

AX003R.MBR

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Business Logic for XML Data Extraction and Processing

This document outlines the business rules that govern the XML data extraction and processing based on an analysis of the RPG program AX003R. The primary focus is on the logic for reading financial records and generating XML output.

The core logic for processing financial records is contained within the StartP subroutine in AX003R. The program reads data from the RHTRPF file and generates XML formatted output based on specific conditions and record values.

Order Status and Header Rules

Process_Name: RHTRPF, XML1

1. Firm Selection

- **Logic:** The program initializes the firm number to be processed based on the input parameter.
- **File:** RHTRPF (Financial records file)
- **Field:** rhrl5_firm
- **Condition:** The firm number is set to the value of w_firmn at the start of processing.

2. Record Filtering

- **Logic:** The program reads records from RHTRPF until it finds a record that matches the specified firm and period criteria.
- **File:** RHTRPF
- **Field:** rbraar, rbrper
- **Condition:** The process continues as long as the end of the file is not reached and the record's firm matches w_firmn and the year and period are within specified limits.

Configuration and Authorization Rules

1. XML Output Initialization

- **Logic:** The program prepares the XML output structure before processing each financial record.
- **Files:**
 - XML_Input (Input XML structure)
 - XML_Output (Output XML structure)
- **Fields:**
 - XML_Input
 - XML_Output
- **Condition:** The XML output is generated unless the operation type (axmaop) is set to 'S' or 'E'.

2. Record Processing Control

- **Logic:** The program processes each record and generates XML lines based on the record's content.
- **File:** RHTRPF

- **Field:** rbbiln
 - **Condition:** The program processes records until the end of the file is reached or the specified conditions are met.
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Financial and Transactional Rules

1. Transaction Line Generation

- **Logic:** For each financial record, the program generates XML lines representing the transaction details.
- **File:** RHTRPF
- **Fields:**
 - rbbiln (Bill number)
 - rbbdat (Bill date)
- **Condition:** The program continues generating lines as long as the bill number and date match the current transaction being processed.

2. Currency Handling

- **Logic:** The program handles currency conversion and outputs the relevant details in the XML.
 - **File:** RHTRPF
 - **Condition:** If the currency values are not zero and do not match the expected values, the program generates additional XML nodes for currency code and amount.
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Special Conditions (Program-Specific)

1. Error Handling (AX003R)

- **Logic:** The program includes checks for error conditions and handles them appropriately by skipping or modifying records.
- **File:** RHTRPF
- **Field:** rbmvak
- **Condition:** If certain fields indicate an error (e.g., rbmvak equals '0'), the program modifies the output accordingly. Note: This check is crucial for ensuring data integrity in the XML output.

2. Data Formatting (AX003R)

- **Logic:** The program formats specific fields for XML output, ensuring compliance with XML standards.
 - **File:** XML_Output
 - **Fields:** text (Formatted text for XML)
 - **Condition:** The program checks for special characters and formats them for XML compatibility.
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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 to generate XML lines.
- **Logic:** This subroutine constructs XML lines based on current record values and outputs them.
- **Impact:** This call acts as a **major logical gateway** for generating the XML output.

2. BehKonto (Account Processing)

- Trigger:** Called for each account related to the financial record being processed.
- Logic:** This subroutine handles the generation of XML lines specific to account transactions.
- Impact:** This is a **critical step** in ensuring that all account-related data is accurately represented in the XML.

3. redefnum (Number Redefinition)

- Trigger:** Called to format numeric fields for XML output.
- Logic:** This subroutine ensures that numeric values are correctly formatted, especially for currency and other financial figures.
- Impact:** This ensures that numeric values are correctly represented in the XML, which is essential for downstream processing.

This documentation provides a comprehensive overview of the business logic implemented in the AX003R program, focusing on the extraction and processing of financial records into an XML format.