Workflow Activity Types

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# Activity

A step in a workflow, from basic operations to workflows themselves

# Adjust Date

Adjust a Date/Time by a specified amount of years, months, days, hours, minutes or seconds.

**Input Arguments:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | **Description** | **Type** | **Mandatory** |
| Adjust Days | Adjust the days in the Date/Time by the supplied amount. | List of String |  |
| Adjust Hours | Adjust the hours in the Date/Time by the supplied amount. | List of String |  |
| Adjust Minutes | Adjust the minutes in the Date/Time by the supplied amount. | List of String |  |
| Adjust Months | Adjust the months in the Date/Time by the supplied amount. | List of String |  |
| Adjust Seconds | Adjust the seconds in the Date/Time by the supplied amount. | List of String |  |
| Adjust Years | Adjust the years in the Date/Time by the supplied amount. | List of String |  |
| Input Date/Time | Date/Time to ajust | List of String | True |

**Output Arguments:**

|  |  |  |
| --- | --- | --- |
| Name | **Description** | **Type** |
| Adjusted Date/Time | The Adjusted Date/Time | List of String |

# Approval Activity

Create a task for a user to provide an approval.

**Input Arguments:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | **Description** | **Type** | **Mandatory** |
| Assigned To | The person who will be doing the approving. | List of String | True |
| Description | The description of the approval request. | List of String | True |
| Item To Approve | When set this item will shown to the approving user for approval. | List of String |  |
| Name | The name of the approval request. | List of String | True |
| Timeout (Minutes) | The amount of time in minutes before an approval times out. | List of String |  |

**Output Arguments:**

|  |  |  |
| --- | --- | --- |
| Name | **Description** | **Type** |
| User Task | the user task created for the approval | List of String |

# Assign to Variable

Activity to assign the result of an expression to a variable.

**Input Arguments:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | **Description** | **Type** | **Mandatory** |
| Value | Value to be assigned to variable. | List of String | True |

# Clone

Clone an entity. If a type is specified only the field and relationships that are common to both types are copied.

**Input Arguments:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | **Description** | **Type** | **Mandatory** |
| Definition of new Resource | The definition for the new object | List of String |  |
| Resource to Clone | The resource that is to be cloned | List of String | True |

**Output Arguments:**

|  |  |  |
| --- | --- | --- |
| Name | **Description** | **Type** |
| Cloned Resource | The new resource that has been created | List of String |

# Create

Create a resource of the specified type

**Input Arguments:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | **Description** | **Type** | **Mandatory** |
| Definition | Definition of the resource to create | List of String | True |
| Description | The description of the newly created resource | List of String | False |
| Name | The name of the newly created resource | List of String | False |

**Output Arguments:**

|  |  |  |
| --- | --- | --- |
| Name | **Description** | **Type** |
| Created Resource |  | List of String |

# Create Link

Create a URL link that points to the selected Item.

**Input Arguments:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | **Description** | **Type** | **Mandatory** |
| Resource | The selected resource | List of String | True |

**Output Arguments:**

|  |  |  |
| --- | --- | --- |
| Name | **Description** | **Type** |
| Link | A anchor tag pointing to the Resource, suitable for embedding in email. | List of String |
| URL | The URL link pointing to the Resource. | List of String |

# Date Difference

Calculate the difference between a start and end Date/Time in total days, total hours, total minuts and total seconds.

**Input Arguments:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | **Description** | **Type** | **Mandatory** |
| End Date/Time | The End Date/Time | List of String |  |
| Start Date/Time | The start Date/Time | List of String | True |

**Output Arguments:**

|  |  |  |
| --- | --- | --- |
| Name | **Description** | **Type** |
| Total Days | The total number of days including fractions between the start and end dates as a decimal. | List of String |
| Total Hours | The total number of hours including fractions between the start and end dates as a decimal. | List of String |
| Total Minutes | The total number of minutes including fractions between the start and end dates as a decimal. | List of String |
| Total Seconds | The total number of seconds including fractions between the start and end dates as a decimal. | List of String |

# Delete

Delete the specified resource

**Input Arguments:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | **Description** | **Type** | **Mandatory** |
| Resource to delete |  | List of String |  |

# For Each Resource

Iterate a list of resources. This activity takes a list of resources as an initial input. Each time the workflow returns to the activity a new entry from the list is passed into the 'Selected Resource' output.

**Input Arguments:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | **Description** | **Type** | **Mandatory** |
| List | The list of resources to iterate over. | List of String | True |

**Output Arguments:**

|  |  |  |
| --- | --- | --- |
| Name | **Description** | **Type** |
| Selected Resource | The resource that has been selected for the current iteration. | List of String |

# Gateway

Activity to make a yes/no decision. The default exit point corresponds to a "yes".

**Input Arguments:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | **Description** | **Type** | **Mandatory** |
| DecisionArgument | This argument is used during expression evaluation | List of String |  |

# Get Current Date/Time

Retrieve the current Date and Time from the system.

**Output Arguments:**

|  |  |  |
| --- | --- | --- |
| Name | **Description** | **Type** |
| Current Date | The current Date | List of String |
| Current Date/Time | The current Date/Time | List of String |
| Current Time | The current Time | List of String |

# Get Resources

Get all the resources of a specified type or a selected by a given report.

**Input Arguments:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | **Description** | **Type** | **Mandatory** |
| Report | The type of resource that is being read. | List of String |  |
| Type | Resource type to get all the resources for. | List of String |  |

**Output Arguments:**

|  |  |  |
| --- | --- | --- |
| Name | **Description** | **Type** |
| Count | The number of resources obtained. | List of String |
| First Resource | The first available resource | List of String |
| List | The list of resources. | List of String |

# Log

Record the provided message in the system log. Use for internal development only.

**Input Arguments:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | **Description** | **Type** | **Mandatory** |
| Message | Message to record in to the system log. | List of String | True |

# Matches Definition

Determine if the provided Resource is of the specified Definition

**Input Arguments:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | **Description** | **Type** | **Mandatory** |
| Definition | The defintion to use | List of String | True |
| Resource | The resource to examine | List of String | True |

**Output Arguments:**

|  |  |  |
| --- | --- | --- |
| Name | **Description** | **Type** |
| Result | True if the Resource matches the Definition. | List of String |

# Read Field

This activity reads the specified field on the resource

**Input Arguments:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | **Description** | **Type** | **Mandatory** |
| Field to read | The field to be read on the selected resource. | List of String |  |
| Resource to read | The selected resource to be read. | List of String |  |

**Output Arguments:**

|  |  |  |
| --- | --- | --- |
| Name | **Description** | **Type** |
| Is Empty | True if the system does not contain a value. | List of String |
| Value | The value read from the field on the selected resource. | List of String |

# Read Relationship

This activity gets the related resources for a specific relationship

**Input Arguments:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | **Description** | **Type** | **Mandatory** |
| Read relationship in reverse direction | When true, the relationship is followed in the reverse direction. | List of String |  |
| Relationship to Read | The relationship to read on the selected resource. | List of String |  |
| Resource to Read | The selected resource to be read. | List of String |  |

**Output Arguments:**

|  |  |  |
| --- | --- | --- |
| Name | **Description** | **Type** |
| Count | The number of related resources in the list. | List of String |
| First Resource | The first available resource for the relationship, if any | List of String |
| List | The list of resources that were read from the relationship. | List of String |

# Run Workflow

Run another workflow and wait for the results.

# Send email activity

This activity emails the specified person

**Input Arguments:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | **Description** | **Type** | **Mandatory** |
| Body | The main body of text for the email. | List of String |  |
| Recipient Address | The email address of the intended recipient. | List of String |  |
| Subject | The email subject field. | List of String |  |

# Set Choice

Set a choice field. If the field allows multiple options, either replace or or add to the selected options.

**Input Arguments:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | **Description** | **Type** | **Mandatory** |
| Field to Update | The field to update on the resource. | List of String | True |
| New Value | The new value. | List of String |  |
| Replace Existing Values | When set to true, any existing choices will be removed. | List of String |  |
| Resource to Update | The resource to update. | List of String | True |

# Set Relationship

Set a relationship. If the relationship allows multiple relationships, either replace or or add.

**Input Arguments:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | **Description** | **Type** | **Mandatory** |
| (Internal) Is this a reverse relationship | (Internal argument) Is this a reverse relationship? | List of String |  |
| Destination | The resource that the relationship ends at. To clear the relationship leave this blank. | List of String |  |
| Origin | The resource that the relationship starts at. | List of String | True |
| Relationship | The relationship to add. | List of String | True |
| Replace Existing Destination | When set to true, any existing choices will be removed of the relationship allows multiple destinations. | List of String |  |

# Split Date/Time

Split a Date/Time into its component parts.

**Input Arguments:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | **Description** | **Type** | **Mandatory** |
| Date/Time to Split | The Date/Time to be split | List of String |  |

**Output Arguments:**

|  |  |  |
| --- | --- | --- |
| Name | **Description** | **Type** |
| Day | The Day component of the Date/Time as a number | List of String |
| Hour | The Hour component of the Date/Time as a number | List of String |
| Minute | The Minute component of the Date/Time as a number | List of String |
| Month | The Month component of the Date/Time as a number | List of String |
| Second | The Second component of the Date/Time as a number | List of String |
| Year | The Year component of the Date/Time as a number | List of String |

# Switching Gateway

Activity to switch between one of a number of different paths based upon an input string.

**Input Arguments:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | **Description** | **Type** | **Mandatory** |
| Value to Switch On | The value of this argument is used to determine which path is followed. The value must match the name of the exit point. | List of String |  |

# Update Field

This activity updates the specified field on the resource passed into the activity

**Input Arguments:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | **Description** | **Type** | **Mandatory** |
| Field to update | The field on the selected resource to be updated. | List of String |  |
| Resource to update | The resource to be updated | List of String |  |
| Value |  | List of String |  |

# Workflow