

# RK100R.MBR

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## Business Logic for Customer Maintenance

This document outlines the business rules that govern the customer maintenance process, based on an analysis of the RPG program RK100R. The primary focus is on the logic related to customer data management, including creation, modification, and deletion of customer records.

The core logic for customer maintenance is contained within the various subroutines in RK100R. The program handles customer data through a subfile interface, allowing users to view, create, update, and delete customer records.

## Customer Status and Record Rules

**Customer Maintenance:** RKUNLR, RKUNL1, RKUNL2, RKUNL3, RKMEL1, RKTR1, RKSOLU, RKLAL2

### 1. Customer Record Creation

- Logic:** New customer records can be created if the customer number is valid and not already existing in the database.
- File:** RKUNLR (Customer master file)
- Field:** RKKUND
- Condition:** The process will not create a record if RKKUND already exists in RKUNLR.

### 2. Customer Record Deletion

- Logic:** Customer records can be deleted if there are no outstanding balances or related records in other tables.
- File:** RKUNLR (Customer master file)
- Field:** RKKUND
- Condition:** The process will not delete a record if RKSALD (balance) is not equal to zero or if there are related records in RKTR1.

## Configuration and Authorization Rules

### 1. Customer Access Control

- Logic:** Access to customer records is controlled based on user permissions and the status of the customer.
- Files:**
  - RKUNLR (Customer master file)
  - FSTSL1 (Status control file)
- Fields:**
  - RKKUND (Customer number from RKUNLR)
  - FAAKNR (Access status from FSTSL1)
- Condition:** Access will be denied if the customer status indicates it is inactive or restricted.

### 2. Validation of Customer Data

- Logic:** Customer data must be validated against predefined criteria before being saved.

- File:** RKUNLR (Customer master file)
  - Field:** RKKUND
  - Condition:** The process will not save the record if RKKUND is outside the defined range of valid customer numbers.
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## Financial and Transactional Rules

### 1. Outstanding Balance Check

- Logic:** Before deleting a customer, the system checks for any outstanding balances.
- File:** RKUNLR (Customer master file)
- Fields:**
  - RKSALD (Outstanding balance)
  - RKMEMS (Memo balance)
- Condition:** The deletion will be blocked if RKSALD or RKMEMS is greater than zero.

### 2. Customer Payment Terms Validation

- Logic:** Payment terms must be validated against the payment terms table.
  - File:** RKUNLR (Customer master file)
  - Condition:** The process will not allow saving if the payment terms are not valid as per the RKBETM table.
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## Special Conditions (Program-Specific)

### 1. Smartkalk Integration (RK100R)

- Logic:** The program integrates with the Smartkalk system for customer key generation and management.
- File:** LKEYIU (Smartkalk key file)
- Field:** LKEYIU\_YKNR
- Condition:** The process will not proceed if the Smartkalk module is not installed or if the customer key already exists.

### 2. Customer Email Notification (RK100R)

- Logic:** An email notification is sent to the customer contact upon key generation.
  - File:** AFPSLR (Email settings file)
  - Fields:** AFUDSS (Email address), P\_SUBJ, P\_TXT1, P\_TXT2
  - Condition:** The email will only be sent if a valid email address is found in the AFPSLR file.
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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 related to a customer.
- Logic:** This program retrieves and displays all postings associated with the selected customer.
- Impact:** This call acts as a **major logical gateway** for accessing customer transaction history.

### 2. RK643C (Customer Statement Generation)

- Trigger:** Called when the user opts to print a customer statement.

- Logic:** Generates a statement for the specified customer.

- Impact:** This is a **destructive filtering step** that ensures only valid customer data is printed.

### 3. RK750R (Customer Maintenance)

- Trigger:** Called to maintain customer records, including updates and deletions.

- Logic:** This program handles the core logic for updating customer information.

- Impact:** Represents the handoff to the next major business function, ensuring data integrity and compliance with business rules.