

# NO100R.MBR

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## Business Logic for External Order Header Maintenance

This document outlines the business rules that govern the maintenance of external order headers, based on an analysis of the RPG program NO100R. The primary focus is on the rules and logic that dictate how external orders are processed, updated, and validated within the system.

The core logic for maintaining external order headers is contained within the \*inzsr subroutine in NO100R. This subroutine initializes the program, sets up necessary parameters, and handles the display and processing of order data.

## Order Status and Header Rules

**External Order Maintenance:** NOHEL2, NOHEL3, NOHEL4, NOHEL5, NOHEL6, NOHE, NODT, EDHE, EDDT

### 1. Order Existence Check

- Logic:** The program checks if an external order exists based on the provided order number and system type. If the order is found, it proceeds with further processing; otherwise, it may create a new order.
- File:** NOHEL2 (External Order Header)
- Field:** nohel2\_nref
- Condition:** The process will not select a record if nohel2\_nref is blank or does not match the expected order number.

### 2. Order Status Validation

- Logic:** The program validates the status of the order. If the status indicates that the order is already transferred or has errors, it will not allow further processing.
- File:** NOHEL2 (External Order Header)
- Field:** b1stat
- Condition:** The process will not proceed if b1stat is not equal to 0 (indicating no errors).

## Configuration and Authorization Rules

### 1. User Authorization Check

- Logic:** The program checks if the user has the necessary permissions to access or modify the order. If the user is not authorized, the program will display an error message.
- Files:**
  - AUSRL1 (User Reference)
  - FUSRL1 (Firm User Reference)
- Fields:**
  - ausrl1\_user (from AUSRL1)
  - fusrl1\_user (from FUSRL1)
- Condition:** The process will not allow modifications if the user is not found in the relevant user files.

## 2. System Type Check

- Logic:** The program verifies the system type associated with the order. If the system type is not recognized, it may prevent processing.
  - File:** NOHEL2 (External Order Header)
  - Field:** b1fsys
  - Condition:** The process will not continue if b1fsys does not match expected system types (e.g., 'EDI', 'SMK', 'EHF').
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## Financial and Transactional Rules

### 1. Order Transfer Validation

- Logic:** The program checks if the order has already been transferred. If it has, it prevents any further actions on that order.
- File:** NOHEL2 (External Order Header)
- Field:** b1over
- Condition:** The process will not allow further actions if b1over is equal to 1 (indicating the order has been transferred).

### 2. Error Handling for Order Processing

- Logic:** If any errors are encountered during the processing of the order, appropriate error messages are generated and displayed to the user.
  - File:** NOHEL2 (External Order Header)
  - Condition:** The process will display error messages if b1stat is not equal to 0 (indicating an error status).
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## Special Conditions (Program-Specific)

### 1. Handling of EDI Orders (NO120R)

- Logic:** The program checks if the order is an EDI order and handles it according to specific rules, including checking for locked orders.
- File:** NOHEL2 (External Order Header)
- Field:** b1fsys
- Condition:** The process will execute specific logic if b1fsys is equal to 'EDI'.

### 2. Order Line Maintenance

- Logic:** The program allows for the maintenance of order lines associated with the external order. It checks for existing lines and updates them as necessary.
  - File:** NODTL (Order Line)
  - Fields:** nodtl1\_tell, nodtl1\_fsys
  - Condition:** The process will update lines if they exist and are associated with the current order.
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## Subprogram Calls Affecting Logic

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

### 1. NO150R (Customer Order Retrieval)

- Trigger:** Called when the user requests to retrieve a customer order.

- Logic:** This program retrieves customer order details based on the provided parameters.

- Impact:** This call acts as a **major logical gateway** for fetching customer orders.

## **2. FA720R (Job Status Update)**

- Trigger:** Called to update the job status in the job register.

- Logic:** This program updates the job status based on the current processing state.

- Impact:** This ensures that the job status reflects the current state of order processing.

## **3. ND105R (Order Line Status Check)**

- Trigger:** Called to check the status of order lines associated with the external order.

- Logic:** This program retrieves the status of each line in the order.

- Impact:** This represents the handoff to the next major business function of validating order lines.

This documentation provides a comprehensive overview of the business logic governing the external order header maintenance process in the NO100R program, ensuring clarity and understanding for future development and maintenance efforts.