

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 of order data, including customer information, order types, and associated business rules.

The core logic for order registration is contained within the init_b1bld subroutine in FO100R. The program processes input from users, checks for validity against various business rules, and updates order records accordingly.

Order Status and Header Rules

Order Registration: FOHEL1 (Order Header)

1. Order Type Validation

- Logic:** The order type must have a system code of 0 (Sales/Ofak) to be valid.
- File:** VOTYL1 (Order Type Register)
- Field:** VOTYL1_OTYP
- Condition:** "The process will not select a record if VOTYL1_SYS is not equal to 0."

2. Customer Credit Check

- Logic:** Orders can be registered even if the customer has a credit block.
- File:** RKKUND (Customer Register)
- Field:** RKKRES
- Condition:** "The process allows registration if RKKRES is not equal to 1."

Configuration and Authorization Rules

1. User Permissions for Customer Creation

- Logic:** Users must have permission to create customers directly from the order system.
- Files:**
- FUSR1 (User Register)
- Fields:**
- FUSR1_USER (User ID)
- Condition:** "The process will not allow customer creation if the user does not have the appropriate permissions."

2. Mandatory Fields for Customer Information

- Logic:** Certain fields must be filled in before an order can be created.
- File:** RKKUND (Customer Register)
- Field:** RKKUND
- Condition:** "The process will not proceed if RKKUND is blank."

Financial and Transactional Rules

1. Credit Limit Check

- Logic:** If the customer's credit limit is exceeded, the order cannot be processed unless overridden.

- File:** RKGRAL (Credit Limits)

- Fields:**

- RKGRAL (Credit Limit)

- RKSALD (Current Balance)

- Condition:** "The process will not allow an order if RKSALD exceeds RKGRAL."

2. Invoice Type Handling

- Logic:** The invoice type must be determined based on the order type and customer settings.

- File:** VOTYL1 (Order Type Register)

- Condition:** "The process will set the invoice type based on the order type defined in the system."

Special Conditions (Program-Specific)

1. Requisition Requirement Notification (FO100R)

- Logic:** If a requisition is required for the customer, a notification will be triggered.

- File:** RKKUND (Customer Register)

- Field:** RKREKV

- Condition:** "The process will notify if RKREKV is set to 1."

2. Delivery Date Validation (FO100R)

- Logic:** The delivery date must be greater than or equal to the order date.

- File:** FOHEUR (Order Header)

- Fields:**

- B1BDAT (Order Date)

- B1LDAT (Delivery Date)

- Condition:** "The process will not allow the order to proceed if B1LDAT is less than B1BDAT."

Subprogram Calls Affecting Logic

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

1. AA005R (Message Display Program)

- Trigger:** Called when user permissions are insufficient for certain actions.

- Logic:** Displays a message to the user regarding permission issues.

- Impact:** This call acts as a **major logical gateway** for user actions.

2. FO730R (Order Processing Program)

- Trigger:** Called during the finalization of order registration.

- Logic:** Updates order details and checks for any outstanding issues.

- Impact:** This is a **destructive filtering step** that ensures all order conditions are met before finalization.

3. FL501R (Customer Project Program)

- Trigger:** Called to retrieve customer project details.

- Logic:** Fetches and updates customer project information based on the current order.

•**Impact:** This represents the handoff to the next major business function of managing customer projects.

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This documentation provides a comprehensive overview of the business logic encapsulated in the FO100R program, focusing on the rules and conditions that govern order registration and processing.