

# RE109R.MBR

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## Business Logic for Account Update from External Systems

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 based on specific criteria.

The core logic for updating accounts is contained within the main processing loop in the RE109R program. The program reads account data, validates it against certain criteria, and either updates existing records or writes new records to the database.

## Account Validation and Update Rules

**Account Update Process:** rhovlu, raa111

### 1. Check Company and Account Validity

- Logic:** The program checks if the company code (rhfirm) matches the local firm code (l\_firm) and if the account number (rhkont) is within valid limits.
- File:** rhovlu (Account Validation File)
- Field:** rhfirm, rhkont
- Condition:** The process will not proceed if rhfirm is not equal to l\_firm or if rhkont exceeds the defined limits.

### 2. Assign Values from Input to Working Variables

- Logic:** The program assigns values from the read record to working variables for further processing.
- File:** rhovlu (Account Validation File)
- Fields:** w\_kont, w\_spes, w\_avde, w\_text, w\_txt2, w\_sprk, w\_mvak, w\_bnØk, w\_proj, w\_valk, w\_mvao, w\_mvag, w\_avdk, w\_mngd, w\_nØkk, w\_alfa
- Condition:** This assignment occurs after confirming the validity of the company and account.

## Update Logic and Conditions

### 1. Update Existing Account Record

- Logic:** If the account already exists in the rhovlu file, the program updates the existing record with new values.
- File:** rhovlu (Account Validation File)
- Fields:** rhtext, rhtxt2, rhsprk, rhmvak, rhbnØk, rhproj, rhvalk, rhmvao, rhmvag, rhmngd, rhnØkk, rhalfa
- Condition:** The update occurs if the record is found in the rhovlu file.

### 2. Insert New Account Record

- Logic:** If the account does not exist, a new record is written to the rhovlu file.
- File:** rhovlu (Account Validation File)
- Condition:** This occurs if the record is not found during the chain operation.

# Special Conditions (Program-Specific)

## 1. Time and User Tracking

- Logic:** The program records the current time and the user who initiated the update for both existing and new records.
- File:** rhovlu (Account Validation File)
- Fields:** rhedat, rhetim, rheusr, rhodat, rhotim, rhousr
- Condition:** This is executed during both the update and insert operations to maintain an audit trail.

## 2. Alpha Field Conversion

- Logic:** The program converts the alpha search field (rhalfa) to uppercase letters for consistency in data entry.
- File:** rhovlu (Account Validation File)
- Field:** rhalfa
- Condition:** This conversion is performed before the record is 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 during the execution of RE109R to handle the actual update logic.
- Logic:** It processes the account update based on the data provided and checks for any discrepancies.
- Impact:** This call acts as a **major logical gateway** for ensuring that account updates are performed correctly.

## 2. LDA (Local Data Area)

- Trigger:** The program initializes values from the local data area at the start of the program.
- Logic:** It retrieves the firm number and name for processing.
- Impact:** This ensures that the program has the necessary context for the updates being performed.

## 3. Chain Operations

- Trigger:** The program performs chain operations to check for existing records in the rhovlu and raa111 files.
- Logic:** It determines whether to update an existing record or create a new one based on the presence of the key.
- Impact:** This represents the handoff to the next major business function of either updating or inserting account records.

This documentation provides a comprehensive overview of the business logic governing the account update process in the RE109R RPG program.