

VA540R.MBR

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Business Logic for VA540R

This document outlines the business rules that govern the processing of subfiles and database records in the RPG program `VA540R`. The primary focus is on the conditions that will ****block**** an order or record from being processed or displayed in the subfile.

The core logic for subfile processing and database interaction is contained within the `subfile`, `crt_subfile`, and `bck_subfile` subroutines in `VA540R`. A record must pass all the following checks to be processed and displayed in the subfile.

Order Status and Header Rules

1. ****Firm Validation****

* ****Logic:**** The system ensures that the firm (`w_firm`) associated with the record matches the firm parameter (`vaifir`) before processing the record.

* ****File:**** `VINFL1` (Information Type File)

* ****Field:**** `VAIFIR`

* ****Condition:**** The process will not include a record if `VAIFIR` does not match the firm parameter (`w_firm`). This ensures that only records for the specified firm are processed.

2. ****End of File Check****

* ****Logic:**** The system stops processing records when the end of the file is reached.

* ****File:**** `VINFL1` and `VINFL2` (Information Type and Description Files)

* ****Field:**** N/A

* ****Condition:**** The process will stop if `%EOF` is true, indicating that there are no more records to process.

Configuration and Authorization Rules

3. ****Subfile Page Size Validation****

* ****Logic:**** The system calculates the subfile page size (`w_spge`) and ensures that the number of records displayed does not exceed this limit.

* ****File:**** N/A

* ****Field:**** `W_SPGE`

* ****Condition:**** The subfile will not display more records than the defined page size (`w_spge`), which is initialized to 8 records per page (`c_sfil`).

4. ****Subfile Record Number Validation****

* ****Logic:**** The system ensures that the subfile record number

(`w_srrn`) is within the valid range before processing.

* **File:** N/A

* **Field:** `W_SRRN`

* **Condition:** The subfile processing will not proceed if `w_srrn` exceeds the page size (`w_spge`).

Financial and Transactional Rules

5. **Key Positioning for Information Type**

* **Logic:** The system positions the database cursor using the key list (`vinfl1_key`) for the information type (`vinfl1_ityp`).

* **File:** `VINFL1` (Information Type File)

* **Field:** `VINFL1_ITYP`

* **Condition:** The process will not proceed if the key positioning (`SETLL`) for `vinfl1_key` fails, indicating that no matching records exist for the specified information type.

6. **Key Positioning for Description**

* **Logic:** The system positions the database cursor using the key list (`vinfl2_key`) for the description (`vinfl2_itxt`).

* **File:** `VINFL2` (Description File)

* **Field:** `VINFL2_ITXT`

* **Condition:** The process will not proceed if the key positioning (`SETLL`) for `vinfl2_key` fails, indicating that no matching records exist for the specified description.

Special Conditions (Program-Specific)

7. **Subfile Clear and Rebuild**

* **Logic:** The system clears the subfile (`clr_subfile`) and rebuilds it (`crt_subfile`) whenever the user requests a refresh or navigates to a new page.

* **File:** N/A

* **Field:** N/A

* **Condition:** The subfile is cleared and rebuilt if the user presses a specific function key (e.g., `*IN10` for refresh or `*IN11` for back navigation).

8. **Record Selection**

* **Logic:** The system allows the user to select a record from the subfile by setting the `blvalg` field to 1.

* **File:** `VINFL1` or `VINFL2` (depending on the sequence)

* **Field:** `B1VALG`

* **Condition:** The process will only proceed if `blvalg` is set to 1, indicating that the user has selected a record.

Subprogram Calls Affecting Logic

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

1. **clr_subfile` (Clear Subfile)****
* **Trigger:**** Called when the subfile needs to be cleared, such as during a refresh or navigation.
* **Logic:**** Resets subfile indicators (`IN14`, `IN15`) and clears subfile counters (`w_srrn`, `w_sfrn`, `w_ssrn`, `w_spge`).
* **Impact:**** Ensures that the subfile is empty before new records are loaded.

2. **crt_subfile` (Create Subfile)****
* **Trigger:**** Called to populate the subfile with records from the database.
* **Logic:**** Reads records from `VINFL1` or `VINFL2` based on the sequence (`w_seqe`) and writes them to the subfile.
* **Impact:**** Populates the subfile with valid records for display.

3. **bck_subfile` (Back Navigation)****
* **Trigger:**** Called when the user navigates back a page in the subfile.
* **Logic:**** Reads records in reverse order (`READP`) from `VINFL1` or `VINFL2` and updates the subfile.
* **Impact:**** Allows the user to navigate backward through the subfile.

4. **dsp_subfile` (Display Subfile)****
* **Trigger:**** Called to display the subfile on the screen.
* **Logic:**** Activates display indicators (`IN12`, `IN13`) and formats the subfile for display.
* **Impact:**** Ensures that the subfile is displayed correctly to the user.

5. **posisjoner` (Positioning)****
* **Trigger:**** Called when the user specifies a position (e.g., by entering an information type or description).
* **Logic:**** Positions the database cursor based on the specified key and refreshes the subfile.
* **Impact:**** Ensures that the subfile displays records starting from the specified position.

6. **forny` (Renew Subfile)****
* **Trigger:**** Called when the user requests a refresh of the subfile.
* **Logic:**** Clears and rebuilds the subfile based on the current database position.
* **Impact:**** Ensures that the subfile reflects the latest database state.