

# 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 logic for validating and processing customer orders within the system.

The core logic for order registration is contained within the init\_b1bld subroutine in FO100R. This subroutine initializes the order entry screen, processes user input, and validates the data against various business rules.

### Order Status and Header Rules

**Order Registration:** FOHEUR, FOHEURR

#### 1. Customer Credit Check

- **Logic:** The system checks if the customer has exceeded their credit limit. If the limit is exceeded, the order may still be created if the order type is "T" (offer).
- **File:** FOHEUR (Order Header)
- **Field:** s\_gren (Credit Limit)
- **Condition:** "If the customer's balance exceeds the credit limit, and the order type is not 'T', the order cannot be processed."

#### 2. Order Type Validation

- **Logic:** The order type must have a system code of 0 (Sales/Ofak). If the order type does not meet this requirement, the order will not be processed.
- **File:** VOTYL1 (Order Type Register)
- **Field:** vaosys (System Code)
- **Condition:** "The order type must have a system code of 0."

### Configuration and Authorization Rules

#### 1. User Permissions for Customer Creation

- **Logic:** Users must have permission to create customers directly from the order system. If not, an error message is displayed.
- **File:** USRL1 (User Register)
- **Field:** w\_ko12 (User Permission)
- **Condition:** "If the user does not have permission, the process will not allow customer creation."

#### 2. Mandatory Fields for Customer Projects

- **Logic:** If the customer requires a project, the system will enforce that a project is selected before proceeding with the order.
- **File:** RKU2L1 (Customer Project)
- **Field:** b\_kpro (Project Requirement)
- **Condition:** "If the customer requires a project, the order cannot be processed without it."

# Financial and Transactional Rules

## 1. Tax Calculation for Orders

• **Logic:** The system retrieves the applicable tax percentage for calculating the memo balance including VAT.

• **File:** RS205R (Tax Rate)

• **Fields:**

• w\_mvas (Tax Amount)

• w\_mvat (Tax Rate)

• **Condition:** "The tax rate must be retrieved successfully to calculate the total order value."

## 2. Handling of Discounts

• **Logic:** Discounts are applied based on customer agreements. If the customer is a cash customer, discounts may not apply.

• **File:** RKUNL1 (Customer Register)

• **Condition:** "If the customer is a cash customer, the system will not apply discounts."

# Special Conditions (Program-Specific)

## 1. Order Type Restrictions for Cash Customers (FO100R)

• **Logic:** Cash customers can only create orders of type 'T'. If an attempt is made to create a different type, an error is generated.

• **File:** RKUNL1 (Customer Register)

• **Field:** b1lkun (Customer Type)

• **Condition:** "If the customer is a cash customer, the order type must be 'T'."

## 2. Requisition Requirement Notification (FO100R)

• **Logic:** If the customer requires a requisition, the system will prompt the user to enter a requisition number before proceeding.

• **File:** RKUNL1 (Customer Register)

• **Field:** w\_feil\_kund (Error Code)

• **Condition:** "If the customer has a requisition requirement and it is not provided, the process will not continue."

# Subprogram Calls Affecting Logic

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

## 1. AA005R (User Message Display)

• **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 authorization.

## 2. FO730R (Order Processing)

• **Trigger:** Called during the order creation process to handle order line updates.

• **Logic:** Updates order details and processes any changes made during order entry.

• **Impact:** This is a **critical step** in ensuring that all order details are correctly captured and stored.

### **3. FL501R (Customer Information Retrieval)**

- Trigger:** Called to retrieve customer information based on the customer ID.
- Logic:** Fetches customer details such as name, address, and contact information.
- Impact:** This call ensures that accurate customer information is used during order processing.

This documentation provides a comprehensive overview of the business logic implemented in the FO100R program for order registration. Each rule and condition is designed to ensure that orders are processed accurately and in compliance with business requirements.