

RE109R.MBR

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Business Logic for Account Update Process

This document outlines the business rules that govern the process of updating accounts from external systems, based on an analysis of the RPG program RE109R. The primary focus is on the validation and updating of account records.

The core logic for updating accounts is contained within the main processing logic of the program. The program reads account data, validates it against certain criteria, and updates or writes records accordingly.

Account Validation and Update Rules

Account Update Process: rhovlu, raa1l1

1. Check Firm and Account Validity

- **Logic:** The process checks if the account's firm and account number are valid against predefined limits.
- **File:** rhovlu (Account volume file)
- **Field:** rhfirm, rhkont
- **Condition:** The process will not proceed if rhfirm does not equal l_firm or if rhkont exceeds ra1hkt.

2. Assign Values from Input Record

- **Logic:** The program assigns various fields from the input record to local working variables for further processing.
- **File:** rhovlu (Account volume file)
- **Fields:** rhfirm, rhkont, rhspes, rhavde, rhtext, rhtxt2, rhsprk, rhmvak, rhbnØk, rhproj, rhvalk, rhmvaø, rhmvag, rhavdk, rhmngd, rhnØkk, rhalfa
- **Condition:** This assignment occurs after the initial validity check.

Update Logic Rules

1. Update Existing Account Record

- **Logic:** If an existing account record is found, the program updates the relevant fields with new values.
- **File:** rhovlu (Account volume file)
- **Fields:** rhtext, rhtxt2, rhsprk, rhmvak, rhbnØk, rhproj, rhvalk, rhmvaø, rhmvag, rhavdk, rhmngd, rhnØkk, rhalfa
- **Condition:** The update occurs if the account record is found in the database.

2. Insert New Account Record

- **Logic:** If no existing account record is found, a new record is created with the provided values.
- **File:** rhovlu (Account volume file)
- **Condition:** This action is taken if the account record is not found during the update check.

Special Conditions (Program-Specific)

1. User Tracking (RE109R)

• **Logic:** The program tracks the user who initiated the update process and the timestamp of the operation.

• **File:** rhovlu (Account volume file)

• **Fields:** rheusr, rhodat, rhotim

• **Condition:** The user and timestamp are recorded during both update and insert operations.

2. Alpha Field Conversion to Uppercase

• **Logic:** The program converts the alpha field to uppercase before processing.

• **File:** rhovlu (Account volume file)

• **Field:** rhalfa

• **Condition:** This conversion occurs regardless of whether the record is being updated or inserted.

Subprogram Calls Affecting Logic

Beyond direct file checks, several external subprograms are called that play a significant role in the workflow.

1. RE110R (Account Update Program)

• **Trigger:** This program is called to handle the update logic for accounts.

• **Logic:** It processes account updates based on the input data and performs validation checks.

• **Impact:** This call acts as a **major logical gateway** for updating account information.

2. raa1I1 (Account Status Code Program)

• **Trigger:** This program is called to retrieve status codes related to accounts.

• **Logic:** It provides necessary status information that influences the account update process.

• **Impact:** This is a **descriptive filtering step** that ensures only valid statuses are considered.

3. rhovlu (Account Volume Retrieval)

• **Trigger:** This program is called to retrieve existing account records for validation.

• **Logic:** It checks if an account already exists in the database.

• **Impact:** This represents the handoff to the next major business function, ensuring data integrity before updates.