RK500R.MBR

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Business Logic for Customer Inquiry Subprogram

This document outlines the business rules that govern the customer inquiry subprogram, based on an analysis of the RPG program `RK500R`. The primary focus is on the conditions that will **block** a customer record from being displayed or processed in the subfile.

The core logic for managing the customer inquiry and subfile processing is contained within the `crt_subfile` subroutine in `RK500R`. A customer record must pass all the following checks to be included in the subfile.

Order Status and Header Rules

1. **Exclude Passive Customers**
    *   **Logic:** Passive customers are excluded from the subfile when the indicator `*IN55` is set to `*ON`.
    *   **File:** `RKUNL1` (Customer Master File)
    *   **Field:** `RKPASS`
    *   **Condition:** The process will skip a customer record if `RKPASS` is equal to `'J'` (indicating the customer is passive).

2. **Firm Mismatch**
    *   **Logic:** Only customers belonging to the specified firm (`W_FIRM`) are included in the subfile.
    *   **File:** `RKUNL1` (Customer Master File)
    *   **Field:** `RKFIRM`
    *   **Condition:** The process will terminate subfile creation if `RKFIRM` is not equal to `W_FIRM`.

Configuration and Authorization Rules

3. **Subfile Positioning**
    *   **Logic:** Subfile positioning is performed using the `RKUNL1` or `RKUNL2` keys, depending on the search mode (`W_SEQE`).
    *   **File:** `RKUNL1` (Customer Master File), `RKUNL2` (Customer Alpha Index File)
    *   **Field:** `RKUNL1_KUND`, `RKUNL2_ALFA`
    *   **Condition:** If the key values do not match the search criteria, the record is skipped.

4. **Search Text Matching**
    *   **Logic:** Customer records are filtered based on search text entered by the user (`W_STE1`, `W_STE2`, `W_STE3`, `W_STE4`, `W_STE5`).
    *   **File:** `RKUNL1` (Customer Master File)
    *   **Field:** `RKSTEK`
    *   **Condition:** If the search text does not match any part of the field `RKSTEK`, the record is skipped.

Financial and Transactional Rules

5. **SQL Fetch Limit**
    *   **Logic:** The SQL cursor fetches customer records based on the firm and search text criteria.
    *   **File:** `RKSOPF` (Customer Search File)
    *   **Field:** `RKSFIR`, `RKSTEK`

* **Condition:** The SQL fetch will stop if no more records match the criteria or if the SQL status (`SQLCOD`) is `100` or `SQLSTT` is `'02000'`.

Special Conditions (Program-Specific)

6. **Newlook Data Validation**
   * **Logic:** Certain characters (`.` or `:`) at the end of customer names or addresses are removed to prevent errors in the Newlook GUI.
   * **File:** `RKUNL1` (Customer Master File)
   * **Field:** `B1NAVN`, `B1GATE`
   * **Condition:** If the last character of `B1NAVN` or `B1GATE` is `.` or `:`, it is replaced with a blank.

7. **Subfile Clearing**
   * **Logic:** The subfile is cleared before new records are added.
   * **File:** `B1SFL` (Subfile)
   * **Field:** N/A
   * **Condition:** The subfile is cleared by setting indicator `*IN14` to `*ON`.

Subprogram Calls Affecting Logic

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

1. **`AS700R` (Search Text Parsing)**
   * **Trigger:** Called during the `sØk` subroutine when a search text is provided (`B2STEK` is not blank).
   * **Logic:** Parses the search text into individual components (`W_STE1`, `W_STE2`, `W_STE3`, `W_STE4`, `W_STE5`).
   * **Impact:** Determines the search criteria for filtering customer records.

2. **`RK502R` (Customer Detail Display)**
   * **Trigger:** Called during the `xc2bld` subroutine when a customer record is selected for detailed display (`B1VALG = 1`).
   * **Logic:** Displays detailed information about the selected customer.
   * **Impact:** Provides additional context for the selected customer but does not affect subfile processing.

3. **SQL Cursor (`SOK`)**
   * **Trigger:** Opened during the `crt_subfile` subroutine when the search mode is active (`W_SEQE = 'S'` and `B_OPEN_SOK = *ON`).
   * **Logic:** Fetches customer records from the `RKSOPF` file based on firm and search text criteria.
   * **Impact:** Populates the subfile with matching customer records.