

FO603R.MBR

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Business Logic for Order Processing and Selection

This document outlines the business rules that govern the order processing and selection from the order register, based on an analysis of the RPG program FO603R. The primary focus is on the validation and selection of order types, as well as the handling of order numbers and associated parameters.

The core logic for order selection is contained within the main processing sections of the FO603R program. The program processes various order types, validates them against existing records, and manages the selection of orders based on user input.

Order Status and Header Rules

Order Processing: FO603D, Rkunl1, Fkprl1, Votyl1, Fohelu, Fohel1, Fohelo, Fplolu, Vinfl1, Fusrl1, Fstsl1, Fntrl2, Fntrl1, Fscnl1, Fodtlr, Sdepl1, Vot1l1

1. Order Type Validation

- Logic:** The program checks if the entered order type exists in the ORDER TYPE REGISTER. If not found, an error indicator is set.
- File:** Votyl1 (Order Type Register)
- Field:** Votyl1_otyp
- Condition:** The process will not proceed if the order type is not found in the register.

2. Order Type Consistency Check

- Logic:** The program ensures that the selected order types do not mix incompatible types. If a mix is detected, an error indicator is set.
- Files:** Votyl1 (Order Type Register)
- Field:** Votyl1_otyp
- Condition:** The process will set an error if both 'valid' and 'invalid' order types are found.

Configuration and Authorization Rules

1. User Authorization Check

- Logic:** The program checks if the user has the necessary permissions to process orders. If not, an error is triggered.
- Files:**
 - Fusrl1 (User Register)
- Fields:**
 - Fusrl1_user (User ID)
- Condition:** The process will not allow order processing if the user does not have the required permissions.

2. Order Number Validation

- Logic:** The program checks that the 'from' order number is filled and that the 'to' order number is greater than or equal to the 'from' order number.

- File:** Fohel1 (Order Header Register)
 - Field:** Fohel1_numm
 - Condition:** The process will not proceed if the 'from' order number is zero or if the 'to' order number is less than the 'from' order number.
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Financial and Transactional Rules

1. Deposit Requirement Check

- Logic:** The program checks if there are any unpaid deposit requirements associated with the order. If so, processing is halted.
- File:** Sdepl1 (Deposit Requirement Register)
- Fields:**
 - Sdepl1_kund (Customer Number)
 - Sdepl1_numm (Order Number)
- Condition:** The process will not allow order processing if there are outstanding deposits.

2. Order Line Existence Check

- Logic:** The program checks if there are any order lines associated with the order. If none exist, the order is flagged for deletion.
 - File:** Fodtlr (Order Line Register)
 - Field:** Fodtlr_numm
 - Condition:** The process will delete the order if no order lines are found.
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Special Conditions (Program-Specific)

1. Order Processing Subroutine (FO603R)

- Logic:** The program processes the selected orders based on the defined criteria and parameters. It handles various selection methods including 'from/to', 'sequence', and 'random'.
- File:** Fohel1 (Order Header Register)
- Field:** Fohel1_numm
- Condition:** The program will execute different logic paths based on the user's selection method.

2. Error Handling and Messaging (FO603R)

- Logic:** The program includes various error handling mechanisms that set indicators based on validation failures, ensuring the user is notified of any issues.
 - File:** Fohel1 (Order Header Register)
 - Fields:** Various fields used for error messaging.
 - Condition:** The program will halt processing and return to the input screen if any validation errors are encountered.
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Subprogram Calls Affecting Logic

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

1. FO605R (Order Processing Subroutine)

- Trigger:** Called when the order selection is confirmed.
- Logic:** This program handles the final processing of selected orders, including printing and updating records.

- Impact:** This call acts as a **major logical gateway** for finalizing order processing.

2. FO410R (Order Deletion Subroutine)

- Trigger:** Called when an order is found to have no associated order lines.

- Logic:** This program handles the deletion of orders that do not meet the criteria for processing.

- Impact:** This is a **critical step** to maintain data integrity by removing invalid orders.

3. RA107R, RK500R, FL500R, VA540R, VA551R (Various Query Subroutines)

- Trigger:** Called based on user input for querying specific data related to departments, customers, and order types.

- Logic:** Each of these programs retrieves and displays relevant information based on the specified criteria.

- Impact:** These calls enhance user interaction by providing necessary data for informed decision-making.

This documentation serves as a comprehensive guide to understanding the business logic implemented in the FO603R program, ensuring clarity in the order processing workflow.