SI500R.MBR

Path: NXCLOUD/rpgsrc/SI500R.MBR **Generated**: 2026-01-08 12:35:29 **Processing Time**: 10945ms

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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 how the program handles user input and queries related to purchases.

The core logic for the purchase query is contained within the spØrring subroutine in SI500R. The program initializes the user interface, checks input fields, and calls other programs to retrieve purchase-related data based on user selections.

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Order Status and Header Rules

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

1. Input Validation

•**Logic:** The program checks if required input fields are filled before proceeding with the query.

•**Files:** sistpf (Main input file for purchase data)

•**Field:** b1valn, b1vare

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

2. Date Validation

•**Logic:** The program verifies that the date entered is valid.

•**File:** sistpf (Main input file for purchase data)

•**Field:** b1bida

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

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Configuration and Authorization Rules

1. Supplier Validation

•**Logic:** The program checks if the supplier number exists in the supplier file.

•**Files:**

•rlevl1 (Supplier file)

•**Fields:**

•rlevl1_levr (Supplier number from input)

•**Condition:** The process will indicate an error if the supplier number does not exist.

2. Item Validation

•**Logic:** The program checks if the item number exists in the item file.

•**File:** vvarl1 (Item file)

•**Field:** vvarl1_vare (Item number from input)

•**Condition:** The process will indicate an error if the item number does not exist.

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Financial and Transactional Rules

1. Query Execution for Supplier

•**Logic:** If a supplier number is provided, the program queries supplier details.

•**File:** RL500R (Supplier details retrieval program)

•**Fields:**

•w_firm (Firm code)

•b1valn (Supplier number)

•**Condition:** The query is executed if wactfe equals 'B1VALN'.

2. Query Execution for Item

•**Logic:** If an item number is provided, the program queries item details.

•**File:** VV500R (Item details retrieval program)

•**Condition:** The query is executed if wactfe equals 'B1VARE'.

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Special Conditions (Program-Specific)

1. Error Handling (SI500R)

•**Logic:** The program sets an error flag if any input validation fails.

•**File:** sistpf (Main input file for purchase data)

•**Field:** b_feil

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

2. Date Handling (SI500R)

•**Logic:** The program processes the date input and formats it for display.

•**File:** sistpf (Main input file for purchase data)

•**Fields:** w_dato (Formatted date), b1bida (Input date)

•**Condition:** The date is processed if b1bida is not zero.

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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 a supplier number is provided.

•**Logic:** Retrieves details for the specified supplier.

•**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 details for the specified item.

•**Impact:** This is a **destructive filtering step** that narrows down the query to specific item details.

3. RL500R (Supplier Details Retrieval)

•**Trigger:** Called within the spØrring subroutine when querying supplier details.

•**Logic:** Fetches supplier information based on the supplier number.

•**Impact:** Represents the handoff to the next major business function of retrieving supplier data.

4. VV500R (Item Details Retrieval)

•**Trigger:** Called within the spØrring subroutine when querying item details.

•**Logic:** Fetches item information based on the item number.

•**Impact:** Represents the handoff to the next major business function of retrieving item data.