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 conditions and fields.

The core logic for updating accounts is contained within the main processing logic of the program, where it checks the validity of the firm and account, retrieves necessary data, and either updates existing records or creates new ones.

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Account Validation and Update Rules

Account Update Process: rhovlu, raa1l1

1. Firm and Account Check

•**Logic:** The process checks if the firm and account are valid against predefined limits. If the firm does not match or the account exceeds the allowed limits, the process will skip the record.

•**File:** rhovlu (Account values)

•**Field:** rhfirm, rhkont

•**Condition:** "The process will not select a record if rhfirm is not equal to l_firm or rhkont exceeds ra1hkt."

2. Data Assignment

•**Logic:** If the firm and account are valid, the program assigns various fields from the input record to working 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:** "The assignment occurs if the firm and account checks are passed."

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Field Update Rules

1. Conditional Field Updates

•**Logic:** The program updates specific fields in the account record only if the corresponding working 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."

2. Alpha Field Conversion

•**Logic:** The program converts the rhalfa field to uppercase letters for consistency.

•**File:** rhovlu (Account values)

- **Field:** rhalfa
- **Condition:** "This conversion is applied after all assignments and checks."

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Record Write and Update Logic

1. Record Update or Insert

- **Logic:** If the account record is found, it is updated; otherwise, a new record is written to the file.
- **File:** rhovlu (Account values)
- **Condition:** "If the account record is found, it updates the record; if not found, it writes a new record."

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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. RE110R (Account Update Program)

- **Trigger:** This program is called during the execution of RE109R to perform the actual update of account records.
- **Logic:** It processes the account data and applies any necessary business rules for updating the records.
- **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 retrieves firm information from the local data area at the beginning of the process.
- **Logic:** It initializes the firm number and name for the current session.
- **Impact:** "This ensures that the correct firm context is maintained throughout the account update process."

3. Chain Operations

- **Trigger:** The program uses chain operations to access existing records in the rhovlu and raa1l1 files.
- **Logic:** It checks for the existence of records based on keys defined in the program.
- **Impact:** "This represents the handoff to the next major business function, ensuring that updates are only made to existing records."

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This documentation provides a comprehensive overview of the business logic implemented in the RE109R program, detailing how account updates are handled based on specific conditions and rules.