# OPA Extension: Text Library - Version 1.8.0 Released 18th March 2020

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| Function | Description | Parameters |
| --- | --- | --- |
| [AssembleName](file:///D:\Projects\OPAExtensionsWorking\TextFunctionsSourceCode\JavaStrings\dist\javadoc\com\pks\opa\extension\text\AssembleName.html) | Concatenates first, middle and last names with appropriate spacing.  Any unknown or uncertain inputs will be treated as empty spaces. | <arg name="firstName" type="text"/>  <arg name="middleNames" type="text"/>  <arg name="lastName" type="text"/> |
| [CapitaliseAll](file:///D:\Projects\OPAExtensionsWorking\TextFunctionsSourceCode\JavaStrings\dist\javadoc\com\pks\opa\extension\text\CapitaliseAll.html) | Returns a locale specific upper-case version of the string passed in in the first parameter usage | <arg name="textValue" type="text"/> |
| [CapitaliseEachWord](file:///D:\Projects\OPAExtensionsWorking\TextFunctionsSourceCode\JavaStrings\dist\javadoc\com\pks\opa\extension\text\CapitaliseEachWord.html) | Returns the input but with the first letter of each word converted to upper case so "!!!john 123 smith!!!" is converted to "!!!John 123 Smith!!!" | <arg name="textValue" type="text"/> |
| [CapitaliseFirstLetter](file:///D:\Projects\OPAExtensionsWorking\TextFunctionsSourceCode\JavaStrings\dist\javadoc\com\pks\opa\extension\text\CapitaliseFirstLetter.html) | Returns the input but with the first letter character converted to upper case so "!!!john!!!" is converted to "!!!John!!!" | <arg name="textValue" type="text"/> |
| BankNamesAreReasonableMatch | Check if two provided names appear to be **generally acceptable as matching**. This being a specialised approach for matching a bank account holder with the name of their account  Returns a Boolean True if they are a match, false otherwise  It is not foolproof! | <arg name="entityName" type="text"/>  <arg name="bankAccountName" type="text"/>  <arg name="entityType" type="text"/>  <arg name="excludeFromEnd" type="text"/>  *Entity type = PERSON, PARTNER, COMPANY – any other is treated as a company!*  *Exclude from end is an optional string to trim from the bank name (typically “GBP”), use “” if not required* |
| TheNamesAreReasonableMatch | Checks if two provided names appear to be generally acceptable as matching.  Returns a Boolean True if they are a match, false otherwise | <arg name="name1" type="text"/>  <arg name="name2" type="text"/>  <arg name="isPerson" type="boolean"/> |
| [ContainsVisibleCharacters](file:///D:\Projects\OPAExtensionsWorking\TextFunctionsSourceCode\JavaStrings\dist\javadoc\com\pks\opa\extension\text\ContainsVisibleCharacters.html) | Tests if a text value contains some text other than whitespace.  Returns a Boolean (true) if the text value contains any visible characters such as letters, punctuation or numbers. But returns false if the characters are not visible such as control characters, spaces and such-like  The second Parameter is a Boolean that if set to true causes the function to return false instead of unknown or uncertain. | <arg name="textValue" type="text"/>  <arg name="falseForUnknownUncertain" type="boolean"/> |
| [ExtractPropertyKeyOrValue](file:///D:\Projects\OPAExtensionsWorking\TextFunctionsSourceCode\JavaStrings\dist\javadoc\com\pks\opa\extension\text\ExtractPropertyKeyOrValue.html) | An OPA Custom function that splits a string about the = sign and returns either the first part (the property key name) or the last part the value. The string may not contain multiple “=” characters  If getKey is set to true then the function returns the key name, otherwise returns the value | <arg name="keyValuePair" type="text"/>  <arg name="getKey" type="boolean"/> |
| [GetTextLibraryVersion](file:///D:\Projects\OPAExtensionsWorking\TextFunctionsSourceCode\JavaStrings\dist\javadoc\com\pks\opa\extension\text\GetTextLibraryVersion.html) | A utility that returns the version number of the text library. | Takes no parameters  Returns “1.5.0” for the current version |
| [GetVersionString](file:///D:\Projects\OPAExtensionsWorking\TextFunctionsSourceCode\JavaStrings\dist\javadoc\com\pks\opa\extension\text\GetVersionString.html) | Assembles 4 numeric version identifiers into a single text value with “.” Between them. Mainly used to verify that the java extensions are loaded. Note that will not add leading zeros. | <arg name="MajorVersion" type="number"/>  <arg name="InterfaceVersion" type="number"/>  <arg name="MaintenanceReleaseVersion" type="number"/>  <arg name="TestCandiidateVersion" type="number"/> |
| [LongestWord](file:///D:\Projects\OPAExtensionsWorking\TextFunctionsSourceCode\JavaStrings\dist\javadoc\com\pks\opa\extension\text\LongestWord.html) | Returns the number of characters in the longest word in the textValue provided. | <arg name="textValue" type="text"/> |
| [PositionOf](file:///D:\Projects\OPAExtensionsWorking\TextFunctionsSourceCode\JavaStrings\dist\javadoc\com\pks\opa\extension\text\PositionOf.html) | Returns the first position of a string within a another string starting at a specific character position (0 is first character). | <arg name="textToFind" type="text"/>  <arg name="textToLookWithin" type="text"/>  <arg name="startPosition" type="number"/> |
| ReplaceAnyOf | Replaces parts of a text attribute that match against a list of search string. Simple regular expressions include   * a simple string or word such as “and” * a list of characters or text expressions separated by a delimiter (such as , or |). * E.g. replaceAnyOf (“+44 1473 231423”, “+44”,”0”,”,”) returns 0 1473 231423 * replaceAnyOf( “0 (1473) 231423”, “ ,(,)”, ”” ,”,”) gives 01773231423 i.e. replacing space or brackets with nothing. * Returns unknown/uncertain if any parameter is unknown/uncertain | <arg name="originalText" type="text"/>  <arg name="searchForList type="text"/>  <arg name="replacementText" type="text"/>  <arg name="delimiter" type="text"/> |
| ReplaceList | Replaces all occurrences of the strings listed in the “search for list” with the matching list item in the “replacement list”. The lists are each strings, using a delimiter to split them into lists. The delimiter is the same for both lists. There is no default delimiter, it must be provided.  The delimiter is normally a single character such as “|” or “^” although it could be a more complex string such as “^!$%^” if lots of special characters might appear in the actual text..  e.g.  myText = “Hello <name>, I am <mood>”  Replacelist(“myText,”<name>|<time>|<mood>”,”John|0:00|happy”  Results in  “Hello John, I am happy”  Note that spacing etc is replicated exactly.  If any of the four parameters is unknown or uncertain then the output will be unknown/uncertain | <arg name="originalText" type="text"/>  <arg name="searchForList type="text"/>  <arg name="replacementList" type="text"/>  <arg name="delimiter" type="text"/> |
| ContainsAnyOf | Operates in a similar manner to ReplaceAnyOf except it simply test to see if any of the search list are found. Returns a Boolean value,  Returns unknown/uncertain if any parameter is unknown/uncertain | <arg name="originalText" type="text"/>  <arg name="searchForList type="text"/>  <arg name="delimiter" type="text"/> |
| [Trim](file:///D:\Projects\OPAExtensionsWorking\TextFunctionsSourceCode\JavaStrings\dist\javadoc\com\pks\opa\extension\text\Trim.html) | An OPA custom function Extension class that trims the leading and trailing whitespace from a text attribute | <arg name="textValue" type="text"/> |
| [ValueForKey](file:///D:\Projects\OPAExtensionsWorking\TextFunctionsSourceCode\JavaStrings\dist\javadoc\com\pks\opa\extension\text\ValueForKey.html) | Given a long text value that contains a set of key-value pairs, this function will return the value of any named key, or UNKNOWN if the Key is not found  e.g.  ValueforKey ("RC=1:COMPQ=1: BF=REALL AN :X3=17","BF",":") will return “REALL AN”. White space near delimiters is automatically tidied up. | <arg name="parameterString" type="text"/>  <arg name="keyName" type="text"/>  <arg name="delimiterSet" type="text"/> |
| LimitedToCharacters | Given a text attribute this function returns a new text value that contains only the charaters listed in the permitted string e.g.  LimitedToCharacters(“ABCDEF”,”DA”) returns “AD” | <arg name="originalText" type="text"/>  <arg name="permittedCharacters" type="text"/> |
| InstanceTextValueList | Given a RELATIONSHIP name as a string, and an attribute name as a string, a delimiter and an instance count this function returns a delimited list with the strings found in the attribute. The attribute does not have to be a string type itself.  The relationship name and attribute name may be either sentence form or public name, but they must be a string value, this is a limitation of the custom functions in OPA. Similarly you must provide an instance count over the relationship so that OPA understands it must infer the relationship values before using the custom function – failute to do so results in unreliable results.  Note that use of public names improves the performance.  e.g.  InstanceTextValueList( “the children”, “the surname of the child” ,”, “, InstanceCount(the children))  Might return something like “Smith, Jones, Jacobson”  Note that if we picked a numeric attribute, the values are converted to strings.  If an instance contains either Unknown, Uncertain or an empty string for the attribute, it is ignored. | <arg name="relationship" type="text"/>  <arg name="attribute" type="text"/>  <arg name="delimiter" type="text"/>  <arg name="instanceCount" type="number"/> |

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Version 3, 29 June 2007

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