

# RE109R.MBR

**Path:** NXCLOUD/rpgsrc/RE109R.MBR **Generated:** 2026-01-08 15:43:00 **Processing Time:** 10570ms

## 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 logic that validates and updates account records.

The core logic for updating accounts is contained within the main processing logic of the program, which checks the conditions for the firm and account, processes the data, and either updates or writes new records to the database.

## Account Validation and Update Rules

**Account Update Process:** rhovlu, raa111

### 1. Firm and Account Check

- Logic:** The process verifies that the firm and account are valid. If the firm does not match the expected firm or if the account exceeds the defined limits, the process will skip the update.
- File:** rhovlu (Account values)
- Field:** rhfirm, rhkont
- Condition:** "The process will not proceed if rhfirm is not equal to l\_firm or if rhkont is greater than ra1hkt."

### 2. Data Assignment

- Logic:** If the firm and account checks pass, the program assigns various fields from the account record to working storage variables for further processing.
- File:** rhovlu (Account values)
- Field:** rhfirm, rhkont, rhspes, rhavde, rhtext, rhtxt2, rhsprk, rhmvak, rhbnØk, rhproj, rhvalk, rhmvao, rhmvag, rhavdk, rhmngd, rhnØkk, rhalfa
- Condition:** "This assignment occurs only after successful validation of the firm and account."

## Field Update Rules

### 1. Conditional Field Updates

- Logic:** The program updates specific fields in the account record only if the corresponding working storage variables are not blank or zero.
- Files:**
  - rhovlu (Account values)
- Fields:**
  - rhsprk, rhmvak, rhbnØk, rhproj, rhvalk, rhmvao, rhmvag, rhavdk, rhmngd, rhnØkk, rhalfa
- Condition:** "Each field is updated only if its corresponding working variable is not blank or zero."

## Record Write and Update Logic

### 1. Record Update or Write

- Logic:** After processing, if the account record is found in the rhovlu file, it is updated; otherwise, a new record is written.

- File:** rhovlu (Account values)
- Condition:** "If the record is found, it is updated; if not found, a new record is written."

## 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 update accounts based on external system data.
- Logic:** It processes the incoming data, validates it, and updates the account records accordingly.
- Impact:** "This call acts as a **major logical gateway** for updating account information from external systems."

### 2. LDA (Local Data Area Initialization)

- Trigger:** This program initializes local data areas needed for processing.
- Logic:** It sets up necessary variables and initial conditions for the account update process.
- Impact:** "This is a **critical setup step** that ensures all required data is available for processing."

### 3. Chain Operations

- Trigger:** The program uses chain operations to access existing records in the rhovlu and raa111 files.
- Logic:** It retrieves records based on keys defined for the firm and account.
- Impact:** "These operations are essential for determining whether to update existing records or create new ones."