

Purpose

This component reads context variables from various files

The configuration of the files (context properties file filter) to read can be:

Configuration	What happens
Points to a file	Exact this file will be read
Points to a directory	Reads all property-files within this directory
Points to a file with wildcard characters	Use this as file filter

It is possible to use variables withing the configuration.

In the advanced settings you can configure placeholders which can be used in the values read from the context properties and they will simply be replaced by string replacement with the configured replacement values.

It is also optional possible to use the replacements within the file filters.

Talend-Integration

This component can be found in the palette under Management

This component provides several return values.

Parameters

Property	Content												
Schema	The schema of the output												
Sheet name	<p>The schema is fixed and shows the schema of the outgoing flow named “Context Variables”. This flow contains ALL variables read from the files.</p> <table> <tr> <th>Column</th><th>Meaning</th></tr> <tr> <td>VAR_NAME</td><td>Name of the context var</td></tr> <tr> <td>VAR_VALUE</td><td>String representation of the value</td></tr> <tr> <td>CONFIGURED_IN_CURR_JOB</td><td>True if the variable is configured in the current job</td></tr> <tr> <td>IS_PROMPT</td><td>Variable is a prompt</td></tr> <tr> <td>SOURCE_FILE</td><td>From which file the variable was finally read</td></tr> </table>	Column	Meaning	VAR_NAME	Name of the context var	VAR_VALUE	String representation of the value	CONFIGURED_IN_CURR_JOB	True if the variable is configured in the current job	IS_PROMPT	Variable is a prompt	SOURCE_FILE	From which file the variable was finally read
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SOURCE_FILE	From which file the variable was finally read												
Load Context Properties Files	<p>If checked, the component reads variables from context files. All files must be formatted as properties file. https://docs.oracle.com/cd/E23095_01/Platform.93/ATGProgGuide/html/s0204propertiesfileformat01.html The expected encoding is ISO-8859-1 UTF-8 characters not part of ISO-8859-1 must be encoded (see the documentation above)</p>												
Prevent embedded jobs from loading if already loaded	<p>If true this takes care the first job run containing this component and reads context file prevents all other jobs from loading also the properties files. This is very useful to prevent redundant loading of the files and allows to test child jobs without any change to use the context load.</p>												
Context property file filters	<p>The component uses these entries to find the files to read in the order of this list. You can also specify if the file must be present or for wildcard filters there must be at least one file.</p>												
Apply value replacement also for	<p>If true the component also tries to replace the configured placeholders within the file filters.</p>												
Encrypt password	<p>Talend use an internal fixed set password to encrypt the password value. This option is in former version wrong labelled “Encrypt” instead of “Decrypt”</p>												
Set master password	<p>Talend use a fix configured password. You can decide to use your own password. You need</p>												

	your own routine to encrypt the passwords.
Master password	The password which will be used for the symmetric decryption of the passwords in the context files.
Allow file includes	This option enables the loading of context files which path (or directory) can be taken from a context var value. The same possibilities as you can use in the file filters can be used here. If the file has none or only a relative path the path of the current context file serves as root-path.
Pattern to identify file include keys	Setup here the regex pattern to identify a context variable as reference to another context file.
Print variables	Boolean value and if true (default) the component send the variables to the outgoing flow to be printed with <code>etLogRow</code> e.g.

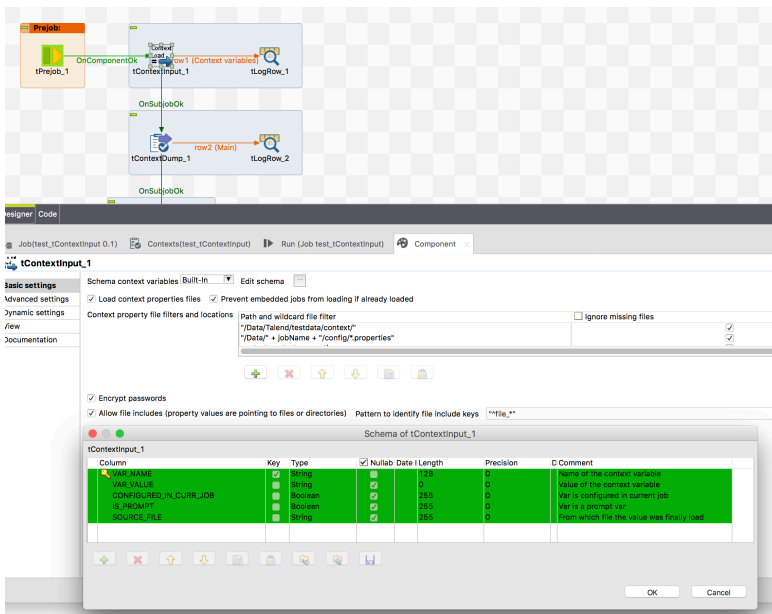
Advanced settings

Property	Content
Replacements for value	You can use placeholders in your context values and in the list you need to configure the placeholders and the values replacing the placeholders. You can also configure if the replacement values should be converted to upper or lower case or keep them unchanged.

Return values of the component:

Value	Content
NB LINE	Number of lines read
ERROR MESSAGE	Error message if something went wrong

Scenario 1: Read context variables from various files



Here the output showing the component has read 3 files



Job test_tContextInput

Execution

Run Kill Clear

Starting job test_tContextInput at 18:20 14/08/2019.

[statistics] connecting to socket on port 3357
[statistics] connected
Context: Default

tLogRow 1				
VAR_NAME	VAR_VALUE	CONFIGURED IN CURR JOB	IS PROMPT	SOURCE FILE
ARTSYS1 DB AdditionalParams	artist	false	false	/Data/Talend/testdata/context/context1.properties
ARTSYS1 DB Database	artist	false	false	/Data/Talend/testdata/context/context1.properties
ARTSYS1 DB Login	admin	false	false	/Data/Talend/testdata/context/context1.properties
ARTSYS1 DB Password	sql	false	false	/Data/Talend/testdata/context/context1.properties
ARTSYS1 DB Port	1433	false	false	/Data/Talend/testdata/context/context1.properties
ARTSYS1 DB Schema	gasgvl	false	false	/Data/Talend/testdata/context/context1.properties
ARTSYS1 DB Schema pps	pps	false	false	/Data/Talend/testdata/context/context1.properties
ARTSYS1 DB Schema PFSRA	PFSRA	false	false	/Data/Talend/testdata/context/context1.properties
ARTSYS1 DB Schema RADIO	RADIO	false	false	/Data/Talend/testdata/context/context1.properties
ARTSYS1 DB Schema VERTEILUNG	VERTEILUNG	false	false	/Data/Talend/testdata/context/context1.properties
ARTSYS1 DB Server	MSQ11	false	false	/Data/Talend/testdata/context/context1.properties
B17 CORE DB Database	b17_data dev	true	true	/Data/Talend/testdata/context/context2.properties
B17 CORE DB Login	nucleus job	false	false	/Data/Talend/testdata/context/context2.properties
B17 CORE DB Password	53c61b4c0ed5f89f718b	false	false	/Data/Talend/testdata/context/context2.properties
B17 CORE DB Port	5432	false	false	/Data/Talend/testdata/context/context2.properties
B17 CORE DB Schema	b17_core	true	false	/Data/Talend/testdata/context/context2.properties
B17 CORE DB Server	coredbdev01.gvl.local	false	false	/Data/Talend/testdata/context/context2.properties
B17 MISC DB Database	b17_data dev	false	false	/Data/Talend/testdata/context/context3.properties
B17 MISC DB Login	nucleus job	false	false	/Data/Talend/testdata/context/context3.properties
B17 MISC DB Password	53c61b4c0ed5f89f718b	false	false	/Data/Talend/testdata/context/context3.properties
B17 MISC DB Port	5432	false	false	/Data/Talend/testdata/context/context3.properties
B17 MISC DB Schema	b17_misc	false	false	/Data/Talend/testdata/context/context3.properties
B17 MISC DB Server	coredbdev01.gvl.local	false	false	/Data/Talend/testdata/context/context3.properties
new var		true	false	null

2019-08-14 18:20:20 | aGeHtT | aGeHtT | 33698 | COMPDEV | test_tContextInput | UaGwMLm5BemaI83lxTQgVA | 0.1 | Default | | begin | |
295 milliseconds
2019-08-14 18:20:20 | aGeHtT | aGeHtT | 33698 | COMPDEV | test_tContextInput | UaGwMLm5BemaI83lxTQgVA | 0.1 | Default | | end | success | 295
[statistics] disconnected
Job test_tContextInput ended at 18:20 14/08/2019. [exit code=0]

☐ Line limit 100 ☒ Wrap

Scenario 2: Read from cells referenced by the header line

The screenshot displays the Talend Studio interface for configuring the **tFileExcelSheetInput_1** component. The workflow diagram at the top shows a sequence: **tFileExcelWorkbookOpen_1** → **OnSubjobOk** → **tFileExcelSheetInput_1** (row1 (Main)) → **tLogRow_1**.

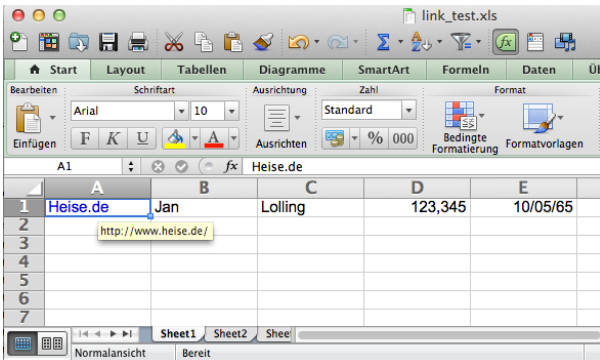
The configuration panel for **tFileExcelSheetInput_1** is open, showing the **Basic settings** tab. The **Header line** is set to **1**. The **Column configuration** table is visible, showing columns **date**, **value**, **id**, and **result** with their corresponding header names and checkboxes for **Ignore if missing**, **Read cell comment**, **Use last value for empty**, and **Ignore Errors**.

Column	Name in Header	Ignore if missing	Read cell comment	Use last value for empty	Ignore Errors
date	"Create\date"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
value	"Cost per piece"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
id	"Customer\{A-Z}*"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
result	"Calculated Costs"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

In this scenario the column the header line will configure positions. The component tries to find the column by its name (case insensitive) or by regularly expressions (also case insensitive).

Scenario 3: Read hyperlinks from a cell

The file to read looks like this:



Here a simple job reading the hyperlink and separate label and URL with a regex expression.

In the component tFileExcelSheetInput activate in the advanced settings the options “Return Hyperlink URL” and “Concatenate Label | URL” (if you only need the URL, disable the last option and leaf out the regex component).

The top part of the screenshot shows a job diagram with the following components: tFileExcelWorkbookOpen_1, tFileExcelSheetInput_1, tExtractRegexFields_1, and tLogRow_1. The job is running, with '1 rows in 0.02s' and '66.67 rows/s' for tFileExcelSheetInput_1, and '1 rows in 0.02s' and '55.56 rows/s' for tExtractRegexFields_1.

The bottom part shows the configuration for the tExtractRegexFields_1 component. The 'Field to split' is set to 'link'. The 'Regex' is set to `"^([\\-A-Za-z0-9/?&:\\.\\\\\\\\]*)([\\-A-Za-z0-9/?&:\\.\\\\\\\\]*)"`. The 'Schema of tExtractRegexFields_1' is shown below.

Column	Key	Type	Nullab	Date	Patte	Ler
link		String				
fname		String				
lname		String				
number		Doubl				
date		Date			"dd-MM-y	

Column	Key	Type	Nullab	Date	Patte	Ler
link		String				
link_label		String				
link_url		String				
fname		String				
lname		String				
number		Doubl				
date		Date			"dd-MM-y	

The tExtractRegexFields expects after the parsed field (link) additional fields as much as you want to extract content by regex groups. It is highly recommended to check the regex expression with external tools and take care you get only one regex sequence with (in this case) to groups. Please keep in mind every regex sequence causes an output record (e.g. an additional output record).

The regex expression here is: `"^([\\-A-Za-z0-9/?&:\\.\\\\\\\\]*)([\\-A-Za-z0-9/?&:\\.\\\\\\\\]*)"`

The output of the job:

tLogRow_1						
link	link_label	link_url	fname	lname	number	date
Heise.de	http://www.heise.de/	Heise.de	http://www.heise.de/	Jan	Lolling	123.345
						10-05-1965