

AX003R.MBR

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Business Logic for XML Data Processing

This document outlines the business rules that govern the XML data processing for financial records, based on an analysis of the RPG program AX003R. The primary focus is on how the program retrieves, processes, and outputs financial data in XML format.

The core logic for processing financial records is contained within the StartP and Bilag subroutines in AX003R. The program reads records from the RHTRPF and XMLL1 files, processes them according to specific business rules, and generates XML output.

Order Status and Header Rules

XML Data Processing: RHTRPF, XMLL1

1. Firm Selection

- Logic:** The program sets the firm to be processed based on the input parameter w_firmn.
- File:** RHTRPF (Financial records)
- Field:** rhtrl5_firm
- Condition:** The process will only select records where rbfirm matches w_firmn.

2. Date Range Filtering

- Logic:** The program filters records based on the financial year and period specified by the parameters p_pfa and p_pfm.
- File:** RHTRPF
- Field:** rbraar, rbrper
- Condition:** Records are selected if rbraar is less than p_pta or if it equals p_pta and rbrper is less than or equal to p_ptm.

Configuration and Authorization Rules

1. XML Output Initialization

- Logic:** The program initializes the XML output structure before processing each financial record.
- Files:**
- XMLL1 (XML output structure)
- Fields:**
- rxmll1_head (XML header)
- rxmll1_linj (XML line)
- Condition:** This initialization occurs at the start of processing each new financial record.

2. End of Processing Check

- Logic:** The program checks for the end of the input records to finalize the XML output.
- File:** XMLL1
- Field:** axmaop
- Condition:** The process continues until axmaop equals 'E', indicating the end of processing.

Financial and Transactional Rules

1. Record Processing Loop

- Logic:** The program processes each financial record, generating XML lines for each entry.
- File:** RHTRPF
- Fields:**
 - rbbin (Bill number)
 - rbdat (Bill date)
- Condition:** Processing continues while not at the end of the file and the bill number matches the current record being processed.

2. Currency Handling

- Logic:** The program handles currency conversion and outputs relevant XML tags for currency code and amount.
- File:** RHTRPF
- Condition:** This logic is executed if rbvalk is not empty and rbvalb is not zero, ensuring valid currency data is present.

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Special Conditions (Program-Specific)

1. XML Line Generation (AX003R)

- Logic:** The program generates XML lines based on various conditions and field values.
- File:** XMLL1
- Field:** axxmlt
- Condition:** The XML line is generated based on the type of data being processed (e.g., numeric, text, date).

2. Special Character Handling (AX003R)

- Logic:** The program replaces special characters in text fields with their XML-safe equivalents.
- File:** XMLL1
- Fields:** text (original text), w_str_u (escaped text)
- Condition:** This occurs during the XML line generation to ensure valid XML output.

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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. SXMLUT (XML Line Output)

- Trigger:** Called during the processing of each financial record.
- Logic:** This subroutine handles the output of XML lines based on the current record's data.
- Impact:** This call acts as a **major logical gateway** for generating the XML output.

2. BehKonto (Account Processing)

- Trigger:** Called for each account associated with a financial record.
- Logic:** This subroutine processes all lines associated with a specific account.
- Impact:** This represents the detailed processing of account entries within the financial record.

3. redefnum (Numeric Redefinition)

- Trigger:** Called when formatting numeric fields for XML output.
- Logic:** This subroutine ensures that numeric values are formatted correctly for XML.
- Impact:** This is critical for maintaining the integrity of numeric data in the XML output.

This documentation provides a comprehensive overview of the business logic implemented in the AX003R RPG program, detailing how financial records are processed and output in XML format.