

VL001R.MBR

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Business Logic for Inventory Update Process

This document outlines the business rules that govern the inventory update process, based on an analysis of the RPG program VL001R. The primary focus is on how inventory records are updated and logged based on various transaction types and conditions.

The core logic for managing inventory updates is contained within the main processing logic of the program, which checks the validity of inventory items, processes transactions, and updates both the current inventory and historical records.

Inventory Status and Validation Rules

Inventory Update Process: vvarl1, vugr1, votyl1, vltyl1, vvenl1, vlaglu, fvhislu

1. Valid Inventory Check

- Logic:** The program checks if the inventory item exists in the inventory register. If not found, the process is aborted.
- File:** vvarl1 (Inventory Item Register)
- Field:** vvarl1_vare
- Condition:** The process will not proceed if the inventory item is not found (*in90 is on).

2. Valid Warehouse Check

- Logic:** The program verifies if the specified warehouse is valid. If invalid, a log entry is created, and the process is aborted.
- File:** ra10l1 (Warehouse Register)
- Field:** ra10l1_jkod
- Condition:** The process will not proceed if the warehouse is not found (*in90 is on).

Configuration and Transaction Type Rules

1. Transaction Date and Time Initialization

- Logic:** If the transaction date or time is not provided, the system date and time are used.
- File:** None (System Variables)
- Fields:** hldato, hltime
- Condition:** The system date and time are assigned if hldato or hltime is equal to *loval.

2. Order Type and Alternative Processing Code Check

- Logic:** The program checks if both the order type and alternative processing code are blank. If so, the process is aborted.
- File:** None (System Variables)
- Fields:** hlotyp, hlaltk
- Condition:** The process will not proceed if both fields are blank.

Financial and Transactional Rules

1. Inventory Update Based on Order Type

- Logic:** The program updates inventory based on the order type and processing code, adjusting quantities accordingly.
- File:** vltyl1, votyl1 (Line Type and Order Type Registers)
- Fields:** vltyl1_ltyp, votyl1_otyp
- Condition:** The process will not proceed if the line type or order type is invalid (*in90 is on).

2. Accumulative Type Check

- Logic:** The program checks the accumulator type. If it is 0 or 5, no update occurs.
- File:** None (System Variables)
- Field:** vaoakk
- Condition:** The process will not proceed if vaoakk is 0 or 5.

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Special Conditions (Program-Specific)

1. Delivery Type Check (VL001R)

- Logic:** If the delivery type is 1, the process is aborted as it should not update inventory.
- File:** None (System Variables)
- Field:** hllety
- Condition:** The process will not proceed if hllety equals '1'.

2. Alternative Processing Code Handling (VL001R)

- Logic:** If an alternative processing code is specified, it overrides the order/line type for updates.
- File:** None (System Variables)
- Field:** hlaltk
- Condition:** The process will follow alternative processing logic if hlaltk is not blank.

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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. VL710R (Retrieve Item Type)

- Trigger:** Called to retrieve the item type based on the inventory item and warehouse.
- Logic:** This program fetches the item type and validates it against business rules.
- Impact:** This call is critical for determining if the item can be processed as inventory.

2. CO402R (MalProff Update)

- Trigger:** Called to update additional records if the transaction pertains to MalProff.
- Logic:** This program handles specific updates related to MalProff transactions.
- Impact:** This affects how additional records are maintained and ensures compliance with MalProff requirements.

3. oppr_hist (Create Historical Record)

- Trigger:** Called to log transactions in the historical inventory book.
- Logic:** This program writes transaction details to the historical records.
- Impact:** This ensures that all inventory transactions are logged for auditing and reporting purposes.

This documentation provides a comprehensive overview of the business logic encapsulated within the VL001R program, detailing how inventory updates are processed and the conditions that

govern these operations.