

RK500R.MBR

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Business Logic for Customer Inquiry Subprogram

This document outlines the business rules that govern customer inquiries and subfile processing, based on an analysis of the RPG program `RK500R`. The primary focus is on the conditions that will **block** a customer inquiry or subfile processing.

The core logic for customer inquiry and subfile management is contained within the `subfile` subroutine in `RK500R`. A customer inquiry must pass all the following checks to be processed.

Order Status and Header Rules

1. **Customer Firm Validation**

- * **Logic:** The customer's firm (`rkfirm`) must match the current firm (`w_firm`) being processed.
- * **File:** `rkun11` (Customer Master File)
- * **Field:** `rkfirm`
- * **Condition:** The process will not include a customer if `rkfirm` is not equal to `w_firm`. This ensures that only customers belonging to the current firm are processed.

2. **Inactive Customer Exclusion**

- * **Logic:** Customers marked as inactive (`rkpass = 'J'`) are excluded from the inquiry.
- * **File:** `rkun11` (Customer Master File)
- * **Field:** `rkpass`
- * **Condition:** The process will skip a customer if `rkpass` is equal to `'J'`. This indicates that the customer is inactive and should not be displayed in the subfile.

Configuration and Authorization Rules

3. **Subfile Page Size Limit**

- * **Logic:** The subfile page size (`w_spge`) must not exceed the predefined limit (`c_sfil`).
- * **File:** Not applicable (internal variable)
- * **Field:** `w_spge`
- * **Condition:** The process will stop adding records to the subfile when `w_spge` reaches the value of `c_sfil`. This prevents overflow in the subfile display.

4. **Search Text Validation**

- * **Logic:** Search text fields (`w_stel`, `w_stel2`, `w_stel3`, `w_stel4`, `w_stel5`) must match the customer's text fields (`rkstek`) for inclusion in the subfile.

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* **File:** `rksopf` (Search Options File)
* **Field:** `rkstek`
* **Condition:** The process will skip a customer if the search text
(`w_stex`) does not match the corresponding field in `rkstek`. This
ensures that only customers matching the search criteria are displayed.
## Financial and Transactional Rules
5. **SQL Cursor Validation**
* **Logic:** The SQL cursor must successfully fetch customer records
from the database.
* **File:** `rksopf` (Search Options File)
* **Field:** `rksfir`, `rkstek`, `rkskun`
* **Condition:** The process will terminate subfile creation if the SQL
cursor fetch results in `SQLCOD = 100` or `SQLSTT = '02000'`. This
indicates no matching records were found.
## Special Conditions (Program-Specific)
6. **Subfile Record Validation**
* **Logic:** Each record added to the subfile must pass validation
checks for firm, customer status, and search text.
* **File:** `rkun11` (Customer Master File)
* **Field:** `rkfirm`, `rkpass`, `rkkund`, `rknavn`
* **Condition:** The process will skip a record if:
- `rkfirm` does not match `w_firm`.
- `rkpass` is equal to ``J``.
- Search text validation fails (`w_posi = 0` for any `w_stex`).
7. **Newlook Data Cleaning**
* **Logic:** Certain characters (`.` and `:`) are removed from customer
name (`blnavn`) and address (`blgate`) fields to prevent errors in
Newlook GUI.
* **File:** Not applicable (internal variable)
* **Field:** `blnavn`, `blgate`
* **Condition:** The process will replace `.` and `:` characters in
`blnavn` and `blgate` using the `newlo_vask` subroutine. This ensures
compatibility with the Newlook interface.
## 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 Extraction)**
* **Trigger:** Called during the `s0k` subroutine when a search is
initiated.
* **Logic:** Extracts search text fields (`w_stel`, `w_ste2`, `w_ste3`,
`w_stet4`, `w_stet5`) based on the input search text (`b2stek`).
* **Impact:** Ensures that the search criteria are properly parsed and

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applied to the subfile creation process.

2. **`RK502R` (Customer Display)**

* **Trigger:** Called during the `xc2bld` subroutine when a customer record is selected for display.

* **Logic:** Displays detailed information about the selected customer (`blkund`) based on the customer number (`w_kund`).

* **Impact:** Provides detailed customer information for user review, but does not affect subfile creation.

Summary

The `RK500R` program implements robust business logic to manage customer inquiries and subfile processing. Blocking conditions are primarily related to firm validation, inactive customer exclusion, search text matching, and SQL cursor results. Additional program-specific rules ensure compatibility with the Newlook GUI and maintain subfile integrity.