

RF010R.MBR

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Business Logic for Bilagsregistrering

This document outlines the business rules that govern the process of "Bilagsregistrering" (Voucher Registration), based on an analysis of the RPG program RF010R. The primary focus is on the validation and processing of voucher entries, including checks against existing records and business rules.

The core logic for voucher registration is contained within the a2taga subroutine in RF010R. This subroutine handles the initial data entry and validation for creating or modifying voucher records, ensuring that all necessary conditions are met before proceeding with the registration.

Order Status and Header Rules

Bilagsregistrering: RBUNL1, RTRANL1, RAA1L1, RTRA1L1

1. Check for Existing Voucher Number

- Logic:** The program checks if the voucher number already exists in the current year for both customer and supplier postings.
- File:** RTRA1L1 (Transaction records)
- Field:** a5biln (Voucher number)
- Condition:** The process will not allow a new entry if a5biln matches an existing record in the same year.

2. Validate Voucher Date

- Logic:** The program validates that the voucher date is not in the future or more than one year in the past.
- File:** RTRA1L1 (Transaction records)
- Field:** a5bdat (Voucher date)
- Condition:** The process will raise an error if a5bdat is greater than the current date or less than one year back.

Configuration and Authorization Rules

1. Check for Valid Account Types

- Logic:** The program verifies that both debit and credit accounts are valid and not both accounts are receivable accounts.
- Files:**
 - RHOVL1 (Account records)
 - RLEVL1 (Supplier records)
- Fields:**
 - w_kont (Account number)
 - w_avde (Department)
- Condition:** The process will not proceed if both w_kont are receivable accounts.

2. Check for Active Company

- Logic:** The program checks if the company associated with the voucher is active.
 - File:** RAA1L1 (Company records)
 - Field:** w_firm (Firm identifier)
 - Condition:** The process will raise an error if the firm is not active.
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Financial and Transactional Rules

1. Validate Amounts

- Logic:** The program checks that the amounts for both debit and credit are valid and not negative.
- File:** RTRA1L1 (Transaction records)
- Fields:**
 - a5belØ (Amount)
 - a5valb (Foreign amount)
- Condition:** The process will raise an error if either a5belØ or a5valb is negative.

2. Check for Zero Amounts

- Logic:** The program ensures that at least one of the amounts (either in local currency or foreign currency) is provided.
 - File:** RTRA1L1 (Transaction records)
 - Condition:** The process will not allow submission if both amounts are zero.
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Special Conditions (Program-Specific)

1. Duplicate Entry Check (RF010R)

- Logic:** The program checks if the user is attempting to duplicate an entry that already exists in the system.
- File:** RTRA1L1 (Transaction records)
- Field:** a5biln (Voucher number)
- Condition:** The process will raise an error if the voucher number already exists in the current year.

2. Currency Validation (RF010R)

- Logic:** The program checks if the currency code provided is valid and exists in the currency table.
 - File:** RA16L1 (Currency records)
 - Fields:**
 - a5valk (Currency code)
 - Condition:** The process will raise an error if a5valk does not match any existing currency codes.
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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. RF011C (Label Printing Program)

- Trigger:** Called when a voucher is registered or modified.
- Logic:** This program generates labels for the registered vouchers.
- Impact:** This call ensures that all registered vouchers are appropriately labeled for tracking and identification.

2. RS701R (Voucher Code Validation)

- Trigger:** Called to validate the voucher code entered by the user.
- Logic:** This program checks if the voucher code exists and is valid.
- Impact:** This validation step is crucial to ensure that only valid codes are processed, preventing errors in financial reporting.

3. RA505R (Currency Code Validation)

- Trigger:** Called to validate the currency code associated with the voucher.
- Logic:** This program checks if the currency code exists in the currency table.
- Impact:** Ensures that all financial transactions are recorded in valid currencies, maintaining data integrity.

Use clear, business-friendly language. Fill in all sections with details from the code. Output only the Markdown.