

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 maintaining ABC parameters is contained within the various subroutines in MB100R. The program processes records from multiple files, updating inventory and managing user interactions through subfiles.

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 inventory items based on user input and predefined conditions.
- File:** mabclu (ABC parameter update file)
- Field:** mabclu_vsor
- Condition:** The process will not update if the mabclu_lagk field is blank.

2. Delete ABC Code

- Logic:** Deletes an existing ABC code entry from the database.
- File:** mabdlu (ABC parameter delete file)
- Field:** mabdlu_lagk
- Condition:** The deletion occurs only if the record exists in the mabdlu file.

Configuration and Authorization Rules

1. Validate Input for ABC Parameters

- Logic:** Ensures that the input values for ABC parameters do not exceed specified limits (e.g., percentages).
- Files:**
 - mabclu (ABC parameter update file)
 - mabclr (ABC parameter read file)
- Fields:**
 - mabclu_vsor (from mabclu)
 - mabclr_vsor (from mabclr)
- Condition:** The process will trigger validation checks if the mabclu_vsor is not blank.

2. Check for Existing Records

- Logic:** Validates whether a record already exists before performing updates.
- File:** mabclr (ABC parameter read file)
- Field:** mabclr_vsor
- Condition:** The check occurs during the update process to prevent duplicate entries.

Financial and Transactional Rules

1. Update Inventory Levels

- Logic:** Updates the inventory levels based on the ABC code and associated parameters.
- File:** mabdlu (ABC parameter delete file)
- Fields:**
 - mabdlu_lagk (Inventory location)
 - mabdlu_vsor (ABC code)
- Condition:** The update will only proceed if the mabdlu_vsor is found.

2. Calculate Totals for ABC Categories

- Logic:** Calculates the total counts for different ABC categories (e.g., AX, AY, AZ).
 - File:** mabdlu (ABC parameter delete file)
 - Condition:** The calculation occurs during the record processing loop.
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Special Conditions (Program-Specific)

1. Update ABC Code on Forecast

- Logic:** Calls an external program to update the ABC code based on forecast data.
- File:** mabclr (ABC parameter read file)
- Field:** mabclr_vsor
- Condition:** This check is performed when updating the ABC code based on forecast parameters.

2. User Interaction for Record Management

- Logic:** Manages user interactions for adding, updating, and deleting records through subfile displays.
 - File:** b1sfl (Subfile for user interaction)
 - Fields:** b1valg (User action choice)
 - Condition:** The program branches to different subroutines based on user input from function keys.
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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. MB601C (ABC Code Calculation)

- Trigger:** Called during the update of ABC parameters.
- Logic:** Calculates and updates the ABC code based on the provided parameters.
- Impact:** This call acts as a **critical logical gateway** for maintaining accurate inventory classifications.

2. MB104R, MB105R, MB106R (Additional ABC Management)

- Trigger:** Called based on user selection for managing ABC parameters.
- Logic:** Each program handles specific actions related to ABC code management.
- Impact:** These calls facilitate **modular management** of ABC codes, enhancing maintainability.

3. MM747R (Forecast Update)

- Trigger:** Called to update the ABC code based on forecast data.

- Logic:** Updates the ABC code in the database based on the forecast input.

- Impact:** Represents the **integration of forecasting** into inventory management, ensuring timely updates.

This documentation provides a comprehensive overview of the business logic encapsulated within the MB100R program, detailing the rules and processes that govern ABC parameter maintenance in the system.