

SI500R.MBR

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Business Logic for SI500R

This document outlines the business rules that govern the purchase query process, based on an analysis of the RPG program SI500R. The primary focus is on the input validation and querying logic for purchases.

The core logic for handling purchase queries is contained within the spØrring subroutine in SI500R. The program processes user input, validates it, and calls other programs to retrieve relevant purchase data based on the input criteria.

Order Status and Header Rules

Purchase Query Process: sistpf, rlevl1, klal1, vvarl1, vvasl1

1. Input Validation

- Logic:** Validates user input fields for purchase queries, ensuring that required fields are filled and correctly formatted.
- File:** sistpf (Main purchase data file)
- Field:** b1bida
- Condition:** The process will flag an error if b1bida is not equal to 0 and fails date validation.

2. Firm Code Check

- Logic:** Ensures that a firm code is provided before proceeding with the query.
- File:** sistpf (Main purchase data file)
- Field:** b1paar
- Condition:** The process will raise an error if b1paar is equal to 0.

Configuration and Authorization Rules

1. Supplier Validation

- Logic:** Checks if the supplier exists based on the provided supplier number.
- Files:**
 - rlevl1 (Supplier information file)
- Fields:**
 - b1valn (Supplier number from input)
- Condition:** The process will flag an error if b1valn is not equal to 0 and the supplier cannot be found.

2. Item Number Validation

- Logic:** Validates the item number against the inventory records.
- File:** vvarl1 (Item inventory file)
- Field:** b1vare
- Condition:** The process will raise an error if b1vare is not equal to 0 and the item cannot be found.

Financial and Transactional Rules

1. Query Execution Based on Input

- Logic:** Executes the appropriate query based on whether a supplier or item number is provided.
- Files:**
 - SI501R (Supplier query program)
 - SI502R (Item query program)
- Fields:**
 - w_firm (Firm code)
 - b1paar (Purchase year)
 - b1valn (Supplier number)
 - w_vare (Item number)
- Condition:** The program will call SI501R if b1vare is equal to 0; otherwise, it will call SI502R.

2. Date Handling

- Logic:** Handles the date input for queries, ensuring it is formatted correctly.
 - File:** sistpf (Main purchase data file)
 - Condition:** The process will set the date to the current date if b1bida is not equal to 0.
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Special Conditions (Program-Specific)

1. Error Handling (SI500R)

- Logic:** Sets error flags based on validation checks throughout the program.
- File:** sistpf (Main purchase data file)
- Field:** b_feil
- Condition:** The process will set b_feil to *on if any validation fails, preventing further processing.

2. Supplier Name Retrieval (SI500R)

- Logic:** Retrieves the supplier name based on the supplier number.
 - File:** rlev1 (Supplier information file)
 - Fields:** b1lnav (Supplier name)
 - Condition:** The supplier name is set if the supplier number is valid.
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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. SI501R (Supplier Query Program)

- Trigger:** Called when no item number is provided (b1vare = 0).
- Logic:** Retrieves purchase data based on the supplier number and other parameters.
- Impact:** This call acts as a **major logical gateway** for supplier-related queries.

2. SI502R (Item Query Program)

- Trigger:** Called when an item number is provided.
- Logic:** Retrieves purchase data based on the item number and other parameters.
- Impact:** This is a **destructive filtering step** for item-related queries.

3. RL500R (Supplier Details Program)

- Trigger:** Called during the spørring subroutine when querying supplier details.
- Logic:** Retrieves additional details about the supplier based on the supplier number.
- Impact:** Represents the handoff to the next major business function, providing detailed supplier information.