

CO402R.MBR

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# Business Logic for CO402R
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This document outlines the business rules that govern the process of retrieving configuration values for a specific key (`Nokkel`) based on file group (`Filgruppe`), company (`Firma`), and warehouse (`Lager`). This analysis is based on the RPG program `CO402R`. The primary focus is on the conditions that will **block** the retrieval of configuration values.

The core logic for retrieving configuration values is contained within the `CO402R` procedure in `CO402R`. The program evaluates multiple conditions to determine whether a configuration value (`Verdi1`) and additional information (`Verdi2`) can be retrieved. If no match is found, default values are returned.

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## Order Status and Header Rules
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1. **File Group Matching**

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*   **Logic:** The program attempts to retrieve configuration values (`Verdi1` and `Verdi2`) from the `SKTIST` file where the `Filgruppe`, `Firma`, `Lager`, and `Nokkel` fields match the input parameters.  
*     **File:** `SKTIST` (Configuration Data Table)  
*     **Field:** `Filgruppe`  
*     **Condition:** The process will not retrieve a value if no record exists in `SKTIST` where `Filgruppe = p_filgrp`, `Firma = p_firm`, `Lager = p_lager`, and `Nokkel = p_nokkel`. If no match is found, the program proceeds to the next condition.
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## Configuration and Authorization Rules
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2. **Chain Group Matching**

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*   **Logic:** If no match is found for the initial `Filgruppe`, the program calls the external subprogram `GETCHAIN` to retrieve an alternate `Filgruppe` (`w_chain`) and attempts to retrieve configuration values from `SKTIST` using this alternate `Filgruppe`.  
*     **File:** `SKTIST` (Configuration Data Table)  
*     **Field:** `Filgruppe`  
*     **Condition:** The process will not retrieve a value if no record exists in `SKTIST` where `Filgruppe = w_chain`, `Firma = p_firm`, `Lager = p_lager`, and `Nokkel = p_nokkel`. If no match is found, the program proceeds to the next condition.
```

3. **Default File Group Matching**

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*   **Logic:** If no match is found for either the initial `Filgruppe` or the alternate `Filgruppe`, the program attempts to retrieve configuration values from `SKTIST` where `Filgruppe` is blank (''').  
*     **File:** `SKTIST` (Configuration Data Table)  
*     **Field:** `Filgruppe`  
*     **Condition:** The process will not retrieve a value if no record exists in `SKTIST` where `Filgruppe = ''`, `Firma = p_firm`, `Lager = p_lager`, and `Nokkel = p_nokkel`. If no match is found, the program returns default values (`Verdi1 = '0'` and `Verdi2 = *BLANK`).
```

```
## Financial and Transactional Rules
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4. **SQL Error Handling**

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*   **Logic:** The program checks the SQL return code (`sqlcod`) after each database query. If `sqlcod` is not `>= 0` or is `100` (no rows found), the program proceeds to the next condition or returns default values.
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```
*  **File:** `SKTIST` (Configuration Data Table)
*  **Field:** `sqlcod`
*  **Condition:** The process will not retrieve a value if `sqlcod = 100` after all matching attempts. This indicates no matching records were found in the database.

## Special Conditions (Program-Specific)

5. **Default Value Assignment**
*  **Logic:** If no matching records are found after all attempts, the program assigns default values: `Verdil = '0'` and `Verdi2 = *BLANK*`.
*  **File:** Not applicable (default assignment in program logic)
*  **Field:** `Verdil`, `Verdi2`
*  **Condition:** The process will return default values if no matching records are found in `SKTIST` for any of the conditions.
```

Subprogram Calls Affecting Logic

Beyond direct file checks, the program calls an external subprogram that plays a significant role in the workflow.

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1. **`GETCHAIN` (Retrieve Alternate File Group)**
*  **Trigger:** Called when no matching record is found for the initial `Filgruppe` in `SKTIST`.
*  **Logic:** Retrieves an alternate file group (`w_chain`) based on the input `Filgruppe`(`p_filgrp2`).
*  **Impact:** If a valid alternate `Filgruppe` is returned, the program attempts to retrieve configuration values from `SKTIST` using this alternate `Filgruppe`. If no alternate `Filgruppe` is found or no matching records exist, the program proceeds to the next condition or returns default values.
```