

SF160R.MBR

Path: NXCLOUD/rpgsrc/SF160R.MBR **Generated:** 2026-01-08 13:33:04 **Processing Time:** 16541ms

Business Logic for Sales Statistics Registration

This document outlines the business rules that govern the sales statistics registration process, based on an analysis of the RPG program SF560R. The primary focus is on the logic that processes input parameters and validates customer and project information.

The core logic for handling the opening screen is contained within the B1 subroutine in SF560R. The program initializes the screen, processes user input, and validates the data before calling another program for further processing.

Order Status and Header Rules

Sales Statistics: STAPF, RKUNL1, FKPRL1

1. Input Validation

- Logic:** The program checks if required input fields are filled correctly before proceeding with the processing.
- File:** STAPF (Sales Statistics File)
- Field:** b1bida
- Condition:** The process will not proceed if b1bida is not valid or if b1paar equals 0.

2. Customer Validation

- Logic:** The program verifies if the customer exists in the RKUNL1 file based on the provided customer number.
- File:** RKUNL1 (Customer File)
- Field:** b1vkun
- Condition:** The process will not find a record if b1vkun is not valid, leading to an error flag being set.

Configuration and Authorization Rules

1. Project Validation

- Logic:** The program checks if the customer project exists in the FKPRL1 file based on the provided customer and project numbers.
- Files:**
 - RKUNL1 (Customer File)
 - FKPRL1 (Customer Project File)
- Fields:**
 - fkprl1_kund (from FKPRL1)
 - fkprl1_kpro (from FKPRL1)
- Condition:** The process will not find a record if the combination of customer and project numbers does not exist, which sets an error flag.

2. Firm Initialization

- Logic:** The program initializes the firm based on the parameter passed to it.

- File:** STAPF (Sales Statistics File)
 - Field:** w_firm
 - Condition:** The firm must be set correctly from the input parameter to ensure proper processing.
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Financial and Transactional Rules

1. Date Validation

- Logic:** The program checks if the date entered is valid according to the defined format.
- File:** STAPF (Sales Statistics File)
- Fields:**
 - b1bida (Date Input)
- Condition:** The process will not proceed if the date is invalid, which results in an error flag being set.

2. Customer Name Retrieval

- Logic:** If the customer is found, the program retrieves the customer's name for display.
 - File:** RKUNL1 (Customer File)
 - Condition:** The customer name is only retrieved if the customer record is found.
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Special Conditions (Program-Specific)

1. Program Call to SF161R

- Logic:** After validating inputs, the program calls SF161R to process the sales statistics.
- File:** SF161R (Sales Statistics Processing Program)
- Field:** p_kode
- Condition:** The call is made with all necessary parameters after successful validation. Note: This program handles the main logic for processing the sales statistics.

2. Error Handling

- Logic:** The program sets an error flag if any validation fails, preventing further processing.
 - File:** STAPF (Sales Statistics File)
 - Fields:** b_feil (Error Flag)
 - Condition:** If any validation fails, the error flag is set to *on, and the program will not proceed to the next steps.
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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. SF161R (Sales Statistics Processing Program)

- Trigger:** Called after input validation is successful.
- Logic:** This program processes the sales statistics based on the validated input parameters.
- Impact:** This call acts as a **major logical gateway** for completing the sales statistics registration process.

2. RK500R (Customer Retrieval Program)

- Trigger:** Called when the action field indicates a customer lookup.
- Logic:** This program retrieves customer details based on the firm and customer number.

- Impact:** This is a **critical step** for ensuring valid customer data is used in the registration process.

3. FL500R (Customer Project Retrieval Program)

- Trigger:** Called when the action field indicates a project lookup.

- Logic:** This program retrieves project details based on the firm, customer number, and project number.

- Impact:** This represents the handoff to the next major business function, ensuring that project data is correctly linked to the sales statistics.