

FO410R.MBR

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Business Logic for FO410R

This document outlines the business rules that govern the deletion of orders, based on an analysis of the RPG program `FO410R`. The primary focus is on the conditions that will **block** an order from being deleted.

The core logic for deleting orders is contained within the `FO410R` program. An order must pass all the following checks to be processed for deletion.

Order Status and Header Rules

1. **Order Header Existence**

* **Logic:** The program checks if the order header exists in the `FOHELU` file before proceeding with deletion.

* **File:** `FOHELU` (Order Header Register)

* **Field:** `FOHELU_NUMM`, `FOHELU_SUFF`

* **Condition:** The process will not delete an order if `FOHELU` does not exist for the specified `FOHELU_NUMM` and `FOHELU_SUFF`. This ensures the order header is valid and accessible.

Configuration and Authorization Rules

2. **Order Type Validation**

* **Logic:** The program verifies the `P_TYPE` parameter to ensure it is not `BLANK` before updating the `FDELLU` file.

* **File:** `FDELLU` (Order Deleted Register)

* **Field:** `FYTYPE`

* **Condition:** The program will not update the deleted order register if `P_TYPE` is `BLANK`. This ensures the deletion process is properly categorized.

3. **Company Number Validation**

* **Logic:** The program ensures the company number (`P_FIRM`) is correctly assigned to all keys used in file operations.

* **File:** Multiple files (e.g., `FOHELU`, `FODTLU`, `FOTXLU`)

* **Field:** `W_FIRM`

* **Condition:** The process will not proceed if the company number is invalid or missing. This ensures operations are scoped to the correct company.

Financial and Transactional Rules

4. **Memo Balance Update**

* **Logic:** The program calculates and updates the memo balance (`W_SALD`) and memo balance adjustment (`W_SAL2`) in the customer

register.

* **File:** `FA922R` (Memo Balance Update Program)

* **Field:** `FOTOTR`, `FOTOTS`, `FOBRRA`

* **Condition:** The process will not complete if the memo balance update fails. This ensures financial records are consistent.

5. **General Discounts Control**

* **Logic:** The program verifies the general discount limit before proceeding with deletion.

* **File:** `FOHELU` (Order Header Register)

* **Field:** `FOBRRA`

* **Condition:** The process will not proceed if the discount exceeds the allowable limit. This prevents unauthorized financial adjustments.

Special Conditions (Program-Specific)

6. **Shadow Table Deletion**

* **Logic:** The program deletes entries from the shadow table (`FODMIU`) if the order line exists.

* **File:** `FODMIU` (Order Line Shadow Table)

* **Field:** `FODMIU_NUMM`, `FODMIU_SUFF`, `FODMIU_LINE`

* **Condition:** The process will not delete shadow table entries if the corresponding order line does not exist. This ensures data integrity.

7. **Santander Payment Deletion**

* **Logic:** The program deletes records related to Santander payments if they exist.

* **File:** `RKSJLU` (Santander Payment Status Register)

* **Field:** `RKSJLU_JNUM`, `RKSJLU_JSUF`

* **Condition:** The process will not delete Santander payment records if they are not found. This ensures proper handling of payment-related data.

8. **NOBB Freight Deletion**

* **Logic:** The program deletes records related to NOBB freight if they exist.

* **File:** `FOH2LU` (Order Header Side Table)

* **Field:** `FOHELU_NUMM`, `FOHELU_SUFF`

* **Condition:** The process will not delete NOBB freight records if they are not found. This ensures freight-related data is handled correctly.

9. **Deposit Information Deletion**

* **Logic:** The program deletes deposit information if it exists in the `SDEPLU` file.

* **File:** `SDEPLU` (Deposit Register)

* **Field:** `SDEPLU_NUMM`, `SDEPLU_KUND`, `SDEPLU_TELL`

* **Condition:** The process will not delete deposit information if the

corresponding record is not found. This ensures deposit-related data is preserved.

10. **Transport Logging Deletion**

* **Logic:** The program deletes transport logging information if it exists.

* **File:** `FTRPI2` (Transport Logging Register)

* **Field:** `FTRPI2_RNUM`, `FTRPI2_RSUF`

* **Condition:** The process will not delete transport logging information if the corresponding record is not found. This ensures transport-related data is handled correctly.

Subprogram Calls Affecting Logic

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

1. **`FS711R` (Order Line Deletion Logging)**

* **Trigger:** Called during the deletion of order lines.

* **Logic:** Logs the deletion of order lines for traceability.

* **Impact:** Ensures all deleted order lines are logged for auditing purposes.

2. **`VL001R` (Warehouse Update)**

* **Trigger:** Called when inventory updates are required during order deletion.

* **Logic:** Updates warehouse inventory based on deleted order lines.

* **Impact:** Ensures inventory levels are adjusted correctly.

3. **`FA922R` (Memo Balance Update)**

* **Trigger:** Called to update memo balances after order deletion.

* **Logic:** Adjusts customer memo balances based on deleted order totals.

* **Impact:** Ensures financial records are consistent after deletion.

4. **`VA750R` (Processing Code Validation)**

* **Trigger:** Called during inventory update validation.

* **Logic:** Validates processing codes and determines whether inventory updates should occur.

* **Impact:** Prevents unnecessary inventory updates for certain processing codes.