

# VA551R.MBR

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# Business Logic for Order Type Inquiry

This document outlines the business rules that govern the inquiry and processing of order types, based on an analysis of the RPG program `VA551R`. The primary focus is on the conditions that will **block** an order type from being displayed or processed in the subfile.

The core logic for managing subfile records and blocking conditions is contained within the `crt\_subfile` subroutine in `VA551R`. An order type must pass all the following checks to be displayed in the subfile.

## Order Status and Header Rules

1. **Order Type Filtering**

\* **Logic:** Only order types that are valid for invoicing (accumulator type 2) are included in the subfile.

\* **File:** `VOTYLL` (Order Type File)

\* **Field:** `VAOAKK`

\* **Condition:** The subfile will not display an order type if `VAOAKK` is not equal to `2`. This ensures only order types eligible for invoicing are shown.

2. **Firm Validation**

\* **Logic:** The firm associated with the order type must match the firm parameter provided to the program.

\* **File:** `VOTYLL` (Order Type File)

\* **Field:** `VAOFIR`

\* **Condition:** The subfile will not display an order type if `VAOFIR` does not match the value of `W\_FIRM`. This ensures firm-specific filtering.

## Configuration and Authorization Rules

3. **Wildcard Filtering**

\* **Logic:** Order types starting with `\*` are treated as special cases and may be excluded based on specific rules.

\* **File:** `VOTYLL` (Order Type File)

\* **Field:** `VAOTYP`

\* **Condition:** The subfile will not display an order type if the first character of `VAOTYP` is `\*` and the second character does not match the second character of the `B2OTYP` field. This ensures wildcard filtering logic is applied correctly.

## Financial and Transactional Rules

4. **Subfile Record Limits**

\* **Logic:** The subfile has a maximum page size and record limits that

control how many order types can be displayed at once.

\* \*\*File:\*\* `VA551D` (Subfile Display File)

\* \*\*Field:\*\* `W\_SRRN`, `W\_SPGE`

\* \*\*Condition:\*\* The subfile will stop adding records once the relative record number (`W\_SRRN`) reaches the page size (`W\_SPGE`). This prevents overflow in the subfile.

## Special Conditions (Program-Specific)

5. \*\*EOF Handling\*\*

\* \*\*Logic:\*\* If the end of file (EOF) is reached during subfile creation or navigation, no further records are processed.

\* \*\*File:\*\* `VOTYLL` or `VOTYL2` (Order Type Files)

\* \*\*Field:\*\* N/A (EOF condition)

\* \*\*Condition:\*\* The subfile processing will terminate if `%EOF` is true during record reads. This ensures proper handling of file boundaries.

6. \*\*Selection Logic\*\*

\* \*\*Logic:\*\* Users can select an order type from the subfile for further processing.

\* \*\*File:\*\* `VA551D` (Subfile Display File)

\* \*\*Field:\*\* `B1VALG`

\* \*\*Condition:\*\* The program will proceed to finalize the selection if `B1VALG` is equal to `1`. This ensures only selected records are processed.

## Subprogram Calls Affecting Logic

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

1. \*\*`CLR\_SUBFILE` (Clear Subfile)\*\*

\* \*\*Trigger:\*\* Called before creating or refreshing the subfile.

\* \*\*Logic:\*\* Clears all subfile records and resets subfile-related variables (`W\_SRRN`, `W\_SPGE`, etc.).

\* \*\*Impact:\*\* Ensures the subfile is empty before new records are added.

2. \*\*`CRT\_SUBFILE` (Create Subfile)\*\*

\* \*\*Trigger:\*\* Called during initial program setup and when refreshing the subfile.

\* \*\*Logic:\*\* Reads records from `VOTYLL` or `VOTYL2` based on positioning keys and adds them to the subfile.

\* \*\*Impact:\*\* Populates the subfile with valid order types based on filtering rules.

3. \*\*`BCK\_SUBFILE` (Back Subfile)\*\*

\* \*\*Trigger:\*\* Called when navigating backward in the subfile.

\* \*\*Logic:\*\* Reads records in reverse order and repopulates the subfile for the previous page.

\* \*\*Impact:\*\* Allows navigation to previous pages while maintaining

filtering rules.

4. \*\*`POSISJONER` (Position Subfile)\*\*

\* \*\*Trigger:\*\* Called when specific positioning criteria are provided (e.g., order type or description).

\* \*\*Logic:\*\* Sets positioning keys and adjusts subfile records accordingly.

\* \*\*Impact:\*\* Ensures the subfile reflects the requested position criteria.

5. \*\*`DSP\_SUBFILE` (Display Subfile)\*\*

\* \*\*Trigger:\*\* Called to display the subfile on the screen.

\* \*\*Logic:\*\* Handles screen formatting and user interaction with the subfile.

\* \*\*Impact:\*\* Provides the user interface for subfile navigation and selection.