

EK100R.MBR

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Business Logic for EK100R - 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 selected, updated, and calculated within the system.

The core logic for managing customer bonuses is contained within the various subroutines in EK100R. This program allows for the selection of customers from a list, maintenance of bonus parameters, and processing of bonus calculations.

Customer Selection and Bonus Rules

EK100R: rkunlr, rkunl1, rkunl2, ekboi1, ekbtir, ekbtu, ekbei1, ekbeiu

1. Select Eligible Customers

- Logic:** The program selects customers who are eligible for bonuses based on specific criteria defined in the customer files.
- File:** rkunlr (Customer Master File)
- Field:** rkunlr_kund
- Condition:** The process will not select a record if rkunlr_kund is not found in the database.

2. Update Bonus Parameters

- Logic:** The program allows for the updating of bonus parameters for selected customers.
- File:** ekboi1 (Bonus Information File)
- Field:** ekboi1_bkun
- Condition:** The update will only occur if the selected customer has valid bonus data.

Configuration and Authorization Rules

1. Mass Update of Bonus Parameters

- Logic:** The program supports mass updates of bonus parameters for multiple customers based on user input.
- Files:**
 - ekboiu (Bonus Update File)
 - ekbei1 (Bonus Element File)
- Fields:**
 - ekboiu_bkun (Customer Key)
 - ekbei1_ebku (Bonus Element Key)
- Condition:** The mass update will only proceed if the user confirms the action and valid customer records are found.

2. Authorization for Bonus Calculation

- Logic:** The program checks if the user is authorized to perform bonus calculations.
- File:** ekbtir (Bonus Type File)

- Field:** ekbtir_tbku
 - Condition:** The calculation will not proceed if the user does not have the required permissions.
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Financial and Transactional Rules

1. Calculate Annual Bonus

- Logic:** The program calculates the annual bonus for each customer based on their bonus type and parameters.
- File:** ekboi1 (Bonus Information File)
- Fields:**
 - ekboi1_bkun (Customer Key)
 - ekboi1_key (Bonus Key)
- Condition:** The calculation will only occur if the bonus type is valid and the customer has an active bonus agreement.

2. Generate Customer Letters

- Logic:** The program generates letters for customers detailing their bonus information.
 - File:** ekbtir (Bonus Type File)
 - Condition:** Letters will only be generated for customers who have valid bonus agreements.
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Special Conditions (Program-Specific)

1. Handle Multiple Bonus Groups (EK100R)

- Logic:** The program can handle multiple bonus groups for customers, allowing for up to 99 different groups.
- File:** ekboi1 (Bonus Information File)
- Field:** ekboi1_bkun
- Condition:** The program will check for the existence of multiple bonus groups before processing.

2. Customer Bonus Agreement Check (EK100R)

- Logic:** The program checks if a selected customer has a valid bonus agreement before proceeding with any updates or calculations.
 - File:** ekbtir (Bonus Type File)
 - Fields:** ekbtir_tbku (Bonus Type Key)
 - Condition:** The process will not proceed if the customer does not have an active bonus 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 Program)

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

2. EK104R (Bonus Calculation Program)

- Trigger:** Called when calculating bonuses for a specific customer.

- Logic:** This program performs the detailed calculations for the annual bonus based on customer data.
- Impact:** This is a **critical calculation step** that directly affects the financial records of the customer.

3. EK715R (Mass Bonus Calculation Program)

- Trigger:** Called when the user selects the option to calculate bonuses for all customers.
- Logic:** This program processes the calculations for all customers eligible for bonuses.
- Impact:** This represents the handoff to the next major business function of processing bonuses across the customer base.