# RK100R.MBR

**Path**: NXCLOUD/rpgsrc/RK100R.MBR **Generated**: 2026-01-08 13:32:50 **Processing Time**: 13553ms

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# Business Logic for Customer Maintenance

This document outlines the business rules that govern customer maintenance processes, based on an analysis of the RPG program RK100R. The primary focus is on how customer records are created, updated, displayed, and deleted within the system.

The core logic for customer maintenance is contained within the various subroutines in RK100R. The program handles customer data through subfile processing, allowing for efficient display and manipulation of customer records.

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## Customer Status and Record Rules

**Customer Maintenance**: FRKUNLR, FRKUNL1, FRKUNL2, FRKUNL3, FRKUNLU

**1. Record Creation**

•**Logic:** A new customer record is created if the customer ID does not already exist in the database.

•**File:** FRKUNLR (Customer Records)

•**Field:** RKKUND (Customer ID)

•**Condition:** The process will not create a record if RKKUND is found in the FRKUNLR file.

**2. Record Update**

•**Logic:** Existing customer records can be updated based on user input.

•**File:** FRKUNLR (Customer Records)

•**Field:** RKKUND (Customer ID)

•**Condition:** The update will only occur if the customer ID exists in the database.

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## Input Validation and Error Handling Rules

**1. Input Validation for Customer ID**

•**Logic:** Validates that the customer ID is within acceptable limits before processing.

•**File:** FRKUNLR (Customer Records)

•**Field:** RKKUND (Customer ID)

•**Condition:** The process will raise an error if RKKUND is less than or equal to RA1HKT or greater than or equal to RA1HRS.

**2. Email Address Validation**

•**Logic:** Checks if the email address is valid before sending notifications.

•**File:** AFPSLR (Email Records)

•**Field:** AFUDSS (Email Address)

•**Condition:** The process will not send an email if the email address is blank.

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## Customer Interaction and Display Rules

**1. Display Customer Records**

•**Logic:** Displays customer records in a subfile format for user interaction.

•**File:** FRKUNLR (Customer Records)
•**Fields:**
•RKKUND (Customer ID)
•RKNAVN (Customer Name)
•**Condition:** The display will only show records that meet the current search criteria.
**2. Search Functionality**
•**Logic:** Allows users to search for customers based on various criteria.
•**File:** FRKUNLR (Customer Records)
•**Field:** RKALFA (Alpha Field)
•**Condition:** The search will only return results if the search field is not blank.

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# Special Conditions (Program-Specific)
**1. Customer Deletion Check (RK100R)**
•**Logic:** Checks if a customer can be deleted based on existing transactions or dependencies.
•**File:** FRKUNLR (Customer Records)
•**Field:** RKSALD (Balance)
•**Condition:** The deletion will be blocked if the balance is not zero or if there are existing orders.
**2. Integration with External Systems (RK100R)**
•**Logic:** Integrates with external systems for customer data synchronization.
•**File:** RK750R (External System Call)
•**Fields:** RKKUND, W_FIRM
•**Condition:** The integration occurs only if the customer ID is valid and exists in the system.

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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 Inquiry Program)**
•**Trigger:** Called when the user requests to view customer postings.
•**Logic:** Retrieves detailed information about customer transactions.
•**Impact:** This call acts as a **major logical gateway** for accessing customer transaction data.
**2. AS700R (Search Utility)**
•**Trigger:** Called during the search process for customer records.
•**Logic:** Processes search criteria and returns matching customer records.
•**Impact:** This is a **destructive filtering step** that narrows down the customer list based on input criteria.
**3. RK643C (Customer Statement Program)**
•**Trigger:** Called when generating statements for a specific customer.
•**Logic:** Produces a detailed statement of transactions for the customer.
•**Impact:** Represents the handoff to the next major business function of customer statement generation.
This documentation provides a comprehensive overview of the business logic implemented in the RK100R RPG program, focusing on customer maintenance processes.