

AX003R.MBR

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Business Logic for XML Generation from Accounting Records

This document outlines the business rules that govern the XML generation process from accounting records, based on an analysis of the RPG program AX003R. The primary focus is on how the program retrieves accounting data and formats it into XML for output.

The core logic for generating XML from accounting records is contained within the SXMLUT subroutine in AX003R. The program processes records from the RHTRPF file based on specified criteria and outputs the results in XML format.

Order Status and Header Rules

XML Generation: RHTRPF, AXMLUT

1. Firm Selection

- Logic:** The program initializes the firm to be processed based on the input parameters.
- File:** RHTRPF (Accounting Records)
- Field:** rbfirm
- Condition:** The process will only select records where rbfirm matches the specified firm number.

2. Date Filtering

- Logic:** The program filters records based on the accounting period and date.
- File:** RHTRPF (Accounting Records)
- Field:** rbbdat
- Condition:** The process will only select records where rbbdat is less than or equal to the specified end date.

Configuration and Authorization Rules

1. Period Parameters

- Logic:** The program retrieves and sets the parameters for the accounting period.
- Files:**
 - RHTRPF (Accounting Records)
 - AXMLUT (XML Output)
- Fields:**
 - p_pfm (from RHTRPF)
 - p_pfa (from RHTRPF)
- Condition:** The process sets the parameters based on the input data for the current processing period.

2. User Information

- Logic:** The program retrieves the user information for logging purposes.
- File:** RHTRPF (Accounting Records)
- Field:** l_user

- Condition:** The user information is fetched from the input parameters.

Financial and Transactional Rules

1. Record Processing

- Logic:** The program iterates through the accounting records and processes each line for XML output.
- File:** RHTRPF (Accounting Records)
- Fields:**
 - rbbiln (Invoice Number)
 - rbbdatt (Invoice Date)
- Condition:** The program processes records until the end of the file is reached or the specified conditions are met.

2. XML Output Generation

- Logic:** The program generates XML lines based on the processed accounting data.
- File:** AXMLUT (XML Output)
- Condition:** XML lines are written for each relevant record processed in the loop.

Special Conditions (Program-Specific)

1. Error Handling (AX003R)

- Logic:** The program includes error handling for invalid records during XML generation.
- File:** RHTRPF (Accounting Records)
- Field:** rbneto
- Condition:** If rbneto is less than zero, it is converted to a positive value for XML output. Note: This check ensures that negative values are handled appropriately.

2. XML Special Characters Handling (AX003R)

- Logic:** The program replaces special characters in text fields to ensure valid XML output.
- File:** AXMLUT (XML Output)
- Fields:** text (Text to be output)
- Condition:** The program checks for special characters and replaces them with their corresponding XML entities.

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:** This subroutine is called during the processing of each accounting record.
- Logic:** It formats and writes the XML representation of the current record being processed.
- Impact:** This call acts as a **major logical gateway** for generating the XML output.

2. BehKonto (Account Processing)

- Trigger:** This subroutine is invoked for each account entry within the current invoice.
- Logic:** It processes and formats the account details into XML.
- Impact:** This is a **critical step** in ensuring that all account-related data is accurately represented in the final XML output.

3. redefnum (Number Formatting)

- Trigger:** This subroutine is called to format numerical fields for XML output.
- Logic:** It ensures that numeric fields are formatted correctly, including handling leading zeros and decimal points.
- Impact:** This ensures that numeric data is presented in a **standardized format** in the XML output.