

RA107R.MBR

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Business Logic for RA107R

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

The core logic for department maintenance 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. **Validation of Department Code**

* **Logic:** The department code (`clgkod`) must not be zero. If it is zero, the process will block and prompt the user to enter a valid department code.

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

* **Field:** `RA07LR_GKOD`

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

2. **Duplicate Department Code Check**

* **Logic:** The department code (`clgkod`) must not already exist in the `RA07LR` file. If it exists, the process will block and display a message to the user.

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

* **Field:** `RA07LR_GKOD`

* **Condition:** The process will not proceed if `RA07LR_GKOD` is found in the `RA07LR` file. This prevents duplicate department records.

Configuration and Authorization Rules

3. **Validation of Description**

* **Logic:** The description (`c2gtxt`) must not be blank. If it is blank, the process will block and prompt the user to enter a valid description.

* **File:** `RA07LU` (Department Update File)

* **Field:** `RAGTXT`

* **Condition:** The process will not proceed if `c2gtxt = *BLANK`. This ensures that every department record has a meaningful description.

4. **Validation of Postal Code**

* **Logic:** If a postal code (`c2gpn`r) is provided, it must be valid and exist in the external postal code validation program `RS730R`. If the postal code is invalid, the process will block and prompt the user

to correct it.

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* **File:** External validation via `RS730R`
* **Field:** `C2GPNR`
* **Condition:** The process will not proceed if `p_retk <> *BLANK` after calling `RS730R`. This ensures that the postal code is valid.
## Financial and Transactional Rules
5. **Validation of Delivery Type**
* **Logic:** If a delivery type (`c2glty`) is provided, it must be validated against the external delivery type validation program `RY500C`. If the delivery type is invalid, the process will block and prompt the user to correct it.
* **File:** External validation via `RY500C`
* **Field:** `C2GLTY`
* **Condition:** The process will not proceed if the delivery type is invalid as determined by `RY500C`. This ensures that the delivery type is recognized.
## Special Conditions (Program-Specific)
6. **Blocking on Subfile Navigation**
* **Logic:** Subfile navigation is blocked if the subfile (`B1SFL`) is empty or if the current record number (`w_curn`) is zero.
* **File:** `B1SFL` (Subfile for Department Records)
* **Field:** `W_CURRN`
* **Condition:** The process will not proceed if `w_curn = 0`. This ensures that subfile navigation is only allowed when records are present.
7. **Blocking on Record Deletion**
* **Logic:** A record cannot be deleted if it does not exist in the `RA07LU` file.
* **File:** `RA07LU` (Department Update File)
* **Field:** `RA07LU_GKOD`
* **Condition:** The process will not proceed if `RA07LU_GKOD` is not found in the `RA07LU` file. This ensures that only existing records can be deleted.
## 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 Program)**
* **Trigger:** Called when a postal code (`c2gpn`r) is entered.
* **Logic:** Validates the postal code and retrieves the corresponding city name (`p_sted`).
* **Impact:** Blocks processing if the postal code is invalid (`p_retk <> *BLANK`).
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2. **`RY500C` (Delivery Type Validation Program)**
* **Trigger:** Called when a delivery type (`c2glty`) is entered.
* **Logic:** Validates the delivery type and retrieves the corresponding description (`p_ltxt`).
* **Impact:** Blocks processing if the delivery type is invalid.

3. **`AF010R` (Postal Code Inquiry Program)**
* **Trigger:** Called when the user requests additional information about a postal code (`c2gpn`.
* **Logic:** Provides detailed information about the postal code.
* **Impact:** Enhances user input validation but does not directly block processing.

4. **`XC1MSG` (Duplicate Record Message Display)**
* **Trigger:** Called when a duplicate department code (`clgkod`) is detected.
* **Logic:** Displays a message to the user and prompts for corrective action.
* **Impact:** Blocks processing until the user resolves the duplicate issue.

5. **`XD1WIN` (Record Deletion Confirmation)**
* **Trigger:** Called when the user attempts to delete a record.
* **Logic:** Confirms the deletion and removes the record from the `RA07LU` file.
* **Impact:** Blocks processing if the record does not exist.

6. **`XK1WIN` (Record Copying Confirmation)**
* **Trigger:** Called when the user attempts to copy a record.
* **Logic:** Ensures the copied record does not already exist and prompts for corrective action if it does.
* **Impact:** Blocks processing if the copied record is a duplicate.