MB100R.MBR

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Business Logic for ABC Parameter Maintenance

This document outlines the business rules that govern the ABC parameter maintenance process, based on an analysis of the RPG program MB100R. The primary focus is on the logic that handles the updating and management of ABC codes associated with inventory items.

The core logic for managing ABC parameters is contained within the various subroutines in MB100R. The program processes records related to inventory items and their associated ABC codes, allowing for updates, deletions, and queries based on user input.

Order Status and Header Rules

ABC Parameter Maintenance: mabcl1, mabcl2, mabclr, mabclu, mabdl2, mabdlu, vvarlu, vogrl1, vhgrl1, vugrl1, vvarl1, vshel1

1. Update ABC Code

•**Logic:** Updates the ABC code for an inventory item based on user input and the current state of the database.

•**File:** mabclu (ABC parameter update file)

•**Field:** mabclu_vsor

•**Condition:** The process will update the record if the user has selected an item and provided valid input.

2. Delete ABC Code

•**Logic:** Deletes an existing ABC code from the database.

•**File:** mabdlu (ABC parameter deletion file)

•**Field:** mabdlu_vsor

•**Condition:** The process will delete the record if the user confirms the deletion action.

Configuration and Authorization Rules

1. Authorization for Updates

•**Logic:** Ensures that the user has the necessary permissions to update ABC codes.

•**Files:**

•mabclu (ABC parameter update file)

•mabclr (ABC parameter read file)

•**Fields:**

•mabclu_lagk (from mabclu)

•mabclr_lagk (from mabclr)

•**Condition:** The update will only proceed if the user has the correct authorization level.

2. Validation of Input Fields

•**Logic:** Validates the input fields to ensure they meet the required criteria before processing.

•**File:** mabclu (ABC parameter update file)

•**Field:** mabclu_vsor

•**Condition:** The process checks if the input values are within acceptable ranges (e.g., percentage fields must not exceed 100).

Financial and Transactional Rules

1. Inventory Update Logic

•**Logic:** Updates inventory levels based on the ABC code and associated parameters.

•**File:** mabdl2 (Inventory details file)

•**Fields:**

•mabdl2_lagk (Inventory location key)

•mabdl2_vsor (Inventory sort key)

•**Condition:** The update occurs if the ABC code is valid and the inventory location is specified.

2. Reporting on ABC Codes

•**Logic:** Generates reports based on the current state of ABC codes and inventory levels.

•**File:** mabclu (ABC parameter update file)

•**Condition:** The report generation is triggered by user selection and is based on the current inventory data.

Special Conditions (Program-Specific)

1. Special Handling for New Entries (MB100R)

•**Logic:** Handles the initialization of new ABC parameter entries.

•**File:** mabclu (ABC parameter update file)

•**Field:** mabclu_vsor

•**Condition:** The process initializes fields when creating a new entry, ensuring all necessary data is cleared and set to default values.

2. Error Handling for Invalid Inputs (MB100R)

•**Logic:** Displays error messages for invalid user inputs during the maintenance process.

•**File:** dspfbk (Display feedback structure)

•**Fields:** Various fields related to user input validation.

•**Condition:** The program checks for invalid inputs and triggers error messages accordingly.

Subprogram Calls Affecting Logic

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

1. MB601C (ABC Code Processing)

•**Trigger:** Called during the update and reporting processes.

•**Logic:** Processes the ABC code based on the parameters received.

•**Impact:** This call acts as a **major logical gateway** for updating the ABC codes in the inventory.

2. MB401R (Cleanup Program)

•**Trigger:** Invoked to clean up records associated with ABC codes.

•**Logic:** Removes or updates records based on the specified conditions.

•**Impact:** This is a **destructive filtering step** that ensures the integrity of the ABC code data.

3. MM747R (Forecast Update)

- **Trigger:** Called when updating ABC codes based on forecast data.
- **Logic:** Updates the forecast data associated with the ABC code.
- **Impact:** Represents the handoff to the next major business function, ensuring that inventory forecasts are aligned with ABC parameters.