

# RS001R.MBR

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## Business Logic for Customer Number Retrieval

This document outlines the business rules that govern the retrieval of the last used customer number, based on an analysis of the RPG program RS001R. The primary focus is on how the program processes customer numbers and applies business rules to ensure valid customer number retrieval.

The core logic for retrieving the last used customer number is contained within the main processing logic of the RS001R program. The program checks various conditions and updates the customer number based on specific rules and constraints.

## Customer Number Retrieval Rules

**Customer Number Retrieval Process:** raa4pfr, rkunpfr, raa1pfr

### 1. Check for Last Used Customer Number

- Logic:** The program attempts to retrieve the last used customer number from the customer register. If not found, it sets a flag indicating failure.

- File:** raa4pfr (Last used customer number file)

- Field:** ra4knr

- Condition:** The process will not succeed if the record is not found in the raa4pfr file.

### 2. Update Last Used Customer Number

- Logic:** If the last used customer number is found, the program updates it based on specific conditions related to the input parameters.

- File:** raa4pfr (Last used customer number file)

- Field:** ra4knr

- Condition:** The customer number is updated based on the value of w\_test and other parameters.

## Boundary and Validation Rules

### 1. Boundary Check for Customer Number

- Logic:** The program checks if the updated customer number is within defined limits. If it exceeds these limits, it sets a failure flag.

- Files:**

- raa1pfr (Boundary values file)

- Fields:**

- ra1hkt (Lower boundary)

- ra1hrs (Upper boundary)

- Condition:** The process will not proceed if w\_4knr is less than or equal to ra1hkt or greater than or equal to ra1hrs.

### 2. Existence Check for Customer Number

- Logic:** The program checks if the last used customer number exists in the customer register. If it does not, it increments the number until a valid one is found.

- File:** rkunpfr (Customer register)
- Field:** rkkund
- Condition:** The process continues to increment w\_kund until a valid customer number is found.

## Special Conditions (Program-Specific)

### 1. Initialization and Parameter Handling (RS001R)

- Logic:** The program initializes parameters received from the calling program and sets up keys for file access.
- File:** raa1pfr, raa4pfr, rkunpfr (Various files for customer data)
- Fields:**
  - w\_firm (Firm identifier)
  - p\_4knr (Last used customer number)
- Condition:** The program must receive valid parameters to function correctly.

### 2. Finalization of Processing (RS001R)

- Logic:** The program finalizes processing by setting the last record indicator and returning control to the calling program.
- File:** None (Finalization step)
- Condition:** The program must ensure all processing is complete before returning.

## Subprogram Calls Affecting Logic

Beyond direct file checks, several external subprograms are called that play a significant role in the workflow.

### 1. RS001R (Customer Number Control Program)

- Trigger:** This program is called to retrieve and update the last used customer number.
- Logic:** It processes input parameters, checks for existing customer numbers, and updates the last used customer number based on business rules.
- Impact:** This call acts as a **critical control point** for managing customer number assignments.

### 2. [Other Programs] ([Program Description])

- Trigger:** Other programs may call this program as part of a larger workflow.
- Logic:** They may pass parameters that influence how the last used customer number is retrieved or updated.
- Impact:** The interaction with these programs can affect the overall customer management process.

### 3. [Other Programs] ([Program Description])

- Trigger:** This program may interact with other modules for validation or data retrieval.
- Logic:** It ensures that customer numbers are valid and adhere to business rules.
- Impact:** Represents the handoff to the next major business function, ensuring data integrity across the system.