

FO100R.MBR

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Business Logic for Order Registration

This document outlines the business rules that govern the registration of offers/orders, based on an analysis of the RPG program FO100R. The primary focus is on the validation and processing logic involved in creating and maintaining orders within the system.

The core logic for order registration is contained within the init_b1bld subroutine in FO100R. The program processes user input, validates order details, and interacts with various data files to ensure that the order can be successfully created or updated.

Order Status and Header Rules

Order Registration: FOHEUR, FOHEURR, FOHELR, RKUNPF, VOTYL1, VINFL1

1. Order Type Validation

- **Logic:** The program checks if the order type has a system code of 0 (Sales/Ofak). If not, the order cannot be processed.
- **File:** VOTYL1 (Order Type Register)
- **Field:** vaosys
- **Condition:** "The order type must have a system code of 0."

2. Customer Credit Check

- **Logic:** If the customer has exceeded their credit limit, the order will be flagged and may require approval.
- **File:** RKUNPF (Customer Register)
- **Field:** s_gren, s_sald
- **Condition:** "The order cannot be processed if the customer's balance exceeds their credit limit."

Configuration and Authorization Rules

1. Requisition Requirement

- **Logic:** If the customer requires a requisition, the order must include a requisition number.
- **File:** RKUNPF (Customer Register)
- **Field:** rkrekv
- **Condition:** "The order must include a requisition number if the customer has this requirement."

2. User Permissions for Customer Creation

- **Logic:** The program checks if the user has permission to create new customers. If not, an error message is displayed.
- **File:** AUSR1 (User Register)
- **Field:** w_ko12
- **Condition:** "Users without permission cannot create customers."

Financial and Transactional Rules

1. Order Date Validation

- **Logic:** The order date must be valid and cannot be in the past.
- **File:** FOHEUR (Order Header Register)
- **Field:** b1bdat
- **Condition:** "The order date must be a valid date and not in the past."

2. Delivery Date Validation

- **Logic:** The delivery date must be valid and cannot be earlier than the order date.
- **File:** FOHEUR (Order Header Register)
- **Field:** b1ldat
- **Condition:** "The delivery date must be greater than or equal to the order date."

Special Conditions (Program-Specific)

1. Offer Creation with Credit Block

- **Logic:** Offers can be created even if the customer has a credit block, but they must be approved through a specific process.
- **File:** RKUNPF (Customer Register)
- **Field:** s_sper
- **Condition:** "Offers can be created despite a credit block, but require approval."

2. Customer Project Requirement

- **Logic:** If the customer has a project requirement, the order must include project details.
- **File:** FKPR1L (Customer Project Register)
- **Fields:** fkpr1_kund, fkpr1_kpro
- **Condition:** "The order must include project details if the customer has a project requirement."

Subprogram Calls Affecting Logic

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

1. FO101R (Order Header Maintenance)

- **Trigger:** Called when maintaining an existing order.
- **Logic:** Updates order header details based on user input.
- **Impact:** Ensures that the order header is correctly updated with the latest information.

2. FO730R (Order Line Processing)

- **Trigger:** Called when processing order lines.
- **Logic:** Handles the addition or modification of order line items.
- **Impact:** This call represents the main processing step for order line items, ensuring they are correctly associated with the order.

3. AA005R (Error Messaging)

- **Trigger:** Called to display error messages based on validation failures.
- **Logic:** Displays user-friendly error messages to guide the user in correcting input errors.
- **Impact:** This is a critical step in user interaction, providing feedback on validation issues.

This documentation provides a comprehensive overview of the business logic associated with the order registration process in the FO100R program. Each rule and condition is designed to ensure data integrity and compliance with business requirements.