



**BPA**  
Platform

Technical Overview

# Import XML Document Tool

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# Introduction

The **Import XML Document** tool imports an XML document to be used and processed by other task steps. To validate the XML documents at runtime, you can either import an XML schema file (XSD), inferred from an existing XML document, or manually constructed.

## Features



- ▶ Browse for and select an XSD file to be used as the XML schema for the step
- ▶ Browse for and select an XML file to be used as the XML schema for the step and then automatically infer the schema from the XML file content
- ▶ Copy and paste valid XML into the step and then automatically infer the schema from the XML content
- ▶ Validate the schema once prepared
- ▶ Manually create a new schema or edit an existing one
- ▶ Specify the source file properties to be extracted at Task run-time and exposed to other steps through the Task Browser
- ▶ Preview the schema structure before saving and running the task
- ▶ Output XML for use by other task steps
- ▶ Output XML as a string for use by other task steps
- ▶ ODBC, OLEDB or Call Stored Procedure memory definitions can be created for the step

## Working with other Tools

The **Import XML Document** tool can directly interact with the following tools:

### Consuming from Other Tools

The **Import XML Document** tool can consume objects directly outputted by the following tools:

Icon	Tool Name	Tool Category
	Import Flat File	Input
	Import XML Document	Input






### Objects Consumed






The above tools output the following objects with can be directly consumed by the **Import XML Document** tool:

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

### Exposing to Other Tools

The following tools can directly consume output from the **Import XML Document** tool:

Icon	Tool Name	Tool Category
	Import Flat File	Input
	Import XML Document	Input
	Retrieve Text Message	Input
	Convert XML to Recordset	Format
	Format as Flat File	Format

Icon	Tool Name	Tool Category
	Run Microsoft Reporting Services	Format
	Transform Data	Format
	Save File	Output
	File Management	General
	Applications Platform Connector	Data Connectors

## Objects Exposed

The following objects are outputted by the **Import XML Document** tool and can be directly consumed by the above tools:

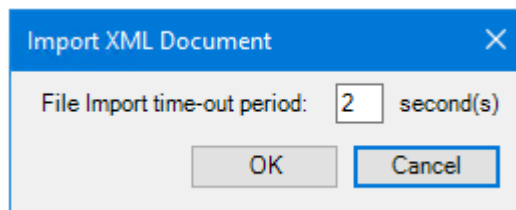
- ▶ **InputData** — This object is only available if an XML file is consumed from a previous task step. It contains the imported XML.
- ▶ **FileProperties** — This object exposes the source file's **Name**, **Size**, **Type**, **DateModified**, **DateCreated**, **DateAccessed**, and **Attributes** properties collected at task run-time. You can set which properties are exposed in the [File Properties](#) dialog box.
- ▶ **OutputXML** — This object exposes two sub-objects:
  - ☐ **Output Schema** — This contains the XSD file for the output
  - ☐ **Output XML** — This contains the XML produced by the **Import XML Document** tool
- ▶ **ImportedFileDetails** — This object exposes two sub-objects:
  - ☐ **Path** — Whether the XML document was specified or sourced from a previous task step, this is the folder path of the imported XML document
  - ☐ **FileName** — Whether the XML document was specified or sourced from a previous task step, this is the imported XML document

## Setting the Import Time-Out

You can set the time out period for how long the **Import XML Document** tool attempts to import a file. If the file cannot be imported, after the expiry time, an error is written to the Event Log.

You open the **Import XML Document** time out dialog box by either:

- ▶ Going to **Manage > Tools > Input > Import XML Document**
- ▶ From the Task Manager, expanding **BPA Platform > System > Tools > Input** and double-clicking **Import XML Document** in the Items List



Set the import time-out period; the default is 2 seconds.

## Step Configuration

To add a new **Import XML Document** step to an existing task, you either:

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

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

## About the General Tab

The screenshot shows the 'Import XML Document' dialog box with the 'General' tab selected. The dialog has three tabs: 'General', 'Main', and 'Options'. The 'General' tab contains the following fields and controls:

- Name:** A text box containing 'Import XML Document'.
- Description:** A large text area for entering a description.
- ☐ **File Name and Path from previous step**: A checkbox that is currently unchecked.
- Source:** A dropdown menu.
- Path:** A text box containing 'C:\Users\Administrator\Desktop' and a 'Browse...' button.
- File Name:** A text box containing 'dataset.xml' and a 'Browse...' button.
- A note below the Path field: 'An entered file name can contain wildcard characters e.g. \*order.xml'.
- OK** and **Cancel** buttons at the bottom right.

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

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

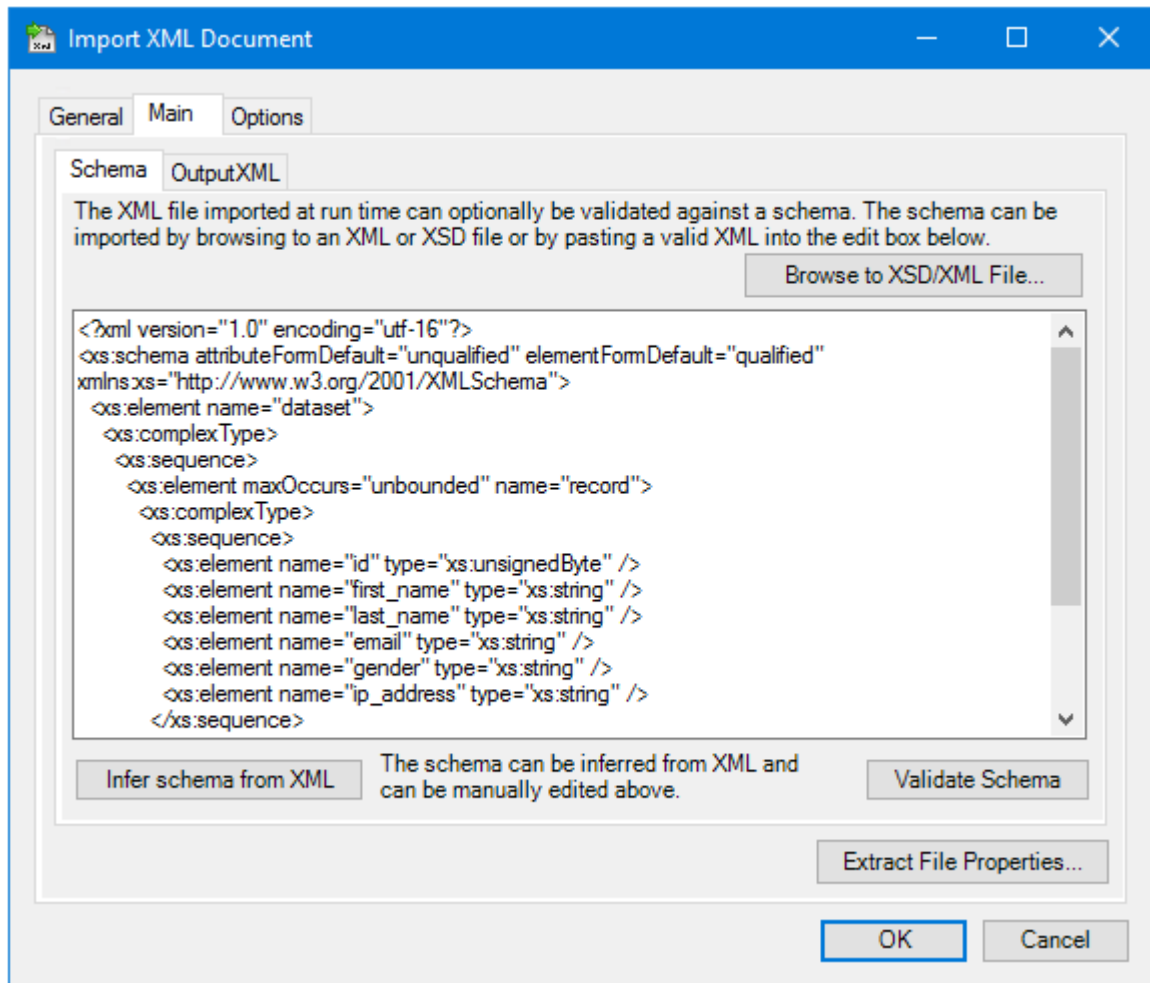
**TIP:** If this task instance makes use of two or more **Import XML Document** steps, ensure the **Name** used is unique for each individual step.

- ▶ **Description** — If required, enter a description of this step
- ▶ **File name and path from a previous step** — Enable this option to import an XML document previously imported by another task step
  - ☐ **Source** — Contains all available task steps that have previously imported an XML document
- ▶ **Path** — The full folder path to the location of the XML document; you must ensure the logged in Windows user has read access to the folder specified here
- ▶ **File Name** — The XML document to be imported; use wildcards to import multiple documents at task run-time



## About the Main Tab

If required, you can define a XML schema in the **Main** tab to validate the imported XML document. The **Import XML Document** tool adheres to the industry-standard XSD format.



### Defining the XML Schema

You can define the schema by:

- ▶ Manually entering it into the text box
- ▶ Importing an existing XSD file — click **Browse to XSD/XML File**

Click **Validate Schema** to ensure no errors exist in the XSD file prior to run-time.

### Inferring the XML Schema

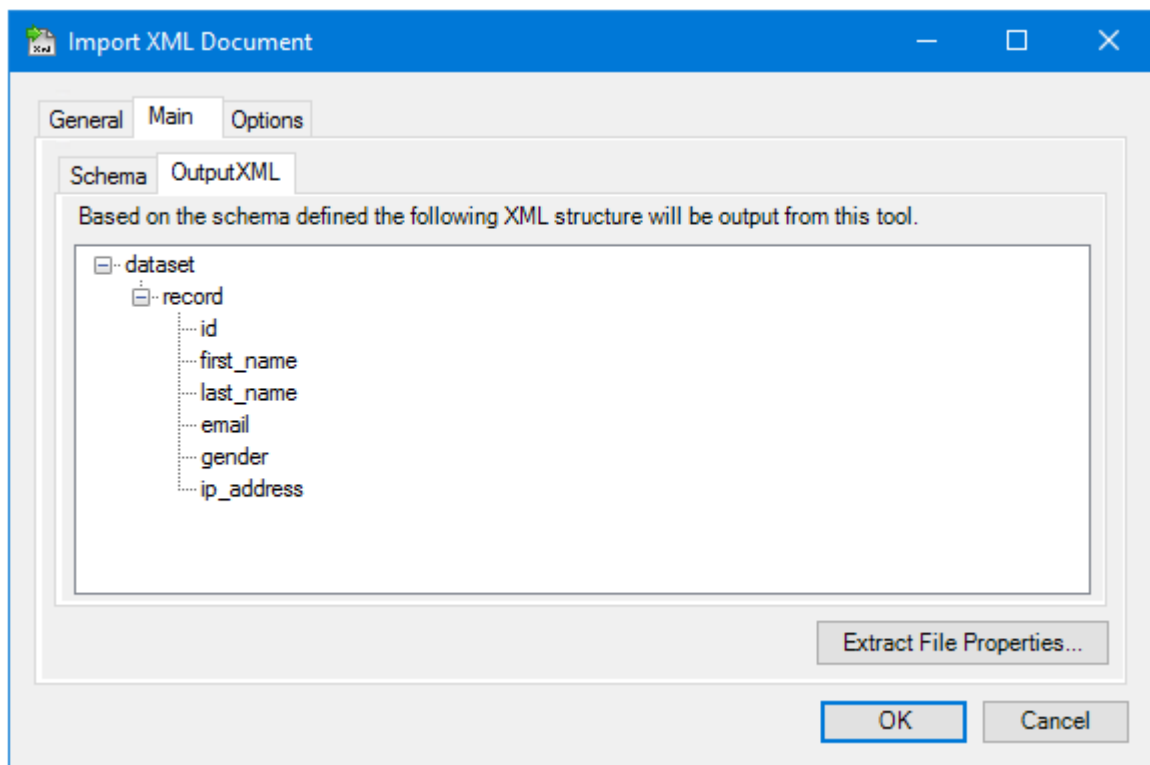
Alternatively, the **Import XML Document** tool can infer the schema from a sample XML document. If you have an example of the XML document imported at run-time, either:

- ▶ Copy it into the text box
- ▶ Import it into the tool — click **Browse to XSD/XML File**

Click **Infer Schema from XML** to define the XSD file, then click **Validate Schema** to ensure no errors exist in the XSD file prior to run-time.

### Viewing the Output XML Structure

Once the XML schema has been defined, you can view the expected XML structure in the **OutputXML** tab:



## Extracting File Properties

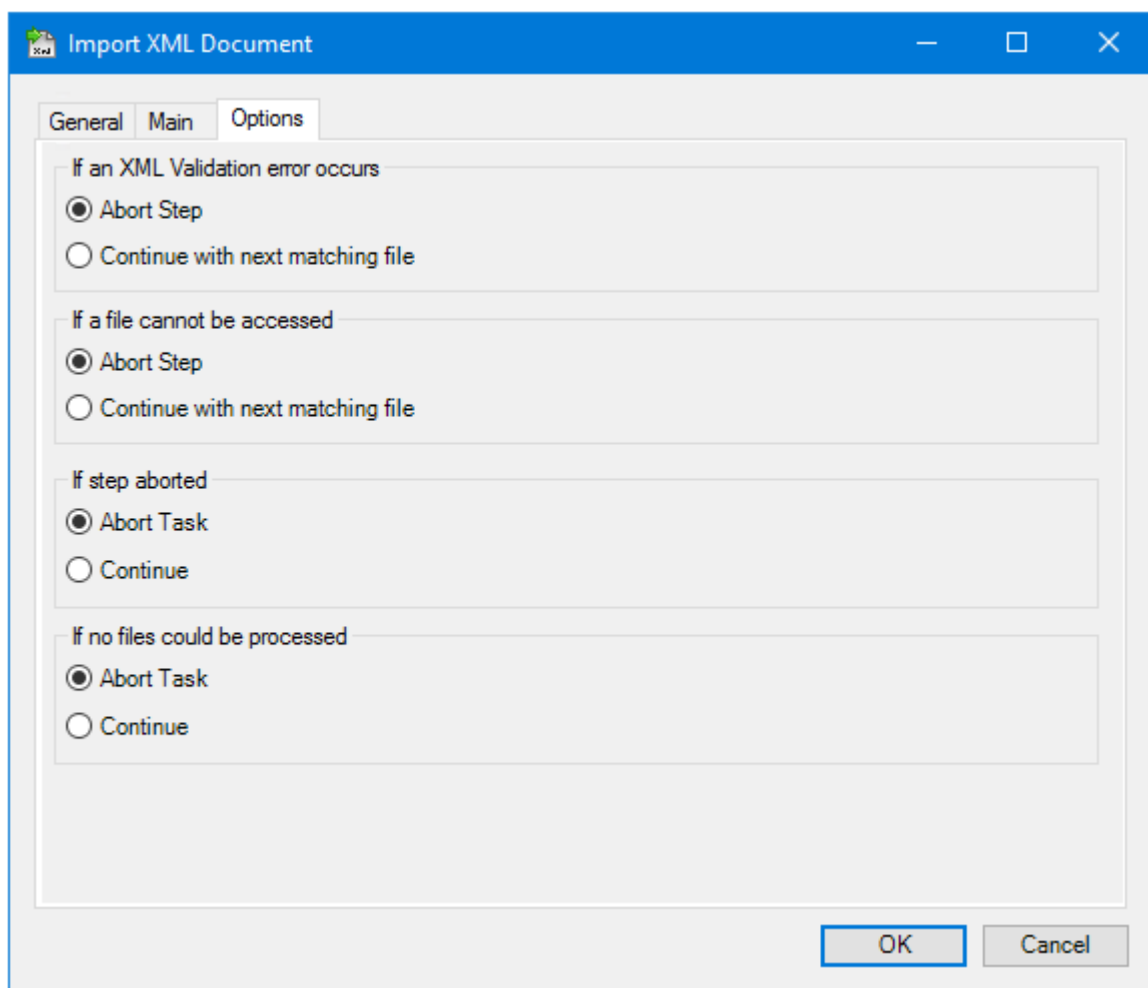
If required, you can specify which of the imported XML document's file properties are made available in the Task Browser at run-time:

- ▶ Name
- ▶ Size
- ▶ Item type
- ▶ Date modified
- ▶ Date created
- ▶ Date accessed
- ▶ Attributes

Click **Extract File Properties**.

## About the Options Tab

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



If an **XML validation error occurs** when processing the current XML document, you can choose to either **Abort Step** regardless of whether there are unprocessed files remaining or **Continue with the next matching file**. If there are no more matching files, the step is completed.

If a **file cannot be accessed**, you can choose to either **Abort Step** regardless of whether there are unprocessed files remaining or **Continue with the next matching file**. If there are no more matching files, the step is completed.

If either of the above options are set to **Abort Step**, you can choose what happens to the whole task itself with the next option set:

- ▶ 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**).

If the **Import XML Document** step has attempted to process all available XML documents and has failed (**Continue with next matching file** has been selected from the previous option sets), you can choose what happens to the whole task itself with the next option set:

- ▶ If **no files could be processed**, you can choose to **Continue** processing onto the next step in the task, or terminate the whole task immediately (**Abort Task**).

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