

RV001R.MBR

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Business Logic for RV001R

This document outlines the business rules that govern the processing of invoice data from the FOVF file into a comma-separated format, based on an analysis of the RPG program RV001R. The primary focus is on the logic for reading and transforming invoice records.

The core logic for processing invoices is contained within the main program logic and the control_init subroutine in RV001R. The program reads records from the input files, performs validations and transformations, and writes the output to a specified format.

Order Status and Header Rules

RV001R: FOVF, SOHEL1, VOTYL1, AFORL1, RB10L1, RKUNL1, RB00L1

1. Firm Validation

- Logic:** The process will skip the record if the firm code does not match the expected value.
- File:** FOVF (Invoice header file)
- Field:** l_firm
- Condition:** "The process will not select a record if l_firm is not equal to ffirm."

2. Clear Fields

- Logic:** If the firm matches, all relevant fields are initialized to blank or zero.
- File:** FOVF
- Field:** Various fields including d_dati, w_inavn, w_ladr1, etc.
- Condition:** "Fields are cleared when processing begins for a valid firm."

Configuration and Authorization Rules

1. Tax Code Assignment

- Logic:** The program assigns a tax code based on the content of the ffdmom field or defaults to ffcmom if ffdmom is blank.
- Files:**
 - FOVF (Invoice header file)
 - RB00L1 (Tax code file)
- Fields:**
 - w_mkod (Tax code)
 - w_mkodn (Converted tax code)
- Condition:** "If ffdmom is blank, w_mkod takes the value of ffcmom."

2. Invoice Type Conversion

- Logic:** The program checks if the invoice type needs to be converted and retrieves the corresponding code.
- File:** RB10L1 (Invoice type file)
- Field:** xxbilk
- Condition:** "The program checks if the invoice type exists in RB10L1 and updates xxbilk accordingly."

Financial and Transactional Rules

1. Data Movement for Invoice Fields

- Logic:** The program moves various date and amount fields from the input record to the output structure.
- File:** FOVF
- Fields:**
 - d_dati (Invoice date)
 - d_fdat (Due date)
- Condition:** "Data is moved to the output structure when processing the invoice."

2. Output Record Construction

- Logic:** The program constructs a comma-separated output record with various invoice details.
- File:** RV01PFR (Output file)
- Condition:** "The output record is written after all fields are populated with the necessary data."

Special Conditions (Program-Specific)

1. Customer Name Handling

- Logic:** The program checks for commas in the customer name and splits it into first and last names if found.
- File:** RKUNL1 (Customer file)
- Field:** rknavn
- Condition:** "If a comma is found in rknavn, it splits the name into w2navn and w2fnv."

2. Address Handling

- Logic:** The program populates address fields from the customer record, ensuring they are formatted correctly.
- File:** RKUNL1
- Fields:** w_ladr1, w_ladr2, w_lposn
- Condition:** "Address fields are populated from the customer record if the customer exists."

Subprogram Calls Affecting Logic

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

1. AK710R (Customer ID Retrieval Program)

- Trigger:** Called when processing customer-related data.
- Logic:** Retrieves customer ID based on various parameters.
- Impact:** "This call is essential for ensuring the correct customer ID is associated with the invoice."

2. control_init (Initialization Subroutine)

- Trigger:** Called at the beginning of the main processing logic.
- Logic:** Initializes various fields and retrieves the latest invoice header data.
- Impact:** "This is a critical step for setting up the context for processing invoices."

3. sohel1_key (Invoice Header Key)

- Trigger:** Used to read the invoice header records.

- Logic:** Establishes the key for accessing the invoice header file.

- Impact:** "This key setup is vital for ensuring accurate invoice data retrieval."

This documentation provides a comprehensive overview of the business logic encapsulated in the RV001R program, detailing the rules and processes that govern invoice data handling.