FO100R.MBR

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Business Logic for Order Registration

This document outlines the business rules that govern the order registration process, based on an analysis of the RPG program FO100R. The primary focus is on the validation and processing of customer orders, including checks for order types, customer credit limits, and required fields. The core logic for order registration is contained within the hente_kunde and opdat_ordre subroutines in FO100R. The program processes customer orders by validating input data, checking customer statuses, and updating order records accordingly.

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Order Status and Header Rules

Order Registration: FOHEUR, FOHEURR, FOHEURR, FOHEURR

1. Customer Credit Check

•**Logic:** The program checks if the customer has exceeded their credit limit. If the limit is exceeded, a warning message is generated, and the order cannot be processed unless overridden.

•**File:** FOHEUR (Order Header)

•**Field:** s_gren (Credit Limit)

•**Condition:** "The process will not select a record if s_sald (Current Balance) is greater than s_gren (Credit Limit)."

2. Order Type Validation

•**Logic:** The program ensures that the order type is valid and corresponds to the system code. If the order type is invalid, an error message is displayed.

•**File:** VOTYL1 (Order Type Register)

•**Field:** b1otyp (Order Type)

•**Condition:** "The process will not proceed if vaosys (System Code) is not equal to 0."

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Configuration and Authorization Rules

1. Mandatory Fields Check

•**Logic:** The program checks that all mandatory fields are filled out before allowing the order to be processed. If any required field is missing, an error message is displayed.

•**Files:**

•RKUNL1 (Customer Register)

•FOHEUR (Order Header)

•**Fields:**

•b1navn (Customer Name)

•b1adr1 (Address Line 1)

•**Condition:** "The process will not proceed if b1navn or b1adr1 is blank."

2. Order Type Restrictions for Customers

•**Logic:** Certain customers are restricted to specific order types. If a customer is marked as a 'Tilbudskunde' (Quote Customer), they can only create orders of type 'T'.

- **File:** RKUNL1 (Customer Register)
- **Field:** b1kund (Customer Number)
- **Condition:** "The process will not allow order types other than 'T' for customers with a specific restriction."

Financial and Transactional Rules

1. Handling of Existing Orders

- **Logic:** If an order already exists for the customer, the program will retrieve the existing order details and allow for modifications.
- **File:** FOHEUR (Order Header)
- **Fields:**
- fonumm (Order Number)
- fosuff (Suffix)
- **Condition:** "The process will check if fonumm is not equal to zero to determine if an existing order is being modified."

2. Credit Limit Notification

- **Logic:** If a customer's credit limit is exceeded, the program will notify the user and prevent further processing unless overridden.
- **File:** RKUNL1 (Customer Register)
- **Condition:** "The process will display a warning if s_gren (Credit Limit) is exceeded."

Special Conditions (Program-Specific)

1. Requisition Requirement Notification

- **Logic:** If a customer requires a requisition for orders, the program will check for this condition and notify the user if the requisition field is blank.
- **File:** RKUNL1 (Customer Register)
- **Field:** w_feil_kund (Customer Error Code)
- **Condition:** "The process will display an error if b1rekv (Requisition) is blank for customers that require it."

2. Address Validation

- **Logic:** The program checks if the delivery address is filled out. If not, it will prompt the user to enter the address.
- **File:** RKUNL1 (Customer Register)
- **Field:** b1adr1 (Address Line 1)
- **Condition:** "The process will not proceed if b1adr1 is blank and b1laok (Allow Blank Address) is set to 1."

Subprogram Calls Affecting Logic

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

1. CO402R (Configuration Check Program)

- **Trigger:** This program is called multiple times to check various configuration settings that affect the order processing logic.

•**Logic:** It checks for various flags and settings that influence how the order is processed.

•**Impact:** This call acts as a **major logical gateway**, determining if certain features or restrictions apply to the current order process.

2. FO730R (Order Processing Program)

•**Trigger:** This program is called to finalize the order processing and update the order header and lines.

•**Logic:** It handles the final updates to the order and ensures that all necessary checks have been passed.

•**Impact:** This is a **critical step** in the order registration process, ensuring that all data is correctly saved.

3. RK500R (Customer Lookup Program)

•**Trigger:** This program is called to retrieve customer details based on the customer number.

•**Logic:** It populates the order with relevant customer information.

•**Impact:** This call is essential for ensuring that the order is associated with the correct customer details.

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This documentation provides a comprehensive overview of the business logic for the order registration process in the FO100R RPG program. Each rule and condition is designed to ensure that customer orders are processed accurately and efficiently, adhering to the established business requirements.