RK100R.MBR

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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 the logic related to customer data management, including creation, updating, searching, and deletion of customer records. The core logic for customer maintenance is contained within the various subroutines in RK100R. The program handles customer records through subfile processing, allowing for efficient display and interaction with customer data.

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Customer Status and Record Rules

Customer Maintenance: RKUNLR, RKUNL1, RKUNL2, RKUNL3, RKSOLU, RKTRL1, RKUNLU, RKLAL2, RKSALU, RKU3IU

1. Customer Creation

•**Logic:** A new customer record can be created if the customer number is not already in use. The program checks for existing records before allowing the creation.

•**File:** RKUNLR (Customer Master File)

•**Field:** RKKUND

•**Condition:** The process will not create a record if RKKUND already exists in RKUNLR.

2. Customer Update

•**Logic:** Existing customer records can be updated. The program retrieves current data and allows modifications.

•**File:** RKUNLR (Customer Master File)

•**Field:** RKKUND

•**Condition:** The process will not update a record if the customer number does not match an existing record.

3. Customer Deletion

•**Logic:** A customer record can be deleted if there are no outstanding balances or associated records in other files.

•**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 RKTRL1.

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Search and Filter Rules

1. Customer Search

•**Logic:** Customers can be searched based on various criteria such as customer number, name, or postal code. The program supports wildcard searches.

•**Files:**

•RKUNLR (Customer Master File)

• RKUNL1, RKUNL2, RKUNL3 (Customer Subfiles)

• **Fields:**

• RKKUND (Customer Number)

• RKALFA (Alpha Field)

• RKPONR (Postal Number)

• **Condition:** The search will return results based on the provided criteria, and will not display records if the search criteria do not match.

2. Display Active Customers

• **Logic:** The program can filter to display only active customers or those created quickly.

• **File:** RKUNLR (Customer Master File)

• **Field:** RKPASS (Active Status)

• **Condition:** The process will only display records where RKPASS is not equal to 'J' (indicating inactive).

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Special Conditions (Program-Specific)

1. Email Notification on Customer Creation

• **Logic:** An email is sent to the contact person when a new customer record is created.

• **File:** RKUNLR (Customer Master File)

• **Field:** RKMAIL (Email Address)

• **Condition:** The email will be sent if a valid email address is found in the customer record.

2. Validation of Customer Data

• **Logic:** Before creating or updating a customer, the program validates fields such as postal code, payment conditions, and customer category.

• **Files:**

• APOSPF (Postal Code File)

• RKBETB, RKBETM, RKKATG, RKSLGR (Payment and Category Files)

• **Fields:**

• K1PONR, K1BETB, K1BETM, K1KATG, K1SLGR

• **Condition:** The process will not proceed if any of these validations fail, and appropriate error messages will be displayed.

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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. RK750R (Customer Maintenance Subprogram)

• **Trigger:** Called during customer creation and updates.

• **Logic:** Handles the maintenance of customer records and ensures data integrity.

• **Impact:** This call acts as a **major logical gateway** for customer data management.

2. ROM01R (Posting Inquiry Subprogram)

• **Trigger:** Called when viewing postings related to a customer.

• **Logic:** Retrieves and displays financial postings for the specified customer.

•**Impact:** This is a **destructive filtering step** that ensures only relevant postings are shown.

3. AS700R (Search Utility Subprogram)

•**Trigger:** Called during customer searches to process search strings.

•**Logic:** Parses and formats search strings for database queries.

•**Impact:** This ensures that searches are efficient and return accurate results based on user input.