VL001R.MBR

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Business Logic for VL001R

This document outlines the business rules that govern the inventory update process and historical inventory logging, based on an analysis of the RPG program VL001R. The primary focus is on the validation and processing of inventory transactions.

The core logic for inventory updates is contained within the main processing logic of the VL001R program. The program manages various inventory operations including updates, checks for valid inventory items, and logs transactions into a historical record.

Inventory and Item Validation Rules

VL001R: vvarl1, vugrl1, votyl1, vltyl1, vvenl1, vlaglu, fvhislu

1. Valid Item Check

•**Logic:** The program checks if the item exists in the inventory register. If the item is not found, the program logs an error and exits.

•**File:** vvarl1 (Inventory Item Register)

•**Field:** vvarl1_vare

•**Condition:** The process will not proceed if the item is not found (*in90 is on).

2. Valid Warehouse Check

•**Logic:** The program checks if the specified warehouse is valid. If not, it logs an error and exits.

•**File:** ra10l1 (Warehouse Register)

•**Field:** ra10l1_jkod

•**Condition:** The process will not proceed if the warehouse is not found (*in90 is on).

Transaction Processing Rules

1. Transaction Date and Time Initialization

•**Logic:** If the transaction date or time is not provided, the program initializes these fields with the current system date and time.

•**Files:**

•hlrec (Transaction Record)

•**Fields:**

•hldato (Transaction Date)

•hltime (Transaction Time)

•**Condition:** The date and time fields are set if they are 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, it logs an error and exits.

•**File:** hlrec (Transaction Record)

•**Field:** hlotyp, hlaltk

•**Condition:** The process will not proceed if both fields are blank.

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Inventory Update Rules

1. Update Inventory Based on Transaction Type

•**Logic:** The program updates the inventory based on the transaction type and order type, adjusting quantities accordingly.

•**File:** vlaglu (Inventory Register)

•**Fields:**

•hlanta (Quantity)

•hltype (Transaction Type)

•**Condition:** The update occurs based on the specified conditions for order types and transaction types.

2. Historical Record Logging

•**Logic:** The program logs each transaction into a historical inventory book after processing.

•**File:** vhislur (Historical Inventory Book)

•**Condition:** A new record is created for each transaction processed, ensuring a sequential record of inventory changes.

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Special Conditions (Program-Specific)

1. Handling of Specific Transaction Types

•**Logic:** The program handles specific transaction types such as 'I' for inventory entry, 'U' for inventory withdrawal, and 'J' for inventory adjustment. Each type has specific logic for updating quantities.

•**File:** vlaglu (Inventory Register)

•**Field:** hlaltk (Alternative Processing Code)

•**Condition:** The process branches based on the value of hlaltk.

2. MalProff Update Handling

•**Logic:** If the transaction is related to MalProff, the program updates additional registers accordingly.

•**File:** rmpil1, rmpilu (MalProff Additional Information)

•**Condition:** The update occurs if the w_mp flag is set to on.

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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. CO402R (MalProff Additional Information Retrieval)

•**Trigger:** This program is called to check if additional updates are needed for MalProff transactions.

•**Logic:** It retrieves specific parameters related to MalProff and sets the w_mp flag based on the result.

•**Impact:** This call determines whether additional processing for MalProff is required.

2. VL710R (Item Type Retrieval)

•**Trigger:** This program is called to retrieve item type information based on the inventory item.

•**Logic:** It takes parameters such as firm, item, and warehouse to determine the item type.

•**Impact:** This affects the validation of whether the item can be processed as an inventory item.

3. RMP97C (Logging Routine)

•**Trigger:** This program is called at the end of processing to log the transaction details.

•**Logic:** It logs the job and program details along with the transaction record.

•**Impact:** This ensures that all transactions are properly logged for auditing purposes.

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This documentation provides a comprehensive overview of the business logic implemented in the VL001R program, detailing the rules and conditions that govern inventory updates and historical logging.