

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 related to managing ABC codes and their associated inventory parameters.

The core logic for maintaining ABC parameters is contained within the *inzsr subroutine in MB100R. This subroutine initializes the program, sets up necessary keys for database access, and manages the display and interaction with subfiles that hold the ABC parameters.

Order Status and Header Rules

ABC Parameter Maintenance: mabcl1, mabcl2, mabclr, mabclu

1. Record Initialization

- Logic:** Initializes the program and sets up keys for accessing ABC parameter records.
- File:** mabcl1 (ABC Parameter File)
- Field:** mabcl1_ogrp, mabcl1_hgrp, mabcl1_ugrp
- Condition:** The program sets the keys to zero for the order group, header group, and user group when starting.

2. Subfile Management

- Logic:** Handles the creation and display of subfiles containing ABC parameters.
- File:** mabcl1 (ABC Parameter File)
- Field:** Various fields related to ABC parameters
- Condition:** Subfiles are populated based on the current keys set for the groups and inventory types.

Configuration and Authorization Rules

1. Parameter Validation

- Logic:** Validates input parameters for ABC codes and inventory groups.
- Files:**
 - mabclr (ABC Parameter Records)
 - mabclu (ABC Parameter Update Records)
- Fields:**
 - mabclr_vsor (ABC Code)
 - mabclu_lagk (Inventory Location)
- Condition:** The program checks that the ABC code and inventory location are valid before allowing updates.

2. Lock Code Enforcement

- Logic:** Prevents updates to certain fields based on lock codes.
- File:** mabclu (ABC Parameter Update Records)
- Field:** mabclu_lagk

- Condition:** Updates are blocked if the lock code indicates that the field cannot be modified.
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Financial and Transactional Rules

1. ABC Code Update Logic

- Logic:** Updates the ABC code for inventory items based on user input and validation.
- File:** mabclu (ABC Parameter Update Records)
- Fields:**
 - mabclu_vsor (ABC Code)
 - mabclu_lagk (Inventory Location)
- Condition:** The update occurs only if the user has provided a valid ABC code and inventory location.

2. Inventory Location Check

- Logic:** Ensures that inventory locations are valid before proceeding with updates.
 - File:** vlaglu (Inventory Location Records)
 - Condition:** The program checks if the inventory location exists and is active before allowing updates.
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Special Conditions (Program-Specific)

1. ABC Code Cleanup (MB401R)

- Logic:** Calls an external program to clean up ABC codes based on the parameters set.
- File:** mabdl2 (ABC Detail Records)
- Field:** mabdl2_lagk
- Condition:** This cleanup is triggered when the user selects to update or delete ABC codes.

2. Inventory Update Logic (MB101R)

- Logic:** Updates inventory records with the new ABC codes and parameters.
 - File:** vvarlu (Inventory Item Records)
 - Fields:** vvarlu_vare (Item Code)
 - Condition:** The update is executed if the inventory item exists and is valid.
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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 Processing)

- Trigger:** Called during the update process of ABC parameters.
- Logic:** Processes the ABC codes and updates related inventory records.
- Impact:** This call acts as a **major logical gateway** for ensuring that ABC codes are correctly applied to inventory items.

2. MB401R (ABC Code Cleanup)

- Trigger:** Called when cleaning up ABC codes based on user input.
- Logic:** Cleans up invalid or obsolete ABC codes from the inventory.
- Impact:** This is a **destructive filtering step** that ensures only valid codes remain in the system.

3. VC500R (Inventory Item Validation)

- Trigger:** Called when validating inventory items against user input.
- Logic:** Validates the inventory item details based on the provided parameters.
- Impact:** Ensures that only valid inventory items are processed, preventing errors in the ABC parameter maintenance workflow.