1. Attachments Folder Download
   * Move or copy attachments to a specific folder of the repository and eventually remove their reference from the process
   * Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Description** | **Required?** |
| workitemId | String | Object Id of the current work item | yes |
| FOLDER\_PATH | String | Folder location of the Folder in the repository ex. “/Cabinet/FolderA/FolderB” | yes |
| FOLDER\_NAME | String | Name of the Folder inside of the Folder path | yes |
| CREATE\_FOLDER | Boolean | Creates folder if does not exist. Set to false by default | no |
| MOVE | Boolean | Moves or Copy attachments to new folder.  false = Copy  true = Move  Set to false by default | no |
| REMOVE\_FRM\_WF | Boolean | Remove attachments from workflow. Set to false by default | no |

1. CSV to XML Transformation
   * Transform an Excel sheet previously saved as CSV (Comma Separated Value) in an XML file and attached the resulting file to a package
   * XML structure is table-like
     + A <Rows> tag contain many <Row> tags each one containing many <Column> tags
     + Name of the column can be set
   * Resulting XML file can be modified with an XSLT transformation in the process
   * Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Description** | **Required?** |
| workitemId | String | Object Id of the current work item | yes |
| CSV\_PACKAGE\_NAME | String | Name of the Package containing the CSV file | yes |
| XML\_DOCUMENT\_PATH | String | The desired folder location of the Folder in the repository ex. “/Cabinet/FolderA/FolderB” | yes |
| XML\_DOCUMENT\_NAME | String | Desired name of the converted csv file | yes |
| SKIP\_EMPTY\_LINES | Boolean | Set to false by default | No |
| FIRST\_ROW\_COLUMNS | Boolean | Is the first row of the csv file columns? Set to false by default | Yes |
| COLUMN\_PREFIX | String | If not first row, name column prefix | Yes, if FIRST\_ROW\_COLUMNS = false |
| KEY\_COLUMN\_POSITION | String | Key column position (0-based) | Yes |
| SEPARATE\_CHAR | String | Separate Character (delimiter) | Yes |
| XML\_PACKAGE\_NAME | String | Attach new created xml to package in workflow. | No |

1. Document Copy
   * Copy or move a document on the repository in a new location
   * Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Description** | **Required?** |
| workitemId | String | Object Id of the current work item | yes |
| SOURCE\_DOCUMENT\_PATH | String | The folder location of the source in the repository ex. “/Cabinet/FolderA/FolderB” | yes |
| SOURCE\_DOCUMENT\_NAME | String | Name of the source file | yes |
| TARGET\_DOCUMENT\_PATH | String | The desired folder location of the target in the repository ex. “/Cabinet/FolderA/FolderB” | yes |
| TARGET\_DOCUMENT\_NAME | String | Desired name of the target file | yes |
| MOVE | Boolean | Moves or Copy attachments to new folder.  false = Copy  true = Move  Set to false by default | no |

1. Document Creation
   * Create a new document in the repository of the specified content type
   * In case of text file its content can be set
   * Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Description** | **Required?** |
| workitemId | String | Object Id of the current work item | yes |
| DOCUMENT\_PATH | String | The folder location in the repository ex. “/Cabinet/FolderA/FolderB” | yes |
| DOCUMENT\_NAME | String | Name of the file | yes |
| DOCUMENT\_TYPE | String | Document Type | yes |
| CONTENT\_TYPE | String | Content Type | yes |
| CONTENT\_TEXT | String | Content Text | yes |

1. Document Lifecycle Application
   * Apply a lifecycle to a document on the repository
   * Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Description** | **Required?** |
| workitemId | String | Object Id of the current work item | yes |
| PACKAGE\_NAME | String |  |  |
| DOCUMENT\_PATH | String |  |  |
| DOCUMENT\_NAME | String |  |  |
| POLICY\_ID | IDfId |  |  |
| STATE | String |  |  |
| SCOPE | String |  |  |

1. Document Lifecycle Motion
   * Promote or demote a lifecycle associated to a document on the repository
   * Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Description** | **Required?** |
| workitemId | String | Object Id of the current work item | yes |
| DOC\_PATH | String | Location of the document | yes |
| LC\_MOTION | Boolean | true = Promote  false = Demote  set to false by default | yes |
| LC\_STATE | String | State | no |
| LC\_OVERRIDE | Boolean | Force Motion; set to false by default | no |

1. Documents Copy
   * Copy documents of a specified type contained in a specific folder on the repository in a new location
   * Content type of target documents can be modified
   * Copies can be attached to a package
   * Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Description** | **Required?** |
| workitemId | String | Object Id of the current work item | yes |
| SOURCE\_PATH | String | Path of source in repository | yes |
| TARGET\_PATH | String | Path of target in repository | yes |
| DOCUMENT\_ACTION | String | MOVE = move documents from source to target  COPYSOURCE = copy documents from source to target  COPYTARGET = copy documents from target to source | yes |
| SOURCE\_TYPE | String | Object\_type of docs in source folder; set to dm\_document by default | no |
| TARGET\_TYPE | String | Object\_type of docs in target folder | Yes |
| PACKAGE\_NAME | String | Name of the package to attach docs to | No |

1. Folder Copy
   * Copy or move documents of contained in a specific folder on the repository in a new location
   * Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Description** | **Required?** |
| workitemId | String | Object Id of the current work item | yes |
| SOURCE\_PATH | String | Source Path | Yes |
| TARGET\_PATH | String | Target Path | Yes |
| LINK | Boolean | Set to false by default | No |

1. FOP XML To PDF Transformation
   * Transform an XML file in a PDF file and attach the result to a package
   * XML file be structure has to be compliant to the FOP syntax
   * A XSLT transformation can be used to transform a generic XML file in a new XML file compliant to FOP
   * Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Description** | **Required?** |
| WorkitemId | String | Object Id of the current work item | yes |
| XML\_PACKAGE\_NAME | String | FOP XML Package | Yes |
| PDF\_DOCUMENT\_PATH | String | PDF Document Path | Yes |
| PDF\_DOCUMENT\_NAME | String | PDF document Name | Yes |
| PDF\_PACKAGE\_NAME | String | Attach PDF as content in package | no |

1. Word Document Filling
   * Fill the bookmarks of the specified Word document with the strings passed as parameters
   * Bookmarks are a feature of MS Word and are set directly on the Word document
   * A font is applied to each bookmark
     + Useful to generate barcodes
   * Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Description** | **Required?** |
| workitemId | String | Object Id of the current work item | yes |
| DOCUMENT\_PATH | String | Folder path to document in repository | yes |
| DOCUMENT\_NAME | String | Name of document in folder | yes |
| BOOKMARK\_NAME\_1 | String | Parameter Name | yes |
| BOOKMARK\_NAME\_2 | String | Parameter Name | no |
| BOOKMARK\_NAME\_3 | String | Parameter Name | no |
| BOOKMARK\_NAME\_4 | String | Parameter Name | no |
| BOOKMARK\_NAME\_5 | String | Parameter Name | no |
| BOOKMARK\_VALUE\_1 | String | Parameter Value | yes |
| BOOKMARK\_VALUE\_2 | String | Parameter Value | no |
| BOOKMARK\_VALUE\_3 | String | Parameter Value | no |
| BOOKMARK\_VALUE\_4 | String | Parameter Value | no |
| BOOKMARK\_VALUE\_5 | String | Parameter Value | no |
| PACKAGE\_NAME | String | Name of package in repository if you choose to attach document to package | no |

1. Package Attachments Attaching
   * Link attachments to packages
   * Eventually remove their link as attachments
   * Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Description** | **Required?** |
| workitemId | String | Object Id of the current work item | yes |
| PACKAGE\_NAME | String | Name of Package |  |
| ADD\_ATTACHMENTS | Boolean |  |  |
| REMOVE\_ATTACHMENTS | Boolean |  |  |
| OTHER\_DOCUMENTS\_PATH | String | Additional docs to add to path |  |

1. Package Attribute Increment
   * Increment the numeric value of a package attribute
   * Useful to handle sequences or unique codes
   * Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Description** | **Required?** |
| workitemId | String | Object Id of the current work item | yes |
| PKG\_NAME | String | Package Name | yes |
| PKG\_ATTRIBUTE | String | Attribute | yes |
| ATTR\_INCREMENT | Integer | Increment | yes |

1. Package Attributes Comparison
   * Compare values of attributes of packages and set the result as attribute of a package
   * Packages involved can be different
   * Comparison works on string and numbers
   * Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Description** | **Required?** |
| workitemId | String | Object Id of the current work item | yes |
| PACKAGE\_NAME\_1 | String | Package 1 Name | yes |
| ATTRIBUTE\_NAME\_1 | String | Attribute 1 Name | yes |
| REPEATING\_INDEX\_1 | String | If repeating, attribute 1 index | yes |
| PACKAGE\_NAME\_2 | String | Package 2 Name | yes |
| ATTRIBUTE\_NAME\_2 | String | Attribute 2 Name | yes |
| REPEATING\_INDEX\_2 | String | If repeating, attribute 2 index | yes |
| PACKAGE\_TO\_SET | String | Package to set attribute | yes |
| ATTRIBUTE\_TO\_SET | String | Numeric attribute to set | yes |
| ATTRIBUTES\_TYPE | String | Data type of attribute: String  Numeric  Decimal | yes |
| COMPARE\_UNSENSITIVE | Boolean | If String, compare is unsensitive | no |

1. Package Document Attaching
   * Load a document on the repository inside a package
   * Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Description** | **Required?** |
| workitemId | String | Object Id of the current work item | yes |
| DOCUMENT\_PATH | String | Folder Path of document in repository | yes |
| DOCUMENT\_NAME | String | Document Name in folder path | yes |
| PACKAGE\_NAME | String | Name of package to attach | yes |

1. Package Document Existing
   * Verify if a document exists on the repository
   * Eventually load the found document as package
   * Eventually set an attribute of a package with the result of the check
   * Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Description** | **Required?** |
| workitemId | String | Object Id of the current work item | yes |
| DOC\_PATH | String | Folder Path of document in repository | yes |
| DOC\_NAME | String | Document Name in folder path | yes |
| PCKG\_NAME | String | Name of package to attach | no |
| ATTR\_TO\_SET | String | String attribute to set if not found | no |
| PCKG\_TO\_SET | String | Package to set to attribute (only if ATTR\_TO\_SET is not blank) | no |

1. Package Lifecycle Suspend
   * Suspend a lifecycle associated to a document on the repository
   * Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Description** | **Required?** |
| workitemId | String | Object Id of the current work item | yes |
| PKG\_NAME | String | Name of package | yes |
| LC\_STATE | String | To State | yes |
| LC\_OVERRIDE | String | Force Suspend | yes |

1. Package String Attribute Filling
   * Fill the specified package attribute with the specified character or digit in order to obtain a fixed length string
   * Character or digit can be inserted before or after the value
   * Useful to obtain fixed length codes
   * Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Description** | **Required?** |
| workitemId | String | Object Id of the current work item | yes |
| PKG\_NAME | String | Package Name | yes |
| PKG\_ATTR | String | Attribute | yes |
| FILL\_CHAR | String | Filling Char | yes |
| INSERT\_AFTER | Boolean | Insert after; set to false by default | yes |
| FILL\_SIZE | String | Filling Length | yes |

1. Virtual Document Adding
   * Compose a virtual document adding documents on the repository, attachments and/or packages as children
   * Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Description** | **Required?** |
| workitemId | String | Object Id of the current work item | yes |
| PACKAGE\_NAME | String | Package Name | yes |
| DOCUMENT\_PATH | String | Folder Path of document in repository | yes |
| DOCUMENT\_NAME | String | Document Name in folder path | yes |
| PACKAGE\_NAMES | IDfList | List of packages | no |
| ADD\_ATTACHMENTS | Boolean | Add attachments | no |
| REMOVE\_ATTACHMENTS | Boolean | Remove attachments from wf | no |
| OTHER\_DOCUMENTS\_PATH | String | Folder path of additional documents | no |

1. Virtual Document Permission Setting
   * Apply a permission set to the children of a virtual document with the name starting with a specified string
   * Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Description** | **Required?** |
| workitemId | String | Object Id of the current work item | yes |
| DOC\_PATH | String | Folder Path of document in repository | yes |
| DOC\_NAME | String | Document Name in folder path | yes |
| DOCS\_START | String | Children Starting with | yes |
| PERM\_SET | IDfId | Permission set ID | yes |

1. Virtual Document Transformation
   * Transform a document on the repository in a virtual document
   * Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Description** | **Required?** |
| workitemId | String | Object Id of the current work item | yes |
| DOC\_PATH | String | Folder Path of document in repository |  |
| DOC\_NAME | String | Document Name in folder path |  |
| OTHER\_DOCS | Boolean |  |  |

1. Workflow Cleaning
   * Remove all the packages and the attachments
   * Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Description** | **Required?** |
| workitemId | String | Object Id of the current work item | yes |
| CLEAN\_PACKAGES | Boolean | Clean workflow package(s) | yes |
| REMOVE\_ATTACHMENTS | Boolean | Remove attachment(s) from workflow | yes |

1. Workflow Deadline Schedule
   * Schedule an application event in the future with a specified name
   * The event will be generated by a background job
   * Useful to actived a workflow in a stand-by status because waiting an event
   * Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Data Type** | **Description** | **Required?** |
| workitemId | String | Object Id of the current work item | yes |
| WF\_ID | String | Workflow ID | yes |
| EVENT\_NM | String | Event Name | yes |
| DATE | IDfTime | Deadline Date:  yyyy/mm/dd hh:mi:ss OR  yyyy/mm/dd | yes |
| DAYS | Integer | Days | no |
| HOURS | Integer | Hours | no |
| MINUTES | Integer | Minutes | no |
| SECONDS | Integer | Seconds | no |
| PATH | IDfId | Scheduler Path | no |