

LI100R.MBR

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Business Logic for EDI Message Processing

This document outlines the business rules that govern the processing of incoming EDI messages, based on an analysis of the RPG program LI100R. The primary focus is on the validation, filtering, and handling of EDI messages as they are processed within the system.

The core logic for EDI message processing is contained within the *inzsr subroutine in LI100R. The program reads messages from various files, applies business rules, and updates records accordingly.

Order Status and Header Rules

EDI Message Processing: ledil1, ledil5, ledilu, ledilr, lohelr, votylr

1. Check EDI Message Type

- **Logic:** The program checks if the message type is valid and whether it is allowed based on the firm's settings. If the type is not valid, the process will not proceed.
- **File:** ledil1 (EDI Message Lines)
- **Field:** litype
- **Condition:** The process will not select a record if litype is not equal to valid types defined in the firm settings.

2. Filter Blank Messages

- **Logic:** The program allows blank messages only if specific conditions are met, ensuring that the processing logic adheres to business rules.
- **File:** ledil1 (EDI Message Lines)
- **Field:** a1type
- **Condition:** The process will not allow blank messages if certain flags (lbko05, lbko06, lbko07, lbko08) are not set to 1.

Configuration and Authorization Rules

1. User Access Control

- **Logic:** The program checks if the user has the appropriate access rights to perform actions on EDI messages.

• **Files:**

- lusr1 (User Access)
- lsts1 (Firm Settings)

• **Fields:**

- lusr1_user (User Identifier)
- laaeds (Access Level)

- **Condition:** The process will not proceed if the user does not have the required access level (laaeds must be 1).

2. EDI Message Read Mode

- **Logic:** If the program is in read mode, certain checks and updates are bypassed to allow for viewing without modification.
 - **File:** ledil1 (EDI Message Lines)
 - **Field:** *in79
 - **Condition:** If *in79 is on, the program will skip checks that would normally block access to records.
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Financial and Transactional Rules

1. Invoice Processing

- **Logic:** The program processes invoices by validating the invoice number and ensuring it matches the expected format and values.
- **File:** ledil1 (EDI Message Lines)
- **Fields:**
 - b1type (Message Type)
 - b1mnum (Message Number)
- **Condition:** The process will not proceed if the invoice number does not match the expected criteria.

2. Order Confirmation Handling

- **Logic:** The program checks if the order confirmation matches the expected order type and updates the status accordingly.
 - **File:** ledil1 (EDI Message Lines)
 - **Condition:** The process will not allow updates if the order type does not match the expected values.
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Special Conditions (Program-Specific)

1. Manual Approval of Messages (LI100R)

- **Logic:** The program allows for manual approval of messages, ensuring that the status is updated correctly based on user input.
- **File:** ledil1 (EDI Message Lines)
- **Field:** b1stat
- **Condition:** The process will update the message status to approved only if the user confirms the action.

2. Reactivation of Deleted Messages (LI100R)

- **Logic:** If a message has been marked for deletion, the program allows for reactivation based on specific conditions.
- **File:** ledilr (Deleted EDI Messages)
- **Fields:**
 - ledilr_type (Message Type)
 - ledilr_mnum (Message Number)
- **Condition:** The process will reactivate a message if it was previously deleted and the reactivation conditions are met.

Subprogram Calls Affecting Logic

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

1. CO402R (Configuration Retrieval)

- Trigger:** Called during initialization to retrieve configuration settings.
- Logic:** This program checks various flags that determine the behavior of the current program.
- Impact:** This call acts as a **major logical gateway** for determining the operational mode of the EDI processing.

2. LI166R (Invoice Processing)

- Trigger:** Called when processing invoices to validate and update records.
- Logic:** This program handles the specifics of invoice validation and updates.
- Impact:** This is a **critical step** in ensuring that invoices are correctly processed and logged.

3. LI700C (Status Check)

- Trigger:** Called to check the status of the EDI message processing.
 - Logic:** This program retrieves the current status of the EDI processing job.
 - Impact:** This call ensures that the system can handle concurrent processing and avoid conflicts.
- This documentation provides a comprehensive overview of the business logic implemented in the LI100R program for processing EDI messages, ensuring clarity and understanding of the rules and conditions that govern this critical function.