

# RK100R.MBR

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## Business Logic for Customer Maintenance

This document outlines the business rules that govern customer maintenance within the system, based on an analysis of the RPG program RK100R. The primary focus is on the logic for managing customer records, including creation, updating, deletion, and retrieval of customer information.

The core logic for customer maintenance is contained within various subroutines in RK100R. The program handles customer data through subfiles, allowing for efficient display and interaction with customer records.

## Customer Status and Record Rules

**Customer Maintenance:** RKUNLR, RKUNL1, RKUNL2, RKUNL3, RKMEL1, RKSOLU, RKTRL1, RAA1L1, APOSPF, RKSALU, RKLAL2, LKEYIU, LOPEIU, RUKPL1, AFPSLR, AMODL1, FSTSL1, BSTSL1

### 1. Customer Creation

- Logic:** A new customer record is created if the customer ID does not already exist in the database.
- File:** RKUNLR (Customer Master File)
- Field:** RKKUND (Customer ID)
- Condition:** The process will not create a record if RKKUND already exists.

### 2. Customer Update

- Logic:** Existing customer records can be updated with new information.
- File:** RKUNLR (Customer Master File)
- Field:** RKKUND (Customer ID)
- Condition:** The process will only update if the customer ID exists in the file.

### 3. Customer Deletion

- Logic:** A customer record can be deleted if there are no outstanding balances or associated orders.
- File:** RKUNLR (Customer Master File)
- Field:** RKSALD (Balance)
- Condition:** The process will not delete a record if RKSALD is not equal to zero or if there are associated orders.

## Configuration and Validation Rules

### 1. Customer Validation

- Logic:** Validates customer data before creation or update, ensuring fields like postal code and payment terms are valid.
- Files:**
  - APOSPF (Postal Code File)

- RKBETB (Payment Terms File)

- Fields:**

- AOSPF\_PONR (Postal Code)

- RKBETB (Payment Terms)

- Condition:** The process will raise an error if any of the validation checks fail.

## 2. Email Notification

- Logic:** Sends an email notification to the customer when a key is generated or modified.

- File:** AFPSLR (Email Address File)

- Field:** AFUDSS (Email Address)

- Condition:** The email will only be sent if a valid email address is found in the AFPSLR file.

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## Financial and Transactional Rules

### 1. Balance Check Before Deletion

- Logic:** Checks if the customer has any outstanding balances before allowing deletion.

- File:** RKUNLR (Customer Master File)

- Field:** RKSALD (Balance)

- Condition:** The deletion will be blocked if RKSALD is greater than zero.

### 2. Order Check Before Deletion

- Logic:** Ensures there are no active orders associated with the customer before deletion.

- File:** RKTRL1 (Order File)

- Field:** RKTR1\_KUND (Customer ID)

- Condition:** The deletion will be blocked if any orders are found for the customer.

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## Special Conditions (Program-Specific)

### 1. Smartkalk Integration (RK100R)

- Logic:** Integrates with the Smartkalk system to manage customer keys and notifications.

- File:** LKEYIU (Smartkalk Key File)

- Field:** LKEYIU\_YKNR (Customer Key)

- Condition:** The process will check if the Smartkalk module is active and will generate keys accordingly.

### 2. Customer Search Functionality (RK100R)

- Logic:** Allows searching for customers based on various fields such as name, postal code, and customer ID.

- File:** RKUNLR (Customer Master File)

- Field:** RKKUND, RKALFA, RKPONR (Customer ID, Alpha Field, Postal Number)

- Condition:** The search will only return results if the input fields are not blank.

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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. RK110R (Customer Posting Inquiry)

- Trigger:** Called when the user selects to view postings for a customer.

- Logic:** Retrieves and displays customer postings based on the customer ID.
- Impact:** This call acts as a **major logical gateway** for accessing customer transaction history.

## **2. RK643C (Customer Statement Print)**

- Trigger:** Called when the user selects to print a statement for a customer.
- Logic:** Generates a statement for the specified customer.
- Impact:** This represents the handoff to the next major business function of generating customer statements.

## **3. RK750R (Customer Maintenance)**

- Trigger:** Called during the maintenance process to handle additional customer-related tasks.
- Logic:** Manages various maintenance tasks related to customer records.
- Impact:** This call ensures that all necessary maintenance actions are performed consistently.

This documentation provides a comprehensive overview of the business logic for customer maintenance in the RK100R program, detailing the rules and processes that govern customer data management.