

SI500R.MBR

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Business Logic for Purchase Query Processing

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 the handling of purchase queries based on various parameters.

The core logic for handling purchase queries is contained within the sp0rring subroutine in SI500R. The program processes user inputs, validates them, and calls other subprograms to retrieve relevant purchase information based on the provided parameters.

Input Validation Rules

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

1. Check Required Fields

• **Logic:** Ensures that at least one of the supplier or item number fields is filled in.

• **File:** sistpf (Purchase transaction file)

• **Field:** b1valn, b1vare

• **Condition:** The process will not proceed if both b1valn (supplier number) and b1vare (item number) are zero.

2. Validate Supplier Number

• **Logic:** Checks if the supplier number exists in the supplier file and retrieves the supplier name.

• **File:** rlevl1 (Supplier file)

• **Field:** b1valn

• **Condition:** The process will not proceed if the supplier number does not exist in the supplier file.

3. Validate Item Number

• **Logic:** Checks if the item number exists in the item file and retrieves the item description.

• **File:** vvarl1 (Item file)

• **Field:** b1vare

• **Condition:** The process will not proceed if the item number does not exist in the item file.

Query Handling Rules

1. Handle Supplier Query

• **Logic:** If the user selects the supplier option, the program retrieves supplier details.

• **File:** rlevl1 (Supplier file)

• **Field:** b1valn

• **Condition:** Triggered when wactfe equals 'B1VALN'.

2. Handle Item Query

• **Logic:** If the user selects the item option, the program retrieves item details.

• **File:** vvarl1 (Item file)

• **Field:** b1vare

• **Condition:** Triggered when wactfe equals 'B1VARE'.

Special Conditions (Program-Specific)

1. Date Handling

•**Logic:** The program checks if a date is provided and validates its format.

•**File:** sistpf (Purchase transaction file)

•**Field:** b1bida

•**Condition:** The process will not proceed if the date is invalid.

2. Error Handling

•**Logic:** Sets an error flag if any validation fails and displays appropriate error messages.

•**File:** sistpf (Purchase transaction file)

•**Field:** b_feil

•**Condition:** The error flag is set to *on if any validation fails.

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 user queries supplier information.

•**Logic:** Retrieves supplier details based on the firm code and supplier number.

•**Impact:** This call acts as a **major logical gateway** for supplier-related queries.

2. SI502R (Item Query Program)

•**Trigger:** Called when the user queries item information.

•**Logic:** Retrieves item details based on the firm code and item number.

•**Impact:** This call is essential for fetching item-specific data.

3. RL500R (Supplier Details Retrieval Program)

•**Trigger:** Called within the spØrring subroutine for supplier queries.

•**Logic:** Retrieves additional supplier details based on the firm code and supplier number.

•**Impact:** This enhances the supplier query process by providing comprehensive supplier information.

4. VV500R (Item Details Retrieval Program)

•**Trigger:** Called within the spØrring subroutine for item queries.

•**Logic:** Retrieves additional item details based on the firm code and item number.

•**Impact:** This ensures that detailed item information is available for the user.

This documentation provides a clear overview of the business logic implemented in the SI500R program, focusing on input validation, query handling, and the interactions with other subprograms.