AX003R.MBR

Path: NXCLOUD/rpgsrc/AX003R.MBR **Generated**: 2026-01-08 12:16:25 **Processing Time**: 12543ms

Business Logic for AX003R - XML Generation for Accounting Entries

This document outlines the business rules that govern the XML generation process for accounting entries, based on an analysis of the RPG program AX003R. The primary focus is on the logic that processes accounting records and generates XML output.

The core logic for generating XML output is contained within the SXMLUT subroutine in AX003R. The program reads accounting entries from the RHTRL5 file and outputs XML formatted data to the AXMLUT file.

Order Status and Header Rules

AX003R: RHTRL5, RXMLL1

1. Firm Selection

•**Logic:** The program initializes the firm number for processing based on the input parameters.

•**File:** RHTRL5 (Accounting entries file)

•**Field:** RHTRL5_FIRM

•**Condition:** The program will set the firm number to the input value W_FIRMN.

2. Date Range Filtering

•**Logic:** The program filters records based on the accounting period and year.

•**File:** RHTRL5 (Accounting entries file)

•**Fields:** RHTRL5_RAAR, RHTRL5_RPER

•**Condition:** The process will only select records where the year is less than the end year (P_PTA) or the year is equal and the period is less than or equal to the end period (P_PTM).

Configuration and Authorization Rules

1. XML Output Initialization

•**Logic:** The program initializes the XML output structure before processing entries.

•**Files:**

•RXMLL1 (XML structure file)

•**Fields:**

•RXMLL1_HEAD (Header for XML)

•RXMLL1_LINJ (Line for XML)

•**Condition:** The XML output is initialized with the header set to 'HOVEDBOK'.

2. Firm Number Validation

•**Logic:** The program checks if the firm number matches the expected value before processing.

•**File:** RHTRL5 (Accounting entries file)

•**Field:** RHTRL5_FIRM

•**Condition:** The process will only continue if the firm number matches W_FIRMN.

Financial and Transactional Rules

1. Processing Accounting Entries

•**Logic:** The program processes each accounting entry and generates corresponding XML lines.

•**File:** RHTRL5 (Accounting entries file)

•**Fields:**

•RBBILN (Invoice number)

•RBBDAT (Invoice date)

•**Condition:** The process continues while there are entries to read and the invoice number matches the current processing invoice.

2. Finalizing XML Output

•**Logic:** The program writes the final lines of XML after processing all entries.

•**File:** RXMLL1 (XML structure file)

•**Condition:** The process will finalize the XML output when the end of the file is reached or when the operation type is 'E'.

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Special Conditions (Program-Specific)

1. Error Handling in XML Generation (AX003R)

•**Logic:** The program checks for specific conditions that would prevent XML lines from being generated.

•**File:** RXMLL1 (XML structure file)

•**Field:** AXMAOP

•**Condition:** If the operation type is 'X', the line is skipped and not written to XML. Note: This is a critical check to avoid invalid XML entries.

2. Handling Special Characters in XML (AX003R)

•**Logic:** The program replaces special characters in text fields with their XML-safe equivalents.

•**File:** RXMLL1 (XML structure file)

•**Fields:** TEXT

•**Condition:** The program processes text fields to ensure they are safe for XML output, replacing characters like <, >, &, etc.

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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 accounting entry.

•**Logic:** This subroutine generates XML lines based on the current entry data.

•**Impact:** This call acts as a **major logical gateway** for writing data to the XML output.

2. BehKonto (Account Processing)

•**Trigger:** Called for each account entry during the main processing loop.

•**Logic:** This subroutine handles the processing of individual account entries and generates corresponding XML.

•**Impact:** This is a **critical step** in ensuring all account details are captured in the XML output.

3. Redefnum (Number Formatting)

•**Trigger:** Called when formatting numeric fields for XML output.

•**Logic:** This subroutine ensures that numeric values are formatted correctly for XML.

•**Impact:** This is essential for maintaining data integrity in the XML output.

This documentation provides a comprehensive overview of the business logic implemented in the AX003R program, detailing the rules and processes involved in generating XML for accounting entries.