

NO100R.MBR

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Business Logic for External Order Maintenance

This document outlines the business rules that govern the external order maintenance process, based on an analysis of the RPG program NO100R. The primary focus is on the handling of external orders, including their creation, modification, and deletion, as well as the associated business logic for managing order lines and statuses.

The core logic for maintaining external orders is contained within the main subroutine in NO100R. The program processes records from various files related to external orders and their lines, performing operations based on user inputs and system conditions.

Order Status and Header Rules

External Order Maintenance: NOHEL2, NOHEL3, NOHEL4, NOHEL5, NOHEL6

1. Check for Existing Orders

- Logic:** The program checks if an order already exists before creating a new one. If the order exists, it prevents duplication.
- File:** NOHEL2 (External Order Header)
- Field:** NOHEL2_NREF
- Condition:** The process will not create a new order if NOHEL2_NREF is not equal to blank.

2. Order Deletion

- Logic:** When an order is deleted, all associated order lines are also deleted to maintain data integrity.
- File:** NOHEL2 (External Order Header)
- Field:** NOHEL2_TELL
- Condition:** The deletion occurs if the order is found in NOHEL2.

Configuration and Authorization Rules

1. User Permissions for Order Creation

- Logic:** The program checks if the user has the necessary permissions to create an order.
- Files:**
 - AUSRL1 (User Rights)
 - FUSRL1 (User Rights)
- Fields:**
 - AUSRL1_USER (User ID)
 - FUSRL1_USER (User ID)
- Condition:** The creation of an order is blocked if the user does not exist in either AUSRL1 or FUSRL1.

2. EDI Order Handling

- Logic:** The program checks if the order is an EDI order and processes it accordingly.
- File:** NOHEL2 (External Order Header)

- Field:** NOHEL2_FSYS

- Condition:** If NOHEL2_FSYS is equal to 'EDI', specific EDI processing logic is applied.

Financial and Transactional Rules

1. Order Line Status Check

- Logic:** The program verifies the status of each order line before processing the order.

- File:** NODTL1 (Order Line)

- Fields:**

- NODTL1_TELL (Line Number)

- NODTL1_FSYS (File System)

- Condition:** The order cannot be processed if any line has a status that is not equal to 0.

2. Inventory Check for Order Lines

- Logic:** The program checks if the order lines contain inventory items before allowing the order to be processed.

- File:** NODTL1 (Order Line)

- Condition:** The order will not be processed if there are no inventory items in the order lines.

Special Conditions (Program-Specific)

1. EDI Order Transfer Logic (NO120R)

- Logic:** The program calls an external program to handle the transfer of EDI orders.

- File:** NOHEL2 (External Order Header)

- Field:** NOHEL2_FSYS

- Condition:** If the order is identified as an EDI order, the program NO120R is called to manage the transfer.

2. Customer and Project Creation Logic (FA930R, FL104R, FL105R)

- Logic:** The program allows for the creation of customers and projects associated with the order.

- Files:**

- FA930R (Customer Creation)

- FL104R (Project Creation)

- FL105R (Project Creation)

- Condition:** The creation of a customer or project is contingent upon the existence of valid identifiers.

Subprogram Calls Affecting Logic

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

1. NO110R (Status Codes Handling)

- Trigger:** Called when the F13 function key is pressed.

- Logic:** This program retrieves and displays status codes related to the order.

- Impact:** This call acts as a **status verification step** for the order processing.

2. NO150R (Customer Order Retrieval)

- Trigger:** Called when the F14 function key is pressed.

- Logic:** This program retrieves customer orders based on the provided criteria.
- Impact:** This is a **critical step** for ensuring customer orders are correctly linked to external orders.

3. FA720R (Job Status Update)

- Trigger:** Called to update the job status during the order processing.
- Logic:** This program updates the job status in the job register.
- Impact:** This ensures that the job status is accurately reflected in the system, which is essential for tracking order processing.

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This documentation provides a comprehensive overview of the business logic implemented in the NO100R program, detailing the rules and conditions that govern the external order maintenance process.