

VA540R.MBR

Type: Single File Analysis Path: NXCLOUD/rpgsrc/VA540R.MBR Generated: 2026-01-29 12:15:41

Processing Time: 31556ms

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# Business Logic for VA540R
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This document outlines the business rules that govern the subfile management and user interaction for the program `VA540R`. The primary focus is on the conditions that will **block** an order or record from being displayed or processed in the subfile.

The core logic for subfile handling and user interaction is contained within the `subfile` subroutine in `VA540R`. A record must pass all the following checks to be displayed or processed in the subfile.

Order Status and Header Rules

1. **Firm Validation**

* **Logic:** The record's firm (`VAIFIR`) must match the firm passed as a parameter (`P_FIRM`) to the program. If the firm does not match, the record is skipped.
* **File:** `VINFL1` (Information Type Master) and `VINFL2` (Information Description Master)
* **Field:** `VAIFIR`
* **Condition:** The process will not include a record in the subfile if `VAIFIR` is not equal to `W_FIRM`. This ensures that only records belonging to the specified firm are processed.

2. **End of File Check**

* **Logic:** The program stops processing records when the end of the file (`%EOF`) is reached.
* **File:** `VINFL1` and `VINFL2`
* **Field:** N/A (System EOF indicator)
* **Condition:** The process will terminate reading records if `%EOF` is true. This prevents attempts to process beyond the available data.

Configuration and Authorization Rules

3. **Subfile Page Size**

* **Logic:** The subfile is limited to a maximum number of records per page (`C_SFIL`), and additional records are not displayed until the user navigates to the next page.
* **File:** N/A (Subfile control logic)
* **Field:** `W_SRRN`, `W_SPGE`
* **Condition:** The subfile will not display more records than the defined page size (`C_SFIL`). This ensures proper subfile pagination.

4. **Cursor Positioning**

* **Logic:** The program positions the cursor based on user input or the current record number (`W_FCRN`).
* **File:** N/A (Subfile control logic)
* **Field:** `W_FCRN`
* **Condition:** If `W_FCRN` is not zero, the program positions the cursor to the corresponding record in the subfile. This ensures accurate navigation within the subfile.

Financial and Transactional Rules

5. **Selection Validation**

* **Logic:** The user must select a valid record (`B1VALG = 1`) for further processing.
* **File:** `B1SFL` (Subfile Data)
* **Field:** `B1VALG`

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*   **Condition:** The program will not proceed with processing unless `B1VALG` is set to `1`.
This ensures that only user-selected records are acted upon.

## Special Conditions (Program-Specific)

6. **Positioning by Information Type**
*   **Logic:** If the user specifies an information type (`B2ITYP`), the program positions the database to the corresponding record.
*   **File:** `VINFL1`
*   **Field:** `B2ITYP`
*   **Condition:** The program will position to the record if `B2ITYP` is not equal to `BLANK`. This allows filtering by information type.

7. **Positioning by Description**
*   **Logic:** If the user specifies a description (`B2ITXT`), the program positions the database to the corresponding record.
*   **File:** `VINFL2`
*   **Field:** `B2ITXT`
*   **Condition:** The program will position to the record if `B2ITXT` is not equal to `BLANK`. This allows filtering by description.

8. **Subfile Clearing**
*   **Logic:** The subfile is cleared before being repopulated to ensure no stale data is displayed.
*   **File:** N/A (Subfile control logic)
*   **Field:** `W_SRRN`, `W_SFRN`, `W_SSBN`, `W_SPGE`
*   **Condition:** The subfile is cleared by setting `W_SRRN`, `W_SFRN`, `W_SSBN`, and `W_SPGE` to zero. This ensures that only current data is displayed.

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Subprogram Calls Affecting Logic

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

1. **`FORNY` (Refresh Subfile)**
 - * **Trigger:** Called when the user presses a specific function key (`*IN10`).
 - * **Logic:** Clears the subfile and repopulates it based on the current positioning.
 - * **Impact:** Ensures the subfile reflects the most recent data.
2. **`POSISJONER` (Positioning)**
 - * **Trigger:** Called when the user specifies an information type (`B2ITYP`) or description (`B2ITXT`).
 - * **Logic:** Positions the database to the specified record and repopulates the subfile.
 - * **Impact:** Allows the user to filter and navigate records efficiently.
3. **`CLR_SUBFILE` (Clear Subfile)**
 - * **Trigger:** Called before repopulating the subfile.
 - * **Logic:** Clears all subfile records and resets control variables.
 - * **Impact:** Prevents stale data from being displayed.
4. **`CRT_SUBFILE` (Create Subfile)**
 - * **Trigger:** Called during initial loading or after clearing the subfile.
 - * **Logic:** Reads records from the database and populates the subfile until the page size is reached or the end of the file is encountered.
 - * **Impact:** Ensures the subfile is populated with the correct data.
5. **`BCK_SUBFILE` (Back Page)**
 - * **Trigger:** Called when the user navigates back in the subfile (`*IN11`).
 - * **Logic:** Reads records in reverse to populate the previous page of the subfile.
 - * **Impact:** Enables backward navigation within the subfile.

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6. **`DSP_SUBFILE` (Display Subfile)**
   *  **Trigger:** Called to display the subfile on the screen.
   *  **Logic:** Displays the subfile and positions the cursor as needed.
   *  **Impact:** Ensures the user interface reflects the current state of the subfile.

7. **`INZSR` (Initialization Subroutine)**
   *  **Trigger:** Automatically executed when the program starts.
   *  **Logic:** Initializes program variables, positions the database, and populates the
subfile.
   *  **Impact:** Ensures the program starts in a consistent state.
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