

BPA
Platform

Technical Overview

Convert Recordset to XML Tool

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Introduction






The **Convert Recordset to XML** Tool allows the conversion of one or more flat-structure BPA Platform recordsets into a hierarchical XML structure. This way, it is used to provide "translation services" between the standard BPA Platform tools, such as **Database Query (ODBC)**, and advanced BPA Platform tools that accept XML as their input.

Working with other Tools

The **Convert Recordset to XML** tool can directly interact with the following tools:

Consuming from Other Tools

The **Convert Recordset to XML** can directly consume objects outputted by the following tools:

Icon	Tool Name	Tool Category
	Database Query (ODBC)	Input and Data Connectors
	Database Query (OLEDB)	Input and Data Connectors
	Import Flat File	Input
	Convert XML to Recordset	Format
	Filter Data	General







Objects Consumed

The following objects, directly consumed by the Convert Recordset to XML tool, are outputted by the above tools:

- ▶ **Recordset** — Tabular data from any BPA Platform tool capable of exposing such data (see above)

Exposing to Other Tools

The **Convert Recordset to XML** exposes objects that can be directly consumed by the following tools:

Icon	Tool Name	Tool Category
	Call Stored Procedure (OLEDB)	Input, Data Connectors, Output, and Execute
	Retrieve Text Message	Input
	Format as Flat File	Format
	Run Microsoft Reporting Services	Format
	Transform Data	Format
	Applications Platform Connector	Data Connectors

Objects Exposed

The **Convert Recordset to XML** tool outputs the following objects which can be used by the above tools:

- ▶ **XML** — XML data from any BPA Platform tool capable of exposing such data (see above)
- ▶ **RecordSource** — If an **Input Recordset** has been selected (see [General tab](#)), this contains the columns included in the recordset
- ▶ **Step Properties** — Standard step properties are available allowing you to use statistical data of the tool

Global Configuration

The **Convert Recordset to XML** tool can be used immediately in a task as it does not require any global configuration.

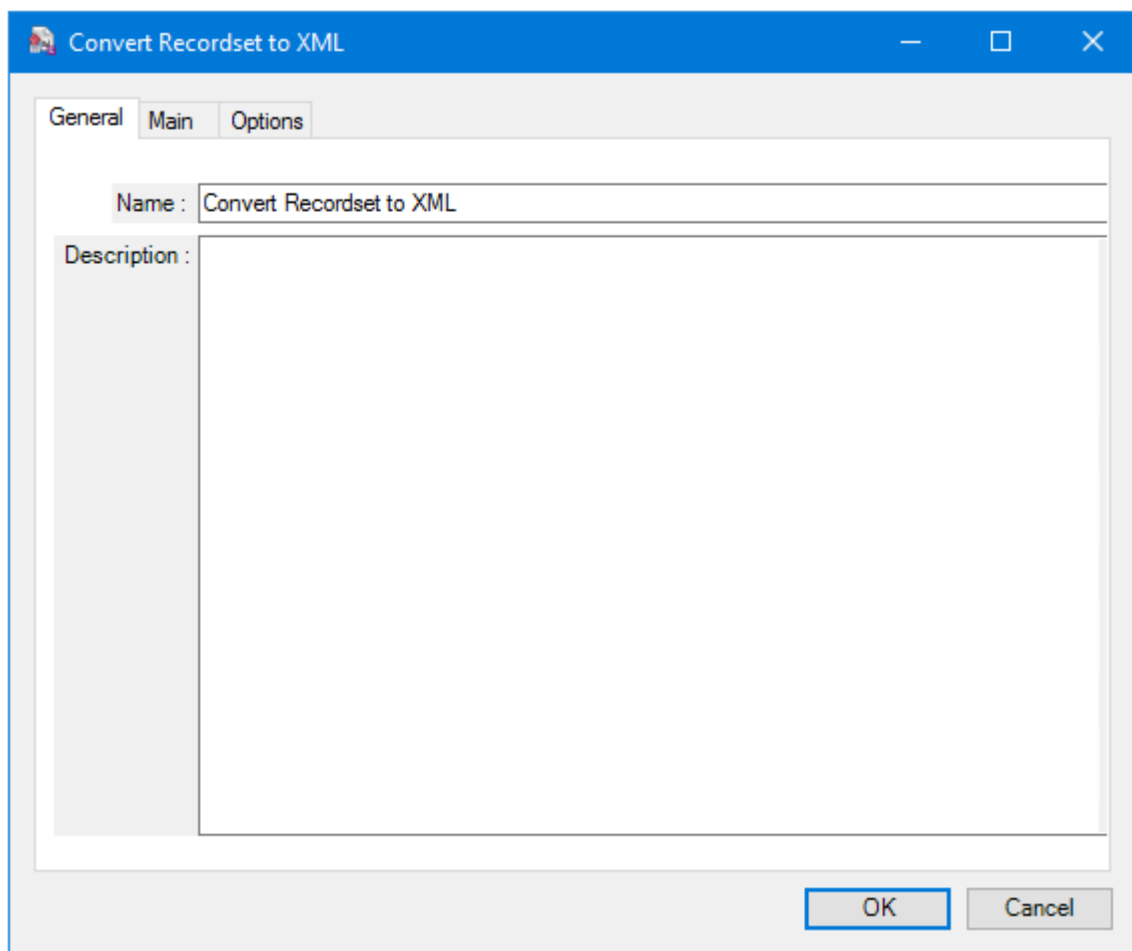
Step Configuration

To add a new **Convert Recordset to XML** step to an existing task, you either:

- ▶ Click and drag the **Convert Recordset to XML** icon from the **Task Browser** to the task **Design** area.
- ▶ From the task's **Design** tab, right-click on empty space and select **Add > Format > Convert Recordset to XML**.

For a detailed description of how to create new tasks, refer to the product help.

About the General Tab

The image shows a screenshot of a software dialog box titled "Convert Recordset to XML". The dialog has a blue header bar with standard window controls (minimize, maximize, close). Below the header, there are three tabs: "General", "Main", and "Options", with "General" being the active tab. The "General" tab contains a "Name" field with the text "Convert Recordset to XML" and a larger "Description" field which is currently empty. At the bottom right of the dialog, there are "OK" and "Cancel" buttons.

The **General** tab is used to enter the following details for the step:

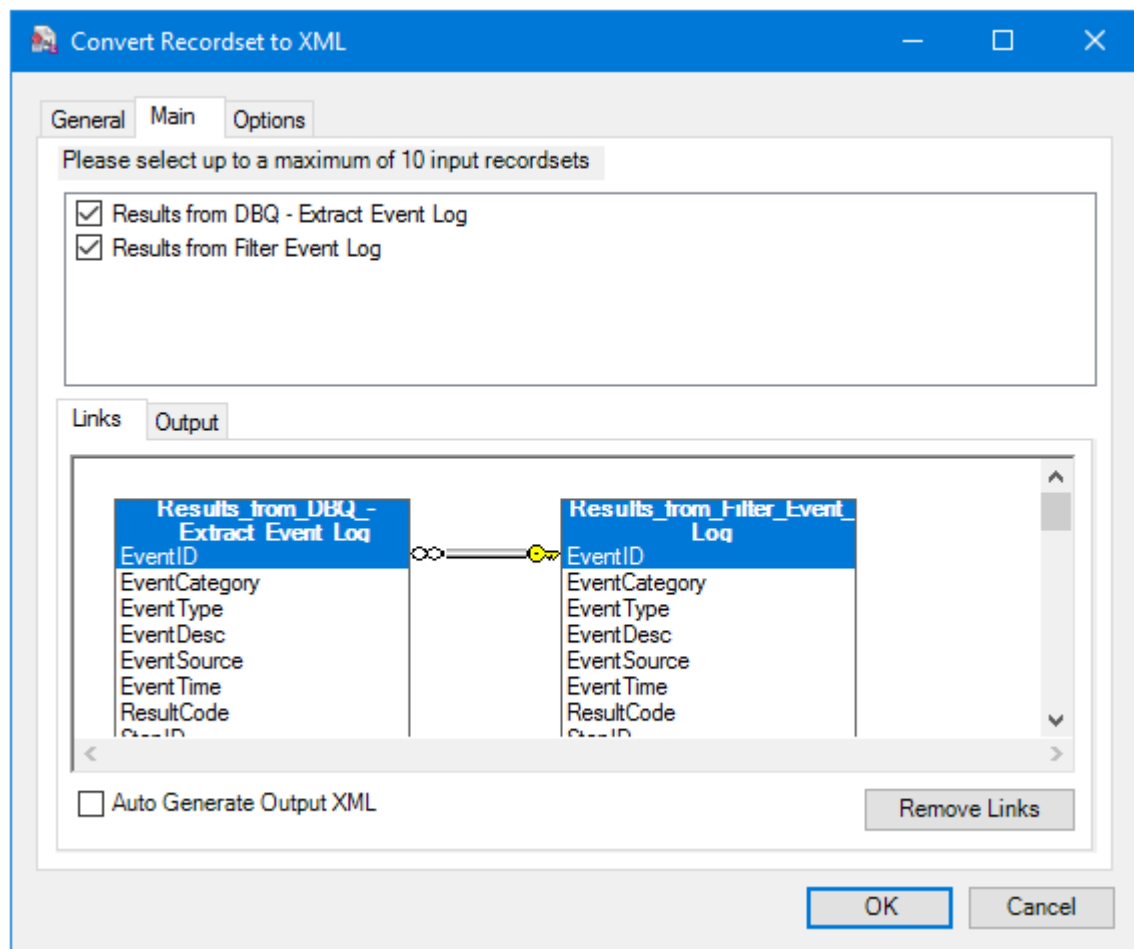
- ▶ **Name** — Enter a meaningful name for the step

TIP: If this task instance makes use of two or more **Convert Recordset to XML** steps, ensure the **Name** used is unique for each individual step.

► **Description** — If required, enter a description of this step

About the Main Tab

Use the **Main** tab to convert relevant recordset data to the required XML structure.

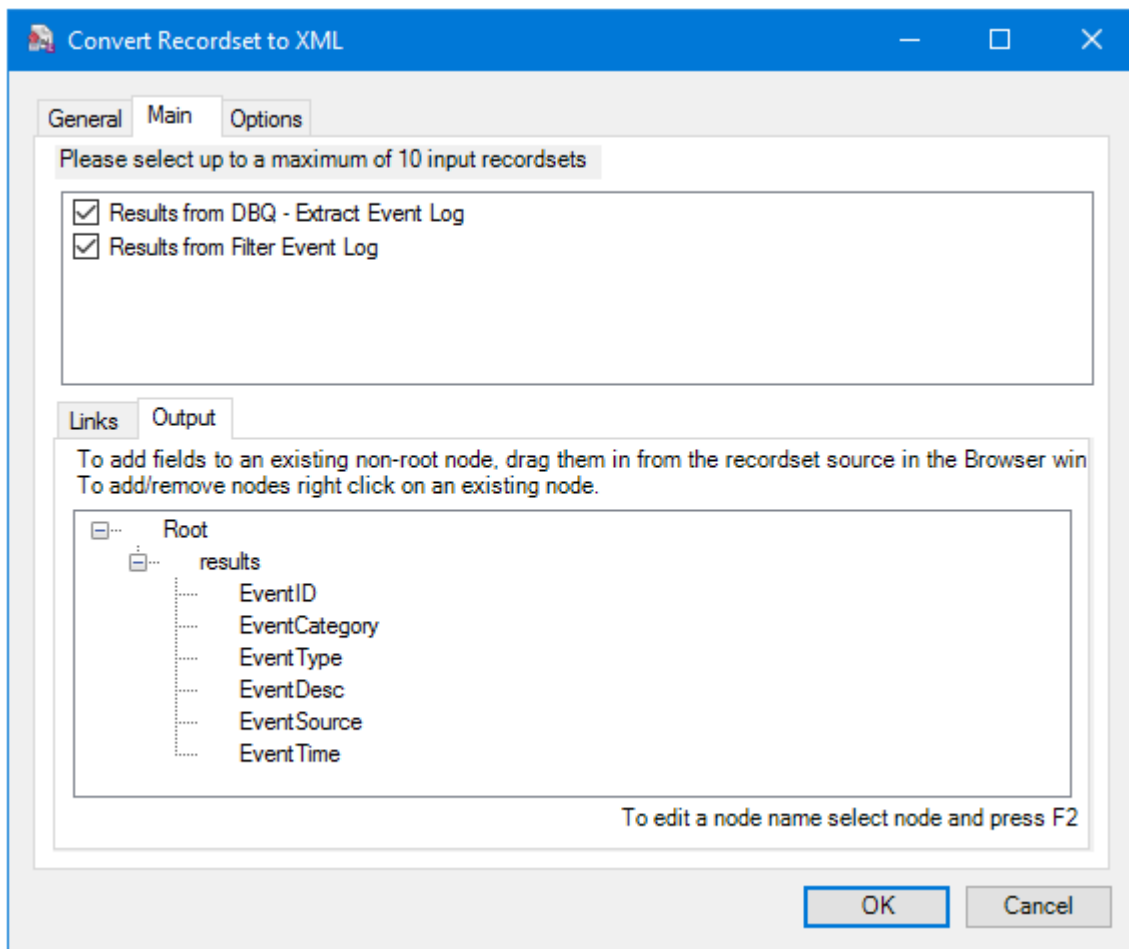


Select those recordsets that contain data that forms the eventual recordset data, up to a maximum of 10 recordsets.

Each selected recordset is displayed in the **Links** tab. Create links between each recordset by dragging fields from one recordset to another, similar to creating links between database tables in the **Database Query** tools.

Highlighting an individual links allows you to remove the link or reserve the direction of the link — the direction of the link determines which recordset's data forms child elements to another in the final XML structure. In the example above, recordsets from **Filter Event Log** form child elements to **DBQ - Extract Event Log**.

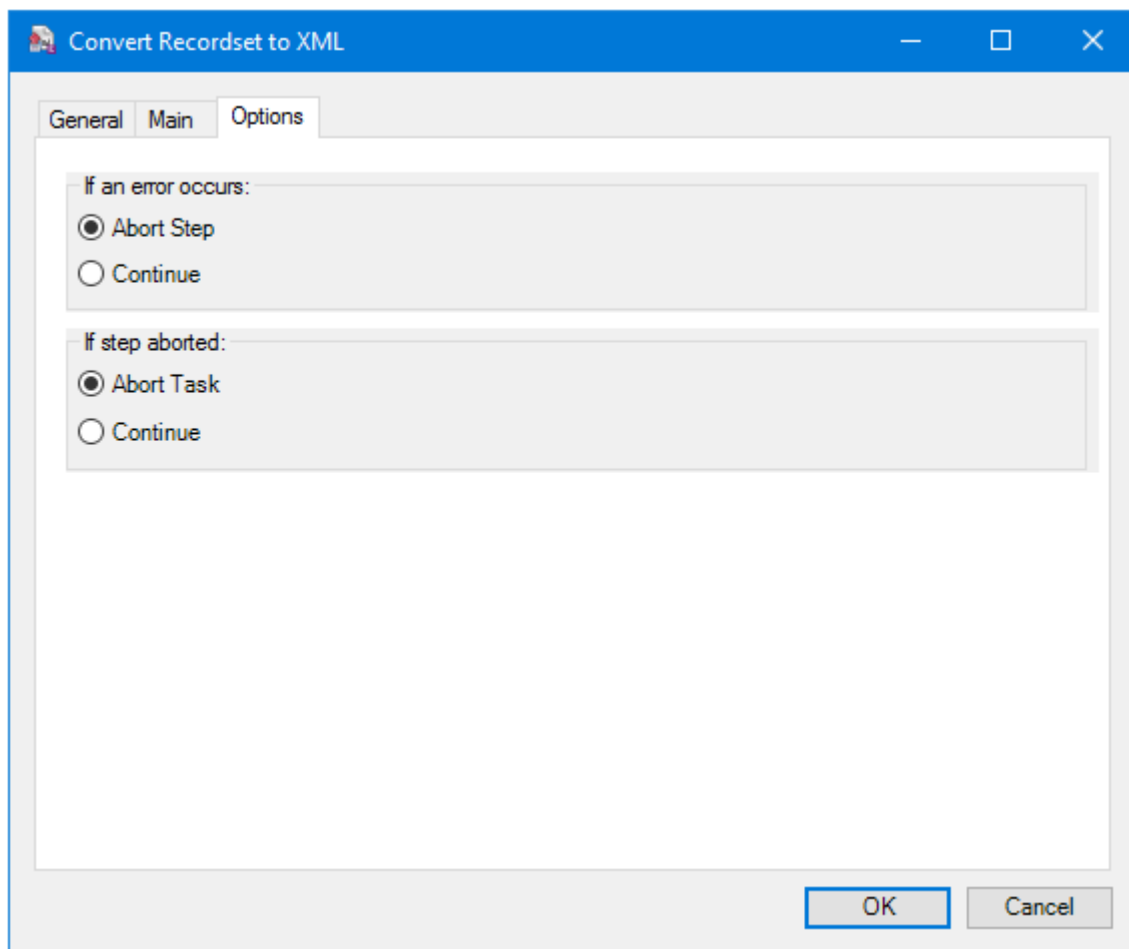
If all columns from all selected input recordsets form the XML structure, enable **Auto Generate Output XML** else clear the selection to create a custom XML structure. Go to the Output tab to view the auto-generated structure or to create your own.



If creating a custom XML structure, only the **Root** node is provided. Right-click on this and select **Add Node**. Name the node then you can drag **RecordSource** data from the Task Browser to the new node to create the XML elements.

About the Options Tab

The **Options** tab allows you to define how errors in this step are handled at task runtime.



If an error occurs, you can decide whether the step should **Continue** processing, or terminate the step immediately (**Abort Step**).

If the step is aborted, you can choose to **Continue** processing onto the next step in the task, or terminate the whole task immediately (**Abort Task**). By allowing the task to continue, you can use the error XML received back in a **Save File** step for investigation purposes, for example.

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