

# LO101R.MBR

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## Business Logic for LO101R

This document outlines the business rules that govern the registration of orders and purchases, based on an analysis of the RPG program LO101R. The primary focus is on the logic that handles the retrieval and validation of order details, including supplier information, payment terms, and item details.

The core logic for processing orders is contained within the various subroutines in LO101R. The program retrieves data from several files, validates the information, and updates the order header as necessary.

### Order Status and Header Rules

**LO101R:** LOHEL1, LOHELU, SIHEL1, RLTRL7, VMVAL1, VVARL1, VLTYL1, LODCLU, RP1PL1, SIHELA, RLEVL1, LODTLU

#### 1. Retrieve Order Header Information

- **Logic:** The program retrieves order header details from the LOHEL1 file based on the order number and suffix. If found, it populates various fields with the retrieved data.
- **File:** LOHEL1 (Order Header Register)
- **Field:** LOMKOD, LOAVDE, LOINNK, LOLAGE, LOBETB, LOVALK, LOSPED, LOLMTX, LOLBET
- **Condition:** The order header is only retrieved if the order number and suffix match an existing record.

#### 2. Update Order Header

- **Logic:** After validating the retrieved data, the program updates the order header with any changes made by the user.
- **File:** LOHELU (Order Header Update)
- **Field:** LOMKOD, LOAVDE, LOINNK, LOLAGE, LOBETB, LOVALK, LOSPED, LOLMTX, LOLBET
- **Condition:** The update occurs if the order header record is found.

### Configuration and Authorization Rules

#### 1. Validation of Department

- **Logic:** The program checks if the department code exists in the KODE-REGISTER. If not found, it sets an error indicator.
- **Files:**
  - KODE-REGISTER (Department Codes)
- **Fields:**
  - C2AVDE (Department Code)
- **Condition:** If the department code is not valid, an error is triggered.

#### 2. Validation of Buyer

- **Logic:** Similar to the department check, the program validates the buyer code against the KODE-REGISTER.
- **File:** KODE-REGISTER (Buyer Codes)
- **Field:** C2INNK (Buyer Code)
- **Condition:** An error is triggered if the buyer code does not exist.

## Financial and Transactional Rules

### 1. Invoice Date Validation

- **Logic:** The program checks if the invoice date is valid. If the date is in the future, an error message is displayed.
- **File:** LOHELU (Order Header Update)
- **Fields:**
- C3FKDA (Invoice Date)
- **Condition:** If the invoice date is greater than the current date, an error is triggered.

### 2. Payment Terms Validation

- **Logic:** The program checks if the payment terms code exists in the KODE-REGISTER. If not found, it sets an error indicator.
- **File:** KODE-REGISTER (Payment Terms)
- **Field:** C2BETB (Payment Terms Code)
- **Condition:** An error is triggered if the payment terms code does not exist.

## Special Conditions (Program-Specific)

### 1. Check for Duplicate Invoice Number (LO101R)

- **Logic:** The program checks if the invoice number has been used before for the same supplier. If it has, an error message is displayed.
- **File:** SIHELA (Historical Invoice Data)
- **Field:** C3SFAK (Invoice Number)
- **Condition:** If the invoice number matches a historical record, an error is triggered.

### 2. Check for Valid Project Code (LO101R)

- **Logic:** The program checks if the project code exists in the KONTO-REGISTER. If not found, it sets an error indicator.
- **File:** KONTO-REGISTER (Project Codes)
- **Field:** C3PROJ (Project Code)
- **Condition:** An error is triggered if the project code does not exist.

## Subprogram Calls Affecting Logic

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

### 1. CO402R (Check for Default Warehouse)

- **Trigger:** Called to determine if a new warehouse has been created.
- **Logic:** Checks if the warehouse differs from the user's default warehouse.
- **Impact:** If a new warehouse is detected, it allows for the reassignment of department codes.

## **2. RA507R (Department Query)**

- Trigger:** Called when querying department information.
- Logic:** Retrieves department details based on the department code.
- Impact:** Ensures that valid department information is displayed to the user.

## **3. AA007R (User Confirmation Dialog)**

- Trigger:** Called when an error occurs that requires user confirmation.
  - Logic:** Displays a message to the user asking for confirmation to proceed.
  - Impact:** Acts as a checkpoint for critical validations, ensuring user awareness of potential issues.
- This documentation provides a comprehensive overview of the business logic implemented in the LO101R program, focusing on the key rules and validations that govern order processing.