Configuration

Configuration of the initial settings of the utility are set by simply running the helicon executable without parameters, a window with the available configuration settings will be shown.

There might be cases when the application fails to show the configuration window, in most cases that happens because of a corrupted configuration file possibly from previous versions of the utility. Simply check the *log.txt* file on the helicon folder to confirm that is the issue, in which case simply deleting the *config.dat* file would solve the problem.

Variables

All variables in the context can be accessed by using the syntax [[VarName]] where "VarName" is the variable you'd like to access. Also, there are currently the following modifiers supported (note that modifiers are *case-sensitive*):

Modifier	Example	Description
STRING	[[STRING varname]]	Converts the specified variable to a string, this is useful for cases when the source is not exactly a string but some other object type.
HEXSTR	[[HEXSTR varname]]	Converts the given variable to a Hex String starting with 0x (like 0x123554784) which is useful to store blob data in a database table.
ESCAPE	[[ESCAPE varname]]	Escapes the specified variable and encloses it within single-quotes. Useful to store strings in a database table.
FILE_EXISTS	[[FILE_EXISTS varname]]	Evaluates to 1 if the file specified in the variable exists, or 0 if not.
FILE_SIZE	[[FILE_SIZE varname]]	Evaluates to the size of the filename specified in the variable.
ENV	[[ENV Path]]	Returns the value of an environment variable.
SELF_PATH	[[SELF_PATH]]	Returns the full path of the HELICON executable (including trailing backslash).

REGEX_MATCH REGEX_MATCH _CS	[[REGEX_MATCH P T]]	Performs a regex match verification of the given pattern P and the string T, returns "1" if match, or "0" otherwise. The input T will be broken by \n and trimmed. The _CS variant is case-sensitive.
REGEX_MATCH _ML	[[REGEX_MATCH_ML P T]]	Same as REGEX_MATCH but it does not split the input string T and enables multi-line options.
COUNT	[[COUNT ARR]]	Returns the number of elements in the specified array.
STRLEN	[[STRLEN XX]]	Returns the length of a string.
TRIM	[[TRIM XX]]	Trims the white-space off the left and right of the string.
DIR_EXISTS	[[DIR_EXISTS varname]]	Evaluates to 1 if the directory specified in the variable exists, or 0 if not.
UUID	[[UUID]]	Returns a UUID string.
TEMPNAM	[[TEMPNAM]]	Returns a full path to a unique temporal filename.
DIRNAME	[[DIRNAME xxx]]	Returns the full parent directory path of a given file path.
FILENAME	[[FILENAME xxx]]	Returns the filename only (without extension) of a file given its path.

When a tab, space or new-line character is desired, you can use the built-in variables: [[TAB]] [[SP]] and [[NL]] respectively.

To change the text color in ANSI-compatible terminals (Windows 10) you can use the build-in variables: @DEF, @RED, @GREEN, @YELLOW, @BLUE, @MAGENTA and @CYAN before the text of which you want to change the color.

Brief Version History

Version 2.3

As of version 2.3 the string formatter now allows nested modifiers to be used, that means - for instance- that now you can use [[ESCAPE [[FSIZE varname]]]] and such formats without issues.

Version 2.4

RegexExtract, [[Env X]] and SetEnv have been added. Added [[SELF_PATH]], added new element [[FileDelete]].

Version 2.5

- Added PdfLoadTextArray to load plain text contents (no OCR whatsoever) from a PDF into an array (one array element per page).
- Added SplitText used to split a text variable and store it in an array.
- Added REGEX MATCH and REGEX MATCH NL modifiers.
- Added Switch/Case element.
- Added new global attribute "When" to execute an action only if the condition is true.
- Added option "Single" to RegexExtract to just get a single match.
- Added STRLEN, COUNT modifiers and Eval attribute to SetVar.

Version 2.6 / 2.65

- Added TRIM.
- Added Subroutine, Call, CallSubroutine, IFilterLoadText.
- Added "Timeout" to <SqlOpen/>
- Changed semantics of <Stop/> for Subroutines.

Version 2.68

- Added PdfLoadText and included Poppler in the package.

Version 2.71

- Added FileCopy and FileMove.

Version 2.72

- Added SendMail.

Version 2.74

- Added DIR_EXISTS.

Version 2.75

- Added "ResponseType" option to <ApiCall>.

Version 2.76

- Added ImapOpen, ImapClose, ImapSetSeen and modified behavior of ImapLoadArray to make use of globally open Imap connection.

Version 2.82

- Added variables [[UUID]] and [[TEMPNAM]].
- Added action PdfMerge and Sleep.

Version 2.83

- Added [[REGEX MATCH CS]]
- Added attribute IgnoreCase to <RegexExtract>
- Added <ReplaceText>

Version 2.84

- Added [[@DEF]], [[@RED]], [[@GREEN]], [[@YELLOW]], [[@BLUE]], [[@MAGENTA]], [[@CYAN]]
- Added <MsgLoadInfo>
- Changed behavior of <FileSave> to automatically create any required directories.
- Added "Recursive" option to ForEachFile.
- Added [[DIRNAME]] and [[FILENAME]]
- Changed behavior of <SendMail> to allow multiple attachments to be specified also using "|" in a single element.

Issues

When running Helicon from the Windows Task Scheduler, if you require to run another program that uses DCOM (like for example Microsoft Word to convert a docx to pdf) you might run into a problem that causes the DCOM not to load. To fix this issue you have to run "Component Services", select "Computers", "My Computer" then "DCOM Config" and find the AppID you wish to configure (either by name or by its CLSID), then do a right-click, select properties, select tab "Identity" and then "This User", you will be prompted with the username and password of the user you want to use to run the task, put the credentials there and click on "Ok". That should be all.

Service Utility

Helicon comes with a "run as a service" utility named "servx", in order to install any xml configuration process to run periodically as a service you have to run the following commands (as administrator):

servx install XXX "./my config.xml"

Used to install a service named "XXX" and to ensure it runs "my_config.xml" (which is on the same folder as Helicon and servx due to the "./") *infinitely* while the service is running.

By default the service will be stopped and its startup mode will be set to "manual", if you wish to change this startup to automatic such that the service will run with windows startup then open services.msc and configure the startup mode from there.

2. servx uninstall XXX

Used to uninstall a previously installed service named "XXX". If the service is running it will be automatically stopped.

3. sc start XXX

Used to start a previously installed service named "XXX", after executing this command you can assume Helicon is running and executing the xml process you specified when installing the service (i.e. my config.xml).

4. sc stop XXX

Used to stop a service named "XXX".

5. servx config XXX "my config2.xml"

Used to set the process configuration xml that will be run by Helicon. If you have a service already installed and you wish to change which xml file it runs you can use this command.

NOTE: Remember to use full path to the XML file when specifying it to servx install or servx config or use the "./" path to indicate your file is in the same folder as Helicon and servx.

◆ SqlOpen

Opens the internal SQL connection to the SQL Server specified in the initial configuration. If any error occurs an exception will be thrown.

Attributes

Timeout

Optional attribute to override the default connection timeout in seconds (300).

<SqlOpen Timeout="30"/>

◆ SqlClose

Closes the internal SQL connection. Recommended for completion purposes, but not required since it will be automatically executed when the process finishes.

<SqlClose/>

♦ ForEachFile

Executes the actions inside the element for each of the files in a specified directory.

Any error caused when opening the directory will cause an exception to be thrown, however any error occurring inside the foreach-loop (meaning, any error occurring with the actions specified) will simply cause the error to be logged and the execution to resume with the next file.

Attributes

InDirectory

Specifies the directory path to use as source. If none specified the current directory will be used.

WithExtension

(Optional) Space-separated list of extensions (including the leading dot) to filter the files. If none specified no filtering will be applied.

WithMinSize

(Optional) Integer indicating the minimum size (in bytes) of the allowed files. If none specified no filtering will be applied.

WithMaxSize

(Optional) Integer indicating the maximum size (in bytes) of the allowed files. If none specified no filtering will be applied.

IncludeHidden

(Optional) Boolean value (TRUE or FALSE) indicating if hidden files should also be reported. Defaults to false.

Recursive

(Optional) Boolean value (TRUE or FALSE) indicating if the search should be done also in all sub-directories (defaults to false).

Introduced Context Variables

File.Ext

Extension of the file including the leading dot.

File.Name

Name of the file (including extension).

File.Size

Size of the file in bytes.

File.Path

Path to the file's directory, that is the path without the filename, just the directory path without the trailing back-slash (\).

File.FullPath

Full path to the file, that includes the directory and the filename.

♦ SqlStatement

Executes an SQL statement (innerText). If any error occurs an exception will be thrown, if this behavior is not desired use the Silent attribute. If an empty query is specified only a warning will be issued.

Attributes

Silent

When set to TRUE, causes any error during the statement execution to be ignored and written to the log file instead of throwing the exception.

Defaults to FALSE.

```
<SqlStatement Silent="TRUE">
          DROP TABLE Test
</sqlStatement>
```

◆ SqlLoadRow

Executes a data retrieval query (innerText) and loads the first row (regardless of how many other rows there might be) from the result into the context. It is recommended to use a LIMIT clause to ensure only one row is retrieved.

All column in the row will be available in the context with their respective name, although column names can be prefixed by using the attribute "Prefix" (see below).

Upon any error an exception will be thrown, to override this behavior (not recommended, but sometimes applicable) use the Silent attribute. – If an empty query is specified only a warning will be issued.

Attributes

Silent

When set to TRUE, causes any error during the query execution to be ignored and written to the log file instead of throwing an exception. Defaults to FALSE.

Prefix

Specifies a prefix to be used on all columns. Used to disambiguate when more than one SqlLoadRow action is performed. All columns retrieved will have this prefix prepended to them separated by a dot. See example below.

```
SELECT name, last_name FROM persons WHERE id=4
</sqlStatement>
```

The above will introduce variables: X.name and X.last name into the context.

◆ SqlLoadArray

Executes a data retrieval query (innerText) and loads all rows from the result as an array-variable in the context. If an empty query is specified a warning will be issued.

All column in the row will be available in the context with their respective name, although column names can be prefixed by using the attribute "Prefix" (see below).

Upon any error an exception will be thrown, to override this behavior use the Silent attribute.

Attributes

Silent

When set to TRUE, causes any error during the query execution to be ignored and written to the log file instead of throwing an exception. Defaults to FALSE.

Into

Specifies a name of the array-variable to store the result set. Defaults to "Array" when not specified. – Used in conjuction with action ForEachRow.

```
<SqlLoadArray Into="MyResultSet">
    SELECT name, last_name FROM persons
</sqlLoadArray>
```

◆ ForEachRow

Executes the actions inside the element for each of the rows in the specified array-variable. The contents of each row will be loaded into the context with the respective name of each field (unless a prefix is specified, see prefix attribute below).

Any errors occurring during the for-each loop will not cause the loop to stop, instead the error will be logged, and the for-each loop will continue for the next row. However any error occurring while loading the array-varible will cause exceptions.

Attributes

ln

Specifies the name of the array-variable to use as source. If the variable is not an array-variable an exception will be thrown.

Prefix

Specifies a prefix to be used on all introduced variables. When specified all fields loaded from rows will end up in the context having the name "X.Y" where X is the prefix and Y the field name.

```
<SqlLoadArray Into="MyResultSet">
    SELECT name, last_name FROM persons
</SqlLoadArray>

<ForEachRow In="MyResultSet">
    <Echo>Hello [[name]] [[last_name]]</Echo>
</ForEachRow>
```

♦ SafeBlock

Executes the actions inside the **Execute** element, if any exceptions are thrown during the process the actions inside the **OnFailure** element will be executed, when the later happens a new variable named "ERRSTR" will be introduced in the context with the error string of the exception detected.

If no error happens the actions inside the **OnSuccess** element will be executed. This element is optional.

If the OnException element is not provided the SafeBlock will simply write the error to the log and ignore the exception, the inner process sequence (the Execute actions) will be interrupted, of course.

If yet another exception occurs while processing the OnFailure or onSuccess blocks any errors will be written to the log.

Executes the actions inside the **True** element, if the condition evaluated yields true, otherwise the **False** element will be executed.

The condition attribute can make use of any of the context variables available. Note that special care must be taken when writing conditions because they are evaluated in C#. - If there was any error while evaluating the condition, then the **Error** element will be executed, and when that happens a new variable named "ERRSTR" will be introduced in the context with the error string of the exception detected.

All of the three (**True**, **False** and **Error**) elements are optional.

◆ ApiCall

Executes a call to a remote API function that returns JSON data and stores the results in the context. All elements in the inner area will be sent as POST parameters.

Attributes

Ur

Address of the API function to call.

Prefix

Specifies a prefix to be prepended on all introduced variables. When set all variables will have the name "X.Y" where "X" is the prefix and "Y" is the variable name. (Default prefix is "Api").

ClearCookies

Boolean value (TRUE/FALSE) indicating if the cookies previously obtained should be cleared or preserved. Useful when having to perform several function calls and cookies must be preserved. (Default is FALSE).

ResponseType

Indicates the type of response you're expecting. Valid options are RAW and JSON. - Defaults to "JSON". When "RAW" is selected the output

variable will be "raw" and "rawBytes" (would end up as Api.raw and Api.rawBytes depending on prefix).

Regular API Call:

POST a file with inline data:

```
<ApiCall Url="http://someapi.com/api">
    <file Filename="FakeFilename.txt">
     <![CDATA[Hello! This is the file data to be posted!]]>
     </file>
</ApiCall>
```

POST a file from an actual file:

```
<ApiCall Url="http://someapi.com/api">
<file Filename="FakeFilename.txt" FromFile="Path/To/File.txt"/>
</ApiCall>
```

♦ Pop3LoadArray

Executes data retrieval from a POP3 server and loads results as an array-variable in the context. A maximum number of records to retrieve must be specified.

All fields in the email record will be available in the context with their respective name, although column names can be prefixed by using the attribute "Prefix" (see below).

Upon any error an exception will be thrown, to override this behavior use the Silent attribute.

Attributes

Silent

When set to TRUE, causes any error during the execution to be ignored and written to the log file instead of throwing an exception. Defaults to FALSE.

Into

Specifies a name of the array-variable to store the result set. Defaults to "Array" when not specified. – Used in conjuction with action ForEachRow.

Count

Maximum number of records to process, defaults to 100.

Host

Host address of the POP3 server.

Port

Port of the POP3 server.

SSL

Boolean value (TRUE/FALSE) indicating if SSL should be used.

Username

Name of the user to use to login to the POP3 server.

Password

Password of the user to login to the POP3 server.

The fields available in the output array are:

```
MSG_ID STRING (UUID of Message)
MSG_DATE DATETIME (yyyy-MM-dd HH:mm:ss)
MSG_FROM_NAME STRING
MSG_FROM_EMAIL STRING
MSG_SUBJECT STRING
MSG_BODY STRING
MSG_BODY_LEN STRING (Length of Body)
```

```
<Pop3LoadArray Into="MyResultSet" Host="MyServer.com" Port="X"
SSL="TRUE" Username="Me" Password="Something" />
```

◆ ImapOpen

Open an IMAP connection for subsequent operations. Useful when you want to mark messages as seen/unseen using a custom process.

Attributes

Silent

When set to TRUE, causes any error during the execution to be ignored and written to the log file instead of throwing an exception. Defaults to FALSE.

Host

Host address of the IMAP server.

Port

Port of the IMAP server.

SSL

Boolean value (TRUE/FALSE) indicating if SSL should be used.

Username

Name of the user to use to login to the IMAP server.

Password

Password of the user to login to the IMAP server.

<ImapOpen Host="MyServer.com" Port="X" SSL="TRUE" Username="Me"
Password="Something"/>

♦ ImapClose

Closes a previously open IMAP connection.

Attributes

Silent

When set to TRUE, causes any error during the execution to be ignored and written to the log file instead of throwing an exception. Defaults to FALSE.

<ImapClose/>

♦ ImapSetSeen

Sets the SEEN flag of a message via IMAP protocol. The credentials can be set on this element or they can be left blank -in which case- the global IMAP connection opened with ImapOpen will be used.

Attributes

Silent

When set to TRUE, causes any error during the execution to be ignored and written to the log file instead of throwing an exception. Defaults to FALSE.

Host

Host address of the IMAP server.

Port

Port of the IMAP server.

SSL

Boolean value (TRUE/FALSE) indicating if SSL should be used.

Username

Name of the user to use to login to the IMAP server.

Password

Password of the user to login to the IMAP server.

ld

ID of the message to modify. Should match the MSG_ID obtained when retrieving messages.

Value

Boolean value for the SEEN flag (True or False) default is True.

<ImapSetSeen Id="1" Value="True"/>

♦ ImapLoadArray

Executes data retrieval from an IMAP server and loads results as an array-variable in the context. A maximum number of records to retrieve must be specified.

All fields in the email record will be available in the context with their respective name, although column names can be prefixed by using the attribute "Prefix" (see below).

Upon any error an exception will be thrown, to override this behavior use the Silent attribute. An IMAP query must be specified in the innerText of the element, possible values are below after the attributes table.

Note that credentials can be left blank, in which case the global IMAP connection opened with ImapOpen will be used.

Attributes

Silent

When set to TRUE, causes any error during the execution to be ignored and written to the log file instead of throwing an exception. Defaults to FALSE.

Into

Specifies a name of the array-variable to store the result set. Defaults to "Array" when not specified. – Used in conjuction with action ForEachRow.

Count

Maximum number of records to process, defaults to 100.

Host

Host address of the IMAP server.

Port

Port of the IMAP server.

SSL

Boolean value (TRUE/FALSE) indicating if SSL should be used.

Username

Name of the user to use to login to the IMAP server.

Password

Password of the user to login to the IMAP server.

MarkAsSeen

All retrieved emails will be marked as "Seen" afterwards, this is useful to fetch only unseen emails.

SaveEML

Saves the contents of the message as EML and provides a new variable MSG_EML_DATA with the data contents stored as string (can be used with FileSave or HexStr).

The fields available in the output array are:

```
MSG_ID STRING (UUID of Message)
MSG_UID_VALIDITY STRING (UID Validity of the Folder)
MSG_DATE DATETIME (yyyy-MM-dd HH:mm:ss)
MSG_FROM_NAME STRING
MSG_FROM_EMAIL STRING
MSG_SUBJECT STRING
MSG_BODY STRING
MSG_BODY STRING
MSG_BODY_LEN STRING (Length of Body)
MSG_ATTACHMENTS STRING (Semi-colon separated list of names)
```

Key	Meaning
<sequence set=""></sequence>	Messages with message sequence numbers corresponding to the specified message sequence number set. Examples: "1", "589, 1067", "1:*", "5,7,10:25,37:*", "3:4". Multiple values are delimited with commas (,). Colon (:) is used to specify a range. For instance, "1:10" designates message indices in the range from 1 to 10. "*" is a wildcard. When used in a range, sets higher boundary of the range to the index of the last message in the folder.
ALL	All messages in the folder; the default initial key for ANDing.
ANSWERED	Messages with the \Answered flag set.
BCC <string></string>	Messages that contain the specified string in the envelope structure's BCC field.
BEFORE <date></date>	Messages whose internal date (disregarding time and timezone) is earlier than the specified date.
BODY <string></string>	Messages that contain the specified string in the body of the message.
CC <string></string>	Messages that contain the specified string in the envelope structure's CC field.
DELETED	Messages with the \Deleted flag set.

FLAGGED Messages with the \Flagged flag set. FROM <string> Messages that contain the specified string in the envelope structure's FROM field. Messages that have a header with the specified field-name (as defined in [RFC-2822 dolon). If the string to search is zero-length, this matches all messages that have a header line with the specified field-name regardless of the contents. KEYWORD </string>	DRAFT	Messages with the \Draft flag set.	
FROM <string> Messages that contain the specified string in the envelope structure's FROM field. Messages that have a header with the specified field-name (as defined in [RFC-2822 and that contains the specified string in the text of the header (what comes after the colon). If the string to search is zero-length, this matches all messages that have a header line with the specified string in the text of the header (what comes after the colon). If the string to search is zero-length, this matches all messages that have a header line with the specified field-name regardless of the contents. KEYWORD {KEYWORD Messages with an [RFC-2822] size larger than the specified number of octets. NEW Messages with an [RFC-2822] size larger than the specified number of octets. NEW Messages that do not match the specified search key. Messages that do not match the specified search key. Messages that do not match the specified search key. Messages whose internal date (disregarding time and timezone) is within the specified date. OR <search-key1> search-key1+ search key. Messages whose internal date (disregarding time and timezone) is earlied that the specified date. SENTBEFORE Messages that have the \Recent flag set. SEEN Messages whose [RFC-2822] Date: header (disregarding time and timezone) is earlied than the specified date. SENTSINCE Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within the specified date. SENTSINCE Messages whose [RFC-2822] Date: header (disregarding time and timezone) is withing the specified date. SINCE <date> Messages whose [RFC-2822] Date: header (disregarding time and timezone) is withing the specified date. SINCE <date> Messages whose [RFC-2822] Date: header (disregarding time and timezone) is withing the specified date. SINCE <date> Messages with an [RFC-2822] size smaller than the specified number of octets. SUBJECT Messages with an [RFC-2822] size smaller than the specified unique identifier set. Sequence set ranges are permitted.</date></date></date></search-key1></string>		v v	
Messages that have a header with the specified field-name (as defined in [RFC-2822] and that contains the specified string in the text of the header (what comes after the colon). If the string to search is zero-length, this matches all messages that have a header line with the specified field-name regardless of the contents. KEYWORD diagram of the specified keyword flag set. Messages with the specified keyword flag set. LARGER <n> Messages with an [RFC-2822] size larger than the specified number of octets. NEW Messages that have the Necent flag set but not the Nesen flag. This is functionally equivalent to "(RECENT UNSEEN)". NOT <search-key> OLD Messages that do not match the specified search key. OLD Messages whose internal date (disregarding time and timezone) is within the specified date. OR <search-key1> <search-key1> <search-key2> RECENT Messages that have the Necent flag set. SEEN Messages that have the Necent flag set. SEEN Messages that have the Necent flag set. SEEN Messages that have the Necent flag set. SENTON <date> Messages whose [RFC-2822] Date: header (disregarding time and timezone) is earlied that the specified date. SENTSINCE Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within the specified date. SINCE <date> Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within the specified date. SINCE <date> Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within the specified date. SINCE <date> Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within or later than the specified date. SINCE <date> Messages whose [RFC-2822] bate: header (disregarding time and timezone) is within or later than the specified date. SINCE <date> Messages with an [RFC-2822] size smaller than the specified number of octets. SUBJECT **string> Messages with an [RFC-2822] size smaller than the specified number of octets. Messages with an [RFC-2822] size smaller than the specified number of octets.</date></date></date></date></date></date></search-key2></search-key1></search-key1></search-key></n>		, , , ,	
LARGER < n > Messages with an [RFC-2822] size larger than the specified number of octets.	HEADER <field- name> <string></string></field- 	Messages that have a header with the specified field-name (as defined in [RFC-2822]) and that contains the specified string in the text of the header (what comes after the colon). If the string to search is zero-length, this matches all messages that have a	
Messages that have the \Recent flag set but not the \Seen flag. This is functionally equivalent to "(RECENT UNSEEN)". Mossages that do not match the specified search key. Messages that do not have the \Recent flag set. This is functionally equivalent to "NO RECENT" (as opposed to "NOT NEW"). Messages whose internal date (disregarding time and timezone) is within the specified date. OR <search-key1> <search-key2> RECENT Messages that have the \Recent flag set. SEEN Messages that have the \Recent flag set. SEEN Messages that have the \Seen flag set. SENTBEFORE date> Messages whose (RFC-2822) Date: header (disregarding time and timezone) is earlied than the specified date. SENTON <date> Messages whose (RFC-2822) Date: header (disregarding time and timezone) is within the specified date. SENTSINCE date> Messages whose (RFC-2822) Date: header (disregarding time and timezone) is within the specified date. SINCE <date> Messages whose (RFC-2822) Date: header (disregarding time and timezone) is within or later than the specified date. SINCE <date> Messages whose internal date (disregarding time and timezone) is within or later than the specified date. Messages with an (RFC-2822) size smaller than the specified number of octets. SUBJECT <string> Messages that contain the specified string in the envelope structure's SUBJECT field than the specified string in the envelope structure's To field. UID <sequence \dnestring="" are="" do="" have="" messages="" not="" permitted.="" ranges="" set="" set.="" set.<="" td="" that="" the="" unanswered=""><td>_</td><td>Messages with the specified keyword flag set.</td></sequence></string></date></date></date></search-key2></search-key1>	_	Messages with the specified keyword flag set.	
equivalent to "(RECENT UNSEEN)". NOT <search-key> Messages that do not match the specified search key. OLD Mescages that do not have the \Recent flag set. This is functionally equivalent to "NOT RECENT" (as opposed to "NOT NEW"). ON <date> Messages whose internal date (disregarding time and timezone) is within the specified date. OR <search-key1> <search-key2> RECENT Messages that match either search key. SEN Messages that have the \Recent flag set. SEEN Messages whose [RFC-2822] Date: header (disregarding time and timezone) is earlied than the specified date. SENTON <date> Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within the specified date. SENTSINCE Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within or later than the specified date. SINCE <date> Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within or later than the specified date. SINCE <date> Messages whose internal date (disregarding time and timezone) is within or later than the specified date. SMALLER <n> Messages with an [RFC-2822] size smaller than the specified number of octets. SUBJECT Messages that contain the specified string in the envelope structure's SUBJECT field textring> Messages that contain the specified string in the envelope structure's TO field. UID <sequence \answered="" are="" do="" flag="" have="" messages="" not="" permitted.="" ranges="" set="" set.="" set.<="" td="" that="" the="" unanswered="" undraft=""><td>LARGER <n></n></td><td>Messages with an [RFC-2822] size larger than the specified number of octets.</td></sequence></n></date></date></date></search-key2></search-key1></date></search-key>	LARGER <n></n>	Messages with an [RFC-2822] size larger than the specified number of octets.	
Messages that do not match the specified search key. OLD Messages that do not have the \Recent flag set. This is functionally equivalent to "NCRECENT" (as opposed to "NOT NEW"). ON <date> Messages whose internal date (disregarding time and timezone) is within the specified date. OR <search-key1> <search-key2> RECENT Messages that match either search key. Messages that have the \Recent flag set. SENTBEFORE Messages whose [RFC-2822] Date: header (disregarding time and timezone) is earlied than the specified date. SENTSINCE Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within the specified date. SENTSINCE Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within or later than the specified date. SINCE <date> Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within or later than the specified date. SINCE <date> Messages whose internal date (disregarding time and timezone) is within or later than the specified date. SMALLER <n> Messages whose internal date (disregarding time and timezone) is within or later than the specified date. SMALLER <n> Messages with an [RFC-2822] size smaller than the specified number of octets. SUBJECT Messages that contain the specified string in the envelope structure's SUBJECT field text of the season of the message. Messages that contain the specified string in the nevelope structure's TO field. Messages with unique identifiers corresponding to the specified unique identifier set. Sequence set ranges are permitted. UNANSWERED Messages that do not have the \Answered flag set. UNDRAFT Messages that do not have the \Deleted flag set.</n></n></date></date></search-key2></search-key1></date>	NEW		
ON <date> ON <date> Messages whose internal date (disregarding time and timezone) is within the specified date. OR <search-key1> <search-key2> RECENT Messages that have the \Recent flag set. SEN Messages whose [RFC-2822] Date: header (disregarding time and timezone) is earlied than the specified date. SENTON <date> Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within the specified date. SENTSINCE Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within the specified date. SENTSINCE Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within the specified date. SINCE <date> Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within or later than the specified date. SINCE <date> Messages whose internal date (disregarding time and timezone) is within or later than the specified date. SMALLER <n> Messages whose internal date (disregarding time and timezone) is within or later than the specified date. SMALLER <n> Messages with an [RFC-2822] size smaller than the specified number of octets. SUBJECT SUBJECT Messages that contain the specified string in the envelope structure's SUBJECT field. TEXT <string> Messages that contain the specified string in the header or body of the message. TO <string> Messages that contain the specified string in the envelope structure's TO field. UID <sequence \answered="" \deleted="" are="" do="" flag="" have="" messages="" not="" permitted.="" ranges="" set="" set.="" set.<="" td="" that="" the="" unanswered="" undraft=""><td>_</td><td>Messages that do not match the specified search key.</td></sequence></string></string></n></n></date></date></date></search-key2></search-key1></date></date>	_	Messages that do not match the specified search key.	
date. OR <search-key1> <search-key2> RECENT Messages that match either search key. SEEN Messages that have the \Recent flag set. SENTBEFORE Messages whose [RFC-2822] Date: header (disregarding time and timezone) is earlied than the specified date. SENTSINCE Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within the specified date. SENTSINCE Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within or later than the specified date. SINCE <date> Messages whose internal date (disregarding time and timezone) is within or later than the specified date. SMALLER <n> Messages whose internal date (disregarding time and timezone) is within or later than the specified date. SMALLER <n> Messages with an [RFC-2822] size smaller than the specified number of octets. SUBJECT Messages that contain the specified string in the envelope structure's SUBJECT field than the specified string in the header or body of the message. TO <string> Messages that contain the specified string in the envelope structure's TO field. UID <sequence \answered="" \deleted="" are="" corresponding="" do="" flag="" have="" identifier="" identifiers="" messages="" not="" permitted.="" ranges="" sequence="" set="" set.="" set.<="" specified="" td="" that="" the="" to="" unanswered="" undraft="" unique="" with=""><td>OLD</td><td>Messages that do not have the \Recent flag set. This is functionally equivalent to "NOT RECENT" (as opposed to "NOT NEW").</td></sequence></string></n></n></date></search-key2></search-key1>	OLD	Messages that do not have the \Recent flag set. This is functionally equivalent to "NOT RECENT" (as opposed to "NOT NEW").	
key1> <search-key2> RECENT Messages that have the \Recent flag set. SEEN Messages whose [RFC-2822] Date: header (disregarding time and timezone) is earlied than the specified date. SENTON <date> Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within the specified date. SENTSINCE Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within the specified date. SENTSINCE Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within or later than the specified date. SINCE <date> Messages whose internal date (disregarding time and timezone) is within or later than the specified date. SMALLER <n> Messages whose internal date (disregarding time and timezone) is within or later than the specified date. SMALLER <n> Messages with an [RFC-2822] size smaller than the specified number of octets. SUBJECT Messages that contain the specified string in the envelope structure's SUBJECT field than the specified string in the envelope structure's TO field. TEXT <string> Messages that contain the specified string in the envelope structure's TO field. UID <sequence \answered="" \deleted="" are="" corresponding="" do="" flag="" have="" identifier="" identifiers="" messages="" not="" permitted.="" ranges="" sequence="" set="" set.="" set.<="" specified="" td="" that="" the="" to="" unanswered="" undeleted="" undraft="" unique="" with=""><td>ON <date></date></td><td>Messages whose internal date (disregarding time and timezone) is within the specified date.</td></sequence></string></n></n></date></date></search-key2>	ON <date></date>	Messages whose internal date (disregarding time and timezone) is within the specified date.	
SEEN Messages that have the \Seen flag set. SENTBEFORE date> Messages whose [RFC-2822] Date: header (disregarding time and timezone) is earlied than the specified date. SENTON <date> Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within the specified date. SENTSINCE Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within or later than the specified date. SINCE <date> Messages whose internal date (disregarding time and timezone) is within or later than the specified date. SMALLER <n> Messages whose internal date (disregarding time and timezone) is within or later than the specified date. SMALLER <n> Messages with an [RFC-2822] size smaller than the specified number of octets. SUBJECT Messages that contain the specified string in the envelope structure's SUBJECT field than the specified string in the header or body of the message. TO <string> Messages that contain the specified string in the envelope structure's TO field. UID <sequence \answered="" \deleted="" \draft="" are="" corresponding="" do="" flag="" have="" identifier="" identifiers="" messages="" not="" permitted.="" ranges="" sequence="" set="" set.="" set.<="" specified="" td="" that="" the="" to="" unanswered="" undeleted="" undraft="" unique="" with=""><td>key1> <search-< td=""><td>Messages that match either search key.</td></search-<></td></sequence></string></n></n></date></date>	key1> <search-< td=""><td>Messages that match either search key.</td></search-<>	Messages that match either search key.	
SENTBEFORE date> Messages whose [RFC-2822] Date: header (disregarding time and timezone) is earlied than the specified date. SENTON <date> Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within the specified date. SENTSINCE Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within or later than the specified date. SINCE <date> Messages whose internal date (disregarding time and timezone) is within or later than the specified date. SMALLER <n> Messages whose internal date (disregarding time and timezone) is within or later than the specified date. SMALLER <n> Messages with an [RFC-2822] size smaller than the specified number of octets. SUBJECT String> Messages that contain the specified string in the envelope structure's SUBJECT field than the specified string in the envelope structure's To field. TEXT <string> Messages that contain the specified string in the envelope structure's TO field. UID <sequence \answered="" \deleted="" \draft="" are="" corresponding="" do="" flag="" have="" identifier="" identifiers="" messages="" not="" permitted.="" ranges="" sequence="" set="" set.="" set.<="" specified="" td="" that="" the="" to="" unanswered="" undeleted="" undraft="" unique="" with=""><td>RECENT</td><td>Messages that have the ∖Recent flag set.</td></sequence></string></n></n></date></date>	RECENT	Messages that have the ∖Recent flag set.	
 than the specified date. SENTON <date> Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within the specified date.</date> SENTSINCE Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within or later than the specified date. SINCE <date></date>	SEEN	Messages that have the \Seen flag set.	
the specified date. SENTSINCE Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within or later than the specified date. SINCE <date> Messages whose internal date (disregarding time and timezone) is within or later than the specified date. SMALLER <n> Messages whose internal date (disregarding time and timezone) is within or later than the specified date. SMALLER <n> Messages with an [RFC-2822] size smaller than the specified number of octets. SUBJECT <string> Messages that contain the specified string in the envelope structure's SUBJECT field TEXT <string> Messages that contain the specified string in the header or body of the message. TO <string> Messages that contain the specified string in the envelope structure's TO field. UID <sequence \answered="" \deleted="" \draft="" are="" do="" flag="" have="" messages="" not="" permitted.="" ranges="" sequence="" set="" set.="" set.<="" td="" that="" the="" unanswered="" undraft=""><td></td><td>Messages whose [RFC-2822] Date: header (disregarding time and timezone) is earlier than the specified date.</td></sequence></string></string></string></n></n></date>		Messages whose [RFC-2822] Date: header (disregarding time and timezone) is earlier than the specified date.	
 <ahe <ul="" begin{align*}=""> <ahe <li="" begin{align*}=""><ahe <="" a="" begin{align*}=""></ahe></ahe></ahe></ahe></ahe></ahe></ahe></ahe></ahe> <ahe <li="" begin{align*}=""><ahe <li="" begin{align*}=""><ahe <="" a="" begin{align*}=""></ahe></ahe></ahe> <ahe <li="" begin{align*}=""><ahe <="" a="" begin{align*}=""></ahe></ahe> <ahe <li="" begin{align*}=""><ahe <="" a="" begin{align*}=""></ahe></ahe> <ahe <="" a="" begin{align*}=""></ahe> </ahe> <ahe <="" a="" begin{align*}=""></ahe> <ahe a="" begin<=""></ahe> <ahe a="" begin<=""></ahe> <ahe a="" begin<=""></ahe> <ahe a="" begin<=""></ahe> <	SENTON <date></date>	Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within the specified date.	
the specified date. SMALLER <n> Messages with an [RFC-2822] size smaller than the specified number of octets. SUBJECT <string> Messages that contain the specified string in the envelope structure's SUBJECT field TEXT <string> Messages that contain the specified string in the header or body of the message. TO <string> Messages that contain the specified string in the envelope structure's TO field. UID <sequence \answered="" \deleted="" \draft="" are="" corresponding="" do="" flag="" have="" identifier="" identifiers="" messages="" not="" permitted.="" ranges="" sequence="" set="" set.="" set.<="" specified="" td="" that="" the="" to="" unanswered="" undraft="" unique="" with=""><td></td><td>Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within or later than the specified date.</td></sequence></string></string></string></n>		Messages whose [RFC-2822] Date: header (disregarding time and timezone) is within or later than the specified date.	
SUBJECT <string> Messages that contain the specified string in the envelope structure's SUBJECT field TEXT <string> Messages that contain the specified string in the header or body of the message. TO <string> Messages that contain the specified string in the envelope structure's TO field. UID <sequence \answered="" \deleted="" \draft="" are="" corresponding="" do="" flag="" have="" identifier="" identifiers="" messages="" not="" permitted.="" ranges="" sequence="" set="" set.="" set.<="" specified="" td="" that="" the="" to="" unanswered="" undeleted="" undraft="" unique="" with=""><td>SINCE <date></date></td><td>Messages whose internal date (disregarding time and timezone) is within or later than the specified date.</td></sequence></string></string></string>	SINCE <date></date>	Messages whose internal date (disregarding time and timezone) is within or later than the specified date.	
 Astring> Messages that contain the specified string in the envelope structure's SUBJECT field TEXT <string> Messages that contain the specified string in the header or body of the message.</string> TO <string> Messages that contain the specified string in the envelope structure's TO field.</string> UID <sequence corresponding="" identifier="" identifiers="" li="" messages="" set.<="" specified="" the="" to="" unique="" with=""> Sequence set ranges are permitted. UNANSWERED Messages that do not have the \Answered flag set. UNDRAFT Messages that do not have the \Deleted flag set. UNDRAFT Messages that do not have the \Draft flag set. </sequence>	SMALLER <n></n>	Messages with an [RFC-2822] size smaller than the specified number of octets.	
TO <string> Messages that contain the specified string in the envelope structure's TO field. UID <sequence \answered="" \deleted="" \draft="" are="" corresponding="" do="" flag="" have="" identifier="" identifiers="" messages="" not="" permitted.="" ranges="" sequence="" set="" set.="" set.<="" specified="" td="" that="" the="" to="" unanswered="" undeleted="" undraft="" unique="" with=""><td></td><td>Messages that contain the specified string in the envelope structure's SUBJECT field.</td></sequence></string>		Messages that contain the specified string in the envelope structure's SUBJECT field.	
UID <sequence set=""> Messages with unique identifiers corresponding to the specified unique identifier set. Sequence set ranges are permitted. UNANSWERED Messages that do not have the \Answered flag set. UNDELETED Messages that do not have the \Deleted flag set. UNDRAFT Messages that do not have the \Draft flag set.</sequence>	TEXT <string></string>	Messages that contain the specified string in the header or body of the message.	
set> Sequence set ranges are permitted. UNANSWERED Messages that do not have the \Answered flag set. UNDELETED Messages that do not have the \Deleted flag set. UNDRAFT Messages that do not have the \Draft flag set.	TO <string></string>	Messages that contain the specified string in the envelope structure's TO field.	
UNANSWERED Messages that do not have the \Answered flag set. UNDELETED Messages that do not have the \Deleted flag set. UNDRAFT Messages that do not have the \Draft flag set.	UID <sequence< td=""><td>Messages with unique identifiers corresponding to the specified unique identifier set.</td></sequence<>	Messages with unique identifiers corresponding to the specified unique identifier set.	
UNDELETED Messages that do not have the \Deleted flag set. UNDRAFT Messages that do not have the \Draft flag set.	set>	Sequence set ranges are permitted.	
UNDRAFT Messages that do not have the \Draft flag set.	UNANSWERED	Messages that do not have the \Answered flag set.	
gg	UNDELETED	Messages that do not have the \Deleted flag set.	
LINELACCED. Manager that do not have the \Floridation and	UNDRAFT	Messages that do not have the \Draft flag set.	
UNFLAGGED INIESSAGES MALGO NOLHAVE ME \FIAGGEG HAG SEL	UNFLAGGED	Messages that do not have the \Flagged flag set.	
UNKEYWORD Messages that do not have the specified keyword flag set.		Messages that do not have the specified keyword flag set.	
UNSEEN Messages that do not have the \Seen flag set.	UNSEEN	Messages that do not have the \Seen flag set.	

<ImapLoadArray Into="MyResultSet" Host="MyServer.com" Port="X"
SSL="TRUE" Username="Me" Password="Something" MarkAsSeen="TRUE">
SINCE 15-02-2018
</ImapLoadArray>

◆ PdfLoadInfo

Loads the information of a PDF file into the context.

Attributes

Path

Specifies the path to the file. If the file does not exist no error will be thrown, instead empty varibles will be introduced. (Unless Strict is set).

Prefix

Specifies a prefix to be prepended on all introduced variables. When set all variables will have the name "X.Y" where "X" is the prefix and "Y" is the variable name.

Strict

Boolean value (TRUE/FALSE) indicating if the file should be always verified to exist, when set to TRUE and the file does not exist an exception will be thrown. Same will happen if an empty path is specified. Defaults to FALSE.

Introduced Context Variables

PdfNumPages

Number of pages in the PDF file.

PdfMinWidth and PdfMaxWidth

Minimum and maximum page width of the PDF (in inches).

PdfMinHeight and PdfMaxHeight

Minimum and maximum page height of the PDF (in inches).

<PdfLoadInfo Path="Info.txt"/>

♦ PdfLoadTextArray

Loads the plaint-text contents from a PDF file into the context as an array of objects, each containing two properties "PageNumber" and "PageText".

Attributes

Path

Specifies the path to the file. If the file does not exist no error will be thrown, instead empty varibles will be introduced. (Unless Strict is set).

Into

Specifies a name of the array-variable to store the result set. Defaults to "Array" when not specified. – Used in conjuction with action ForEachRow.

Strict

Boolean value (TRUE/FALSE) indicating if the file should be always verified to exist, when set to TRUE and the file does not exist an exception will be thrown. Same will happen if an empty path is specified. Defaults to FALSE.

<PdfLoadTextArray Path="Info.txt" Into="X"/>

◆ RegexExtract

Runs a regular-expression extraction on a given text and produces an array that can be used with ForEachRow. Upon any error an exception will be thrown, to override this behavior use the Silent attribute. The regular expression is specified in the innerText of the element. The matching will be done case-insensitive.

If the "Single" attribute is set to true, no array will be returned and instead the REGEX_* variables of a single match will be added to the context.

Attributes

Silent

When set to TRUE, causes any error during the execution to be ignored and written to the log file instead of throwing an exception. Defaults to FALSE.

IgnoreCase

Indicates if match should ignore case of the text. Defaults to TRUE.

Single

Indicate to not return an array but only the REGEX_* variables of the first match in the context.

Into

Specifies a name of the array-variable to store the result set. Defaults to "Array" when not specified. – Used in conjuction with action ForEachRow.

Source

Source text to be used with the pattern.

One field named **REGEX_N** will be created on the context indicating the number of matches found.

The fields available in the output array are the groups of the regular expression:

```
REGEX_0 STRING (Contains the whole match)
REGEX_1 STRING (First group)
REGEX_2 STRING (Second group)
REGEX_I STRING (Ith Group)
```

◆ SplitText

Splits the given text (inner contents) by the specified delimiter and stores each result in an array, the contents are trimmed after split. The array contains objects each having the properties "PartNumber", "PartText" and "PartLength".

Attributes

Into

Specifies a name of the array-variable to store the result set. Defaults to "Array" when not specified. – Used in conjuction with action ForEachRow.

Ву

Specifies the text to use as delimiter to split the input text.

```
<SplitText By="<BR>" Into="Result">[[My_Text_Var]]
```

♦ Switch

Executes an action based on the value specified. This element contains one or more <Case Value=""> elements. A "Default" element can also be present.

Attributes

Value

Value to test and to find an appropriate case.

♦ Subroutine

Defines a subroutine. Subroutines can be called later in code at any moment and as many times as desired.

Name Name of the subroutine.

```
<Subroutine Name="MySub">
    Actions ...
</Subroutine>
```

◆ CallSubroutine

Calls a subroutine. The current context will be available to the subroutine. From within a subroutine executing <Stop/> will cause the subroutine to return.

Name Name of the subroutine.

◆ Call

Calls another XML configuration file. Useful if you have processes in different files. The entire context will be shared with the specified config file.

<Call>MyFile.xml</Call>

◆ IFilterLoadText

Loads the plaint-text contents from any file using the IFilter interface. The respective IFilter must be installed on your machine. A new variable **FileText** will be introduced into the context with the plain-text contents of the file.

Attributes

Path

Specifies the path to the file. If the file does not exist no error will be thrown, instead empty varibles will be introduced. (Unless Strict is set).

Strict

Boolean value (TRUE/FALSE) indicating if the file should be always verified to exist, when set to TRUE and the file does not exist an exception will be thrown. Same will happen if an empty path is specified. Defaults to FALSE.

<IFilterLoadText Path="Info.doc"/>

♦ PdfLoadText

Loads the plaint-text contents from a PDF file using Poppler's pdftohtml utility and then parsing the HTML contents. A new variable **FileText** will be introduced into the context with the plain-text contents of the file.

Attributes

Path

Specifies the path to the file. If the file does not exist no error will be thrown, instead empty varibles will be introduced. (Unless Strict is set).

Strict

Boolean value (TRUE/FALSE) indicating if the file should be always verified to exist, when set to TRUE and the file does not exist an exception

will be thrown. Same will happen if an empty path is specified. Defaults to FALSE.

<PdfLoadText Path="Info.doc"/>

♦ SendMail

Sends an email. SMTP parameters are required. It also supports internal elements: <Subject>, <Message>, <To>, <Bcc>, <Cc>, and <Attachment> elements (the latter each with a filename to attach). A single <Message> element must be present with the message contents. — Note that the <To>, <Bcc>, <Cc> and <Attachment> elements can be present more than once, or they can have their contents separated by "|" in a single-element.

Attributes

Host

Host address of the SMTP server.

Port (optional)

Port of the SMTP server (defaults to 465).

SSL (optional)

Boolean value (TRUE/FALSE) indicating if SSL should be used (defauls to TRUE).

Username

Name of the user to use to login to the SMTP server.

Password

Password of the user to login to the SMTP server.

Silent (optional)

When set to TRUE, causes any error during the statement execution to be ignored and written to the log file instead of throwing the exception. Defaults to FALSE.

From

Email address of the sender.

FromName (optional)

Display name to be shown as sender.

To

Email address of recipient.

Subject (optional)

Subject line.

◆ PdfMerge

Merges one or more PDF files into a single PDF file.

Attributes

Output

Specifies the path to the output file. The file will be created.

Input

Specifies a list of input PDF files to be merged. Each file must be separated by a | (ALT+124) symbol. If one of the files does not exist no error will be thrown (unless Strict is set) but the output file will not be created.

Strict

Boolean value (TRUE/FALSE) indicating if the file should be always verified to exist, when set to TRUE and the file does not exist an exception will be thrown. Same will happen if an empty path is specified. Defaults to FALSE for silent failure.

```
<PdfMerge Output="X.pdf" Input="A.pdf|B.pdf|C.pdf"/>
```

◆ Sleep

Puts the process to sleep for a certain amount of time.

Attributes

Time

Specifies the amount of milliseconds to sleep.

<Sleep Time="1000"/>

◆ ReplaceText

Replaces a string by another in the specified innerText.

Attributes

Old

Value to search in the input string (to be replaced).

New

Value to use as replacement.

Into

Name of the output variable (defaults to Text).

<ReplaceText Into="Z" Old="X" New="Y">XYXYAZ</ReplaceText>

♦ MsgLoadInfo

Loads information from a MSG file in Outlook format. All information obtained including attachments will be available as variables.

Attributes

Path

Specifies the path to the MSG file. If the file does not exist no error will be thrown, instead empty varibles will be introduced. (Unless Strict is set).

Strict

Boolean value (TRUE/FALSE) indicating if the file should be always verified to exist, when set to TRUE and the file does not exist an exception will be thrown. Same will happen if an empty path is specified. Defaults to FALSE.

Prefix

Specifies a prefix to be prepended on all introduced variables. When set all variables will have the name "X.Y" where "X" is the prefix and "Y" is the

variable name. Note that variables inside an array will not have this prefix applied (i.e. MSG ATTACHMENTS).

Introduced Context Variables

MSG_SUBJECT

Subject of the email.

MSG_BODY_TEXT

Text contents of the email's message body.

MSG_RCPT_TO

Email addresses found in the "To" header (separated by "|").

MSG RCPT CC

Email addresses found in the "Cc" header (separated by "|").

MSG RCPT BCC

Email addresses found in the "Bcc" header (separated by "|").

MSG RCPT

All the email addresses found in any of the email headers (To, Cc, or Bcc) separated by "|" character.

MSG_ATTACHMENTS

An array of attachments, can be traversed using ForEachRow, and each object in this array contains the following two fields:

MSG_ATTACHMENT_FILENAME

The file name of the attachment.

MSG_ATTACHMENT_DATA

Contents of the attachment. If the size (in bytes) of this ByteArray is required, the COUNT function can be used to determine it, such as: [[COUNT MSG_ATTACHMENT_DATA]].

NOTE: The MSG_ATTACHMENT_DATA value will be provided as a ByteArray, to actually use it as a string you have to use [[STRING MSG_ATTACHMENT_DATA]], if you want a HexString you can use [[HEXSTR MSG_ATTACHMENT_DATA]].