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Introduction

The **Run External Program** tool runs self-terminating shell executable programs including .exe or .bat for example, or any file type that is associated with such a shell executable program. Programs can either be existing programs that exhibit the right attributes or programs specially created to provide integration with proprietary protocols, systems or applications.

NOTE: Executables that launch a graphical user interface cannot be used by the **Run External Program** tool. This is due to a Windows Server restriction.

As well as the flexibility to create a program that performs virtually any operation, the behaviour of the program can also be controlled dynamically at run-time. To enable this, the step can pass static or dynamic command-line parameters to the program when run. The program can be run once or multiple times, depending on configuration.

Recordsets from an Input step, such as **Database Query (ODBC)**, or document source recordsets from a Format step, such as an **Format as HTML** or **Format as Text** can be used to provide the values of dynamic data.

Features

- Run any self-terminating shell executable (.exe, .bat, .com, and so on)
- Run files associated with self-terminating shell executables
- Pass static or dynamic command-line parameters
- Use source data from other actions
- Execution failure options
- Memory features to memorise task data created at run-time

Working with other Tools

The **Run External Program** tool can directly interact with the following tools:

Consuming from Other Tools

The **Run External Program** can consume the output from 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
14	Create Workflow Job	Format
	Format as Flat File	Format
0 =	Format as HTML	Format
	Format as HTML Pro	Format
	Format as Text	Format
.	Run Crystal Report	Format
A	Run Microsoft Reporting Services	Format

Icon	Tool Name	Tool Category
W	Run Microsoft Word (Merge)	Format
	Filter Data	General

Objects Consumed

The following objects are exposed by the above tools and can be consumed by the **Run External Program** tool:

- **Recordset** Tabular data outputted by Input steps
- **Documents (Text)** Documents outputted by Format steps

Exposing to Other Tools

As an Output category tool, **Run External Program** does not expose any objects that can be directly consumed by another tool. However, it does expose the following objects which can be used in a task step sequence:

- **RecordSource** If an **Input Recordset** has been selected (see <u>General tab</u>), this contains the columns included in the recordset
- **DocumentSource** If a **Document Source** has been selected (see <u>General tab</u>), this contains the data in the document as recordset columns
- **Memory Definitions** If configured, this is a list of **Memory Definitions** created for the step and the recordset columns to be memorised for each one
- Step Properties Standard step properties are available allowing you to use statistical data of the tool

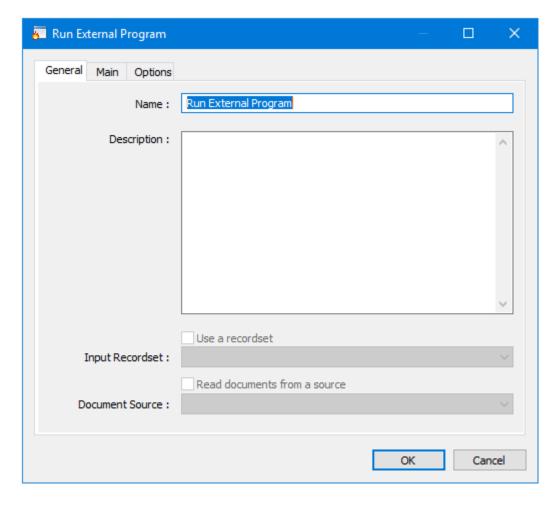
Step Configuration

To add a new **Run External Program** step to an existing task, you either:

- Click and drag the **Run External Program** icon from the **Task Browser** to the task **Design** area.
- From the task's **Design** tab, right-click on empty space and select **Add > Execute > Run External Program**.

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

About the General Tab



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

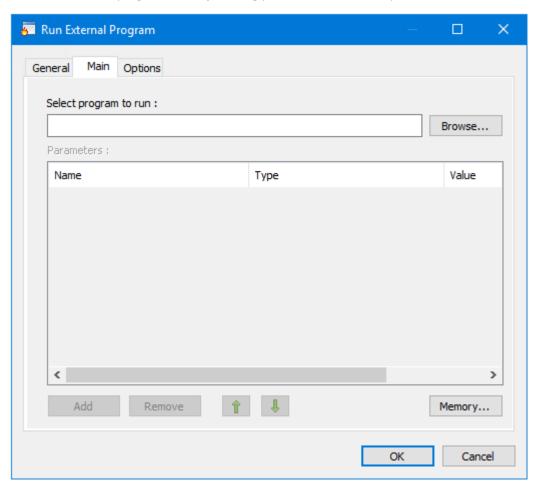
Name — Enter a meaningful name for the step

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

- **Description** If required, enter a description of this step
- **Use a Recordset** Enable this parameter if recordset data from a previous task step is required when running the external program
 - ☐ Input Recordset Contains all available recordsets from steps previously created in the task
- **Read documents from a source** Enable this parameter if document data from a Format task step is required when running the external program
 - **Document Source** Contains all available documents from Format steps previously created in the task; note that the document format is displayed after the step name

About the Main Tab

Use the **Main** tab to define the program and any running parameters for this step.



The tab contains the items listed below.

Select program to run — Provide the full path and filename of the program. At the time of writing, using remote programs is not supported.

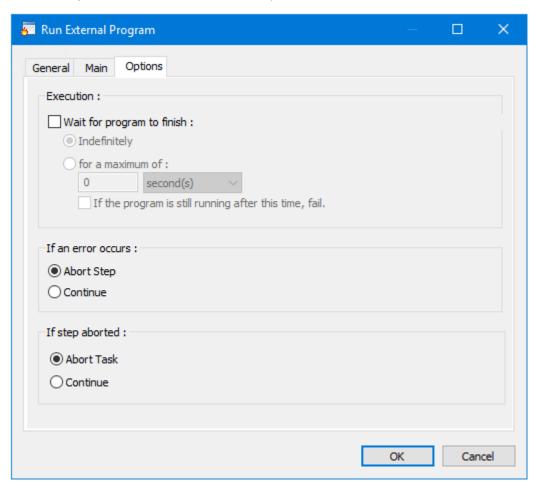
NOTE: When defining pathnames to executables or files, ensure that the string is enclosed within double quotes, for example, "C:\Windows\System32\WindowsPowerShell\v1.0\powershell.exe". This also applies to any strings used for parameter information.

•	Parameters — These are the parameters used by the program defined previously:			
		Name — The parameter name in human-readable form (read-only).		
		Type — The data type of the parameter. At the time of writing, only BSTR (basic string) is supported.		
		Value — The parameter value. You can either manually enter a value or drag-and-drop fields and properties from the Task Browser.		

- **Add** Use to add a new parameter **Name**.
- **Remove** Removes the highlighted parameter.
- **Up and Down Arrows** Re-orders the parameters as required. Each parameters is "called" in the order specified.
- **Memory** Use **Memory** to memorise some or all of the step output for use in other task steps. This is particularly useful when the **Run External Program** step is called multiple times use **Memory** to compare the record previously processed to the new record currently being processed to avoid duplicates.

About the Options Tab

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



Enabling **Wait for program to finish** forces the step to not complete until one of the following conditions have been met:

- Indefinitely The step waits until notified by the program that is has finished before continuing itself
- for a maximum of: Select this option to enter a maximum time period to wait
 - ☐ If the program is still running after this time, fail If required, select this option to fail the execution after the above time period has expired

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**).

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