

# RA107R.MBR

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# Business Logic for RA107R

This document outlines the business rules that govern the maintenance of department records, based on an analysis of the RPG program `RA107R`. The primary focus is on the conditions that will **block** an operation from being processed.

The core logic for maintaining department records is contained within the `xc2bld` subroutine in `RA107R`. A department record must pass all the following checks to be processed.

## Order Status and Header Rules

1. **Department Code Validation**

**Logic:** The department code (`C1GKOD`) must not be zero. If it is zero, the operation is blocked, and the user is prompted to enter a valid department code.

**File:** `RA07LR` (Department Master File)

**Field:** `C1GKOD`

**Condition:** The process will not proceed if `C1GKOD = 0`. This ensures that a valid department code is provided.

2. **Duplicate Department Check**

**Logic:** The system checks if the department code already exists in the `RA07LR` file. If it does, the user is prompted with a message, and the operation is blocked unless the user chooses to overwrite or cancel.

**File:** `RA07LR` (Department Master File)

**Field:** `RA07LR\_GKOD`

**Condition:** The process will not proceed if `CHAIN RA07LR\_KEY` finds an existing record with the same `RA07LR\_GKOD`. This prevents duplicate department codes.

## Configuration and Authorization Rules

3. **Postal Code Validation**

**Logic:** If a postal code (`C2GPNR`) is provided, the system validates it by calling the external program `RS730R`. If the postal code is invalid, the operation is blocked, and the user is prompted to correct it.

**File:** `RA07LR` (Department Master File)

**Field:** `C2GPNR`

**Condition:** The process will not proceed if `P\_RETK` returned from `RS730R` is not `BLANK`. This ensures that only valid postal codes are accepted.

4. **Delivery Type Validation**

**Logic:** If a delivery type (`C2GLTY`) is provided, the system validates it by calling the external program `RY500C`. If the delivery type is invalid, the operation is blocked, and the user is prompted to correct it.

**File:** `RA07LR` (Department Master File)

**Field:** `C2GLTY`

**Condition:** The process will not proceed if the delivery type is not valid as determined by `RY500C`. This ensures that only valid delivery types are accepted.

## Financial and Transactional Rules

5. **Field Validation for Mandatory Fields**

**Logic:** The department description (`C2GTXF`) must not be blank. If it is blank, the

operation is blocked, and the user is prompted to enter a valid description.

- \* \*\*File:\*\* `RA07LR` (Department Master File)

- \* \*\*Field:\*\* `C2GTX`

- \* \*\*Condition:\*\* The process will not proceed if `C2GTX = \*BLANK`. This ensures that every department has a meaningful description.

## ## Special Conditions (Program-Specific)

### 6. \*\*Subfile Record Selection\*\*

- \* \*\*Logic:\*\* When navigating or updating subfile records, the system ensures that only records matching the current firm (`W\_FIRM`) are processed. If a record does not match the firm, it is skipped.

- \* \*\*File:\*\* `RA07L1`, `RA07L2` (Subfile Data Files)

- \* \*\*Field:\*\* `RAGFIR`

- \* \*\*Condition:\*\* The process will not include records where `RAGFIR <> W\_FIRM`. This ensures that only records relevant to the current firm are displayed or modified.

### 7. \*\*Deletion Validation\*\*

- \* \*\*Logic:\*\* Before deleting a record, the system verifies that the record exists in the `RA07LR` file. If the record does not exist, the deletion is blocked.

- \* \*\*File:\*\* `RA07LR` (Department Master File)

- \* \*\*Field:\*\* `RA07LR\_GKOD`

- \* \*\*Condition:\*\* The process will not delete a record if `CHAIN RA07LR\_KEY` does not find a matching record. This prevents accidental deletion of non-existent records.

## ## Subprogram Calls Affecting Logic

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

### 1. \*\*`RS730R` (Postal Code Validation)\*\*

- \* \*\*Trigger:\*\* Called when a postal code (`C2GPNR`) is entered or modified.

- \* \*\*Logic:\*\* Validates the postal code and returns the corresponding city name (`P\_STED`) or an error code (`P\_RETK`).

- \* \*\*Impact:\*\* Blocks the process if the postal code is invalid (i.e., `P\_RETK <> \*BLANK`).

### 2. \*\*`RY500C` (Delivery Type Validation)\*\*

- \* \*\*Trigger:\*\* Called when a delivery type (`C2GLTY`) is entered or modified.

- \* \*\*Logic:\*\* Validates the delivery type and returns a description (`P\_LTXT`).

- \* \*\*Impact:\*\* Blocks the process if the delivery type is invalid.

### 3. \*\*`AF010R` (Postal Code Lookup)\*\*

- \* \*\*Trigger:\*\* Called when the user requests a lookup for a postal code.

- \* \*\*Logic:\*\* Retrieves the postal code and corresponding city name.

- \* \*\*Impact:\*\* Facilitates user input but does not directly block the process.

### 4. \*\*`XC1MSG` (Duplicate Record Message)\*\*

- \* \*\*Trigger:\*\* Called when attempting to create a record with a duplicate department code.

- \* \*\*Logic:\*\* Displays a message prompting the user to overwrite or cancel.

- \* \*\*Impact:\*\* Blocks the process unless the user chooses to overwrite.

### 5. \*\*`XD1WIN` (Delete Confirmation)\*\*

- \* \*\*Trigger:\*\* Called when a delete operation is initiated.

- \* \*\*Logic:\*\* Displays a confirmation window for the delete action.

- \* \*\*Impact:\*\* Ensures that deletions are intentional and prevents accidental data loss.

### 6. \*\*`XC2BLD` (Record Maintenance)\*\*

- \* \*\*Trigger:\*\* Called during the creation, update, or view of a department record.

- \* \*\*Logic:\*\* Handles the main logic for maintaining department records, including validation and updates.

- \* \*\*Impact:\*\* Central to the program's functionality; blocks invalid operations.