

SI500R.MBR

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Business Logic for Purchase Query Process

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 logic that handles user input, validates it, and calls other programs for processing purchase queries.

The core logic for handling the purchase query is contained within the sp0rring subroutine in SI500R. The program processes user input, checks for errors, and invokes other subprograms to retrieve relevant data based on the input parameters.

Input Validation and Error Handling Rules

Purchase Query Process: sistpf, rlevl1, k1al1, vvarl1, vvasl1

1. Check Required Fields

- **Logic:** Ensures that at least one of the supplier or item fields is populated before proceeding.
- **File:** sistpf (Main input file)
- **Field:** b1valn, b1vare
- **Condition:** The process will trigger an error if both b1valn (supplier number) and b1vare (item number) are equal to 0.

2. Validate Date Format

- **Logic:** Checks if the date entered is valid.
- **File:** sistpf (Main input file)
- **Field:** b1bida
- **Condition:** The process will trigger an error if b1bida is not a valid date.

Query Execution Rules

1. Supplier Query Execution

- **Logic:** Calls the RL500R program to retrieve supplier information based on the supplier number.
- **File:** rlevl1 (Supplier file)
- **Field:** b1valn
- **Condition:** This query is executed if wactfe is equal to 'B1VALN'.

2. Item Query Execution

- **Logic:** Calls the VV500R program to retrieve item information based on the item number.
- **File:** vvarl1 (Item file)
- **Field:** b1vare
- **Condition:** This query is executed if wactfe is equal to 'B1VARE'.

Special Conditions (Program-Specific)

1. Handling of Input Errors (SI500R)

- **Logic:** Sets error flags and manages user feedback for invalid inputs.
- **File:** sistpf (Main input file)

- Field:** b_feil
 - Condition:** If any validation fails, the error flag b_feil is set to *on*, and the program will not proceed to the query execution.
- 2. Date Initialization (SI500R)**
- Logic:** Initializes the date variable with the current date when the program starts.
 - File:** sistpf (Main input file)
 - Field:** w_dato
 - Condition:** The date is set at the beginning of the program execution.

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 the supplier number is provided and the user initiates a query.
- Logic:** Retrieves and processes supplier data based on the provided parameters.
- Impact:** This call acts as a **major logical gateway** for supplier-related queries.

2. SI502R (Item Query Program)

- Trigger:** Called when the item number is provided and the user initiates a query.
- Logic:** Retrieves and processes item data based on the provided parameters.
- Impact:** This call serves as a **critical step** in obtaining item information.

3. RL500R (Supplier Detail Retrieval)

- Trigger:** Called from the spØrring subroutine when querying supplier details.
- Logic:** Fetches detailed information about the supplier based on the supplier number.
- Impact:** This represents the handoff to the next major business function of retrieving supplier details.

4. VV500R (Item Detail Retrieval)

- Trigger:** Called from the spØrring subroutine when querying item details.
- Logic:** Fetches detailed information about the item based on the item number.
- Impact:** This represents the handoff to the next major business function of retrieving item details.