

# LA101R.MBR

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## Business Logic for LA101R

This document outlines the business rules that govern the maintenance of status codes in the ERP system, based on an analysis of the RPG program LA101R. The primary focus is on how the program handles the retrieval and updating of inventory status codes.

The core logic for maintaining inventory status codes is contained within the A1BLD subroutine in LA101R. The program retrieves data from the IstsI1 file, processes it, and updates the IstsIu file based on user input.

## Order Status and Header Rules

LA101R: IstsI1, IstsIu

### 1. Retrieve Inventory Status

- Logic:** The program retrieves the inventory status code from the IstsI1 file using a key and populates various fields with the retrieved data.

- File:** IstsI1 (Inventory Status Codes)

- Field:** IstsI1\_key

- Condition:** The process will not select a record if the key does not exist in the IstsI1 file.

### 2. Display Inventory Status

- Logic:** After retrieving the data, the program displays the information on the screen for user interaction.

- File:** a1bld (Display Format)

- Field:** Various fields populated from IstsI1

- Condition:** The display is shown regardless of whether data was found, but fields will be blank if no record is found.

## Configuration and Authorization Rules

### 1. Update Inventory Status

- Logic:** The program updates the IstsIu file with the values entered by the user, either updating an existing record or creating a new one if it does not exist.

- Files:**

- IstsIu (Updated Inventory Status Codes)

- Fields:**

- Iaabrk (Status Code)

- Iaabin (Inventory Number)

- Condition:** The update occurs if the record is found; otherwise, a new record is created.

### 2. User Information Tracking

- Logic:** The program captures the user information and timestamps for auditing purposes during updates.

- File:** IstsIu (Updated Inventory Status Codes)

- Field:** laaeus (User ID)
  - Condition:** User information is recorded during both updates and inserts.
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## Financial and Transactional Rules

### 1. Timestamp Update

- Logic:** The program updates timestamp fields to reflect the last modified time whenever a record is updated or created.
- File:** Istslu (Updated Inventory Status Codes)
- Fields:**
  - laaeda (Last Edited Date)
  - laaeti (Last Edited Time)
- Condition:** Timestamps are updated only when changes are made to the record.

### 2. Firm Association

- Logic:** The program associates the current firm with the inventory status records by setting the w\_firm variable.
  - File:** Istsl1, Istslu (Inventory Status Codes)
  - Condition:** The firm is set at the beginning of the program and used as part of the key for both reading and writing records.
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## Special Conditions (Program-Specific)

### 1. End Program Logic (LA101R)

- Logic:** The program checks for the exit condition and sets the last record indicator before returning control.
- File:** N/A
- Field:** N/A
- Condition:** The program exits when the user presses the F3 key.

### 2. Initialization Subroutine (LA101R)

- Logic:** The program initializes the keys for reading and updating the inventory status codes at the start.
  - File:** Istsl1, Istslu (Inventory Status Codes)
  - Fields:** w\_firm (Firm Identifier)
  - Condition:** Initialization occurs at the beginning of the program to ensure proper key setup.
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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. A1BLD (Display Handling Program)

- Trigger:** Called to display the inventory status information to the user.
- Logic:** Handles the formatting and presentation of the inventory status data.
- Impact:** This call acts as a **major logical gateway** for user interaction with the inventory status codes.

### 2. Istsl1 (Inventory Status File)

- Trigger:** Accessed to retrieve the current status codes for display and modification.
- Logic:** Provides the data structure for reading inventory status codes.
- Impact:** Essential for the initial data retrieval process.

### **3. Istslu (Updated Inventory Status File)**

- Trigger:** Accessed to update or insert inventory status codes based on user input.
- Logic:** Facilitates the storage of modified inventory status codes.
- Impact:** Represents the handoff to the next major business function of maintaining inventory records.