has not been successfully completed.

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## Special Conditions (Program-Specific)

### 1. Handling of Special Bonus Types (EK100R)

- Logic:** The program accommodates multiple bonus types and ensures proper handling during updates.
- File:** Ekboi1 (Bonus Information)
- Field:** Ekboi1\_bkun
- Condition:** The program checks for the bonus type before proceeding with updates. Note: This logic is critical to ensure correct bonus calculations.

### 2. Customer Letter Generation (EK100R)

- Logic:** The program generates letters for customers regarding their bonuses.
- File:** Ekbtir (Bonus Type Register)
- Fields:** Ekbtir\_tbku (Customer ID), Ekbtir\_bdat (Bonus Date)
- Condition:** Letters are generated only for customers with 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)

- Trigger:** Called during the mass update of bonus parameters.
- Logic:** This program handles the logic for updating bonus parameters for multiple customers.
- Impact:** This call acts as a **major logical gateway** for ensuring that updates are correctly applied.

### 2. EK104R (Bonus Calculation)

- Trigger:** Called when calculating bonuses for individual customers.
- Logic:** This program performs the actual calculations based on customer data and bonus criteria.
- Impact:** This is a **critical calculation step** that determines the final bonus amounts.

### 3. EK715R (Calculate Bonuses for All Customers)

- Trigger:** Called when initiating a mass calculation of bonuses.
- Logic:** This program processes all customers to calculate their respective bonuses.
- Impact:** Represents the handoff to the next major business function of bonus processing.

This documentation provides a comprehensive overview of the business logic implemented in the EK100R program, focusing on customer bonus management and related processes.