

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 through the system.

The core logic for EDI message processing is contained within various subroutines in LI100R. The program reads EDI messages, validates them against business rules, and updates the relevant records in the database.

Order Status and Header Rules

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

1. Check for Valid EDI Message Type

- Logic:** The program checks if the EDI message type is valid based on predefined conditions. If the type is blank or not allowed, it will not process the message.
- File:** ledil1 (EDI Message Lines)
- Field:** litype
- Condition:** The process will not select a record if litype is not in the allowed list.

2. Filter Out Invalid Messages

- Logic:** Messages that do not meet specific criteria (like status or type) are filtered out and not processed further.
- File:** ledil1 (EDI Message Lines)
- Field:** listat
- Condition:** The process will skip messages that have a status of '9' or '7'.

Configuration and Authorization Rules

1. Access Control Check

- Logic:** The program checks if the user has the necessary permissions to access the EDI processing functionality.
- Files:**
- lusrl1 (User Access Control)
- Fields:**
- lusrl1_user (User ID)
- Condition:** Access is denied if the user does not have the required permissions.

2. Filter Based on User Preferences

- Logic:** The program allows filtering of messages based on user-defined criteria such as supplier or message type.
- File:** ledil1 (EDI Message Lines)
- Field:** w_kode
- Condition:** Filtering is applied based on user input, which may include specific message types or statuses.

Financial and Transactional Rules

1. Total Amount Validation

- Logic:** The program checks the total amounts in the EDI messages against expected values to ensure consistency.
- File:** d_fakt (Invoice Totals)
- Fields:**
 - d_ft_ftot (Total Amount)
 - d_ft_mvat (VAT Amount)
- Condition:** The process will flag discrepancies if the totals do not match expected values.

2. Order Confirmation Check

- Logic:** The program verifies if the order confirmation matches the details in the EDI message.
- File:** lohclr (Order Header)
- Condition:** If the order confirmation does not match, the message is flagged for review.

Special Conditions (Program-Specific)

1. Manual Approval Requirement (LI100R)

- Logic:** Certain messages require manual approval before they can be processed further.
- File:** ledilr (EDI Message Lines)
- Field:** listat
- Condition:** Messages flagged for manual approval will not be processed until approved by a user.

2. Reactivation of Deleted Messages (LI100R)

- Logic:** If a message that has been marked for deletion is found, it can be reactivated based on specific conditions.
- File:** ledilr (EDI Message Lines)
- Fields:** listat, likode
- Condition:** The message will be reactivated if it meets the criteria defined in the reactivation logic.

Subprogram Calls Affecting Logic

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

1. CO402R (Configuration Check)

- Trigger:** Called at the beginning of the program to check configuration settings.
- Logic:** This program checks if specific features are enabled based on the firm's settings.
- Impact:** This call acts as a **major logical gateway**, determining the flow of the program based on configuration.

2. LI166R (Invoice Processing)

- Trigger:** Called when processing invoices within the EDI messages.
- Logic:** This program handles the details of invoice processing and updates the relevant records.
- Impact:** This is a **critical processing step** that affects financial records and reporting.

3. LI700C (Status Update)

- Trigger:** Called to update the status of the EDI processing job.
- Logic:** This program updates the job status in the job register.
- Impact:** This ensures that the processing status is accurately reflected in the system, which is essential for tracking and reporting.

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This documentation provides a high-level overview of the business logic implemented in the LI100R program for EDI message processing. Each section outlines the rules and conditions that govern how EDI messages are handled, ensuring that the system operates smoothly and efficiently.