 **Talend User Components tJSONDoc\***

# Purpose

This bundle of components is dedicated to work with JSON documents in the most flexible and unlimited way.

Following components exists:

|  |  |
| --- | --- |
| **Component** | **Purpose** |
| tJSONDocOpen | Holds the root of the json document and can be initially loaded from various sources  Validate the document with json schema |
| tJSONDocInput | Selects objects via JSON-path and reads attribute values |
| tJSONDocExtractFields | Selects objects via JSON-path and reads attribute values but can take the JSON document from an incoming flow. It follows the Talend component pattern of the t\*ExtractFields – components and has beside of this the same features as tJSONDocInput |
| tJSONDocOutput | Builds JSON objects or arrays and sets their attributes |
| tJSONDocSave | Renders the final JSON tree pretty formatted as String  Validate the document with json schema |
| tJSONDocInputStream | Reads large JSON files and uses a stream parser to read the values or objects. |
| tJSONDocValidationInput | Provides the validation result as flow. No output records mean no problems (or no validation was done) |
| tJSONDocMerge | Merge one json document (and here parts of it) in another json document |
| tJSONDocDiff | Compare 2 json documents and provide a flow with difference details |

The idea behind these components is to assemble complex JSON documents in a fain grained way. Means you read or write in sub jobs only parts of the documents and the components references its parent nodes and enhance them.

This way you can build or read JSON documents in any way. You can of course read and write similar – means you can perform any transformation.

These components use the JSON path syntax:

<http://goessner.net/articles/JsonPath/>

To check your json path expressions you can use online evaluators like this:

<http://jsonpath.com/>

But for special features like automatically creation of missing nodes in a hierarchy, only the dot-notation is currently supported.

## Talend-Integration

You find these components in the studio in the palette under JSON.

# Component tJSONDocOpen



This component is the root of the JSON document.

This component can create a new empty root (as Object or as Array) or can read the initial JSON document from a source:

* A file
* The input field containing a Java String or plain text representing a JSON document
* A column of an input flow

Because this component carries the necessary library, this component is always necessary in any use case.

Where you place this component decides about the overall document structure.

If you place it at the beginning of a job, this means, in your job you build one document.

If you place within an iteration or flow (this is always possible) it means you create as much documents as you have rows in your flow (e.g. per request or database record)

## Basic settings

|  |  |
| --- | --- |
| **Property** | **Content** |
| Setup the document as/from | Choose here how to create the initial nodes. |
| Validate input | This option appears if you have setup a json schema in the advanced settings. |
| Die on validation errors | This option allows to decide should the component die if the json-schema-validation fails or not. |

## Various ways to build the initial document

**Create an empty ObjectNode**

This creates an empty node: {}

**Create an empty ArrayNode**

This creates an empty array node: []

**Read from input flow column**

This is especcially useful if the document has to be created(initiated) within a flow, e.g. every request of a tRESTRequest have to build its own new document or build for every database record one document. In this case decide in which column of the incoming schema the initial json content has be read.

**Read from file**

Point here to a file containing the json content you want to read.

**Read from input field below as Java Code**

The now visible input field expects Java Code creating the json content as String. This helps in case you need some dynamic in this initial content.

Here an example how it can look like:

"{\n"

+ " \"level-1\" : {\n"

+ " \"level-2\" : [ {\n"

+ " \"id\" : \"abc\",\n"

+ " \"level-3\" : [ {\n"

+ " \"integer-value\" : 10,\n"

+ " \"jsonString\" : {\n"

+ " \"a1\" : \"v1\"\n"

. . .

+ "}"

The option: “Simplified line breaks” means you can put here content in the way you usually do e.g. in the database input components for the SQL. In this case the line breaks will be added automatically, and you do not need to chain the content with Java String operation, and you do not need to quote every line.

Here an example of the simplified notation:

"{

\"level-1\" : {

\"level-2\" : [ {

\"id\" : \"abc\",

\"level-3\" : [ {

\"integer-value\" : 10,

\"float\_val\" : 1.1,

\"double\_val\" : 1.2

} ]

] }

}

}"

You have to escape the double quotas within the content, and it needs a double quota at the start and the end.

This is also the place where you put the context variable containing your json content.

E.g.:

context.json

**Read from input field below as plain text**

The same content as abow but now as real plain json content without any Java language parts.

This is also a very good help while testing your job. Simply pleace here your test document if you have to parse it.

{

"level-1" : {

"level-2" : [ {

"id" : "abc",

"level-3" : [ {

"integer-value" : 10,

"float\_val" : 1.1,

"double\_val" : 1.2,

"bigDec\_value" : 1.3,

"bool\_val" : **true**,

"date\_val" : "14-06-2016",

"jsonString" : {

"a1" : "v1"

},

## Advanced Settings

|  |  |
| --- | --- |
| **Property** | **Content** |
| JSON schema | Choose if you want to use a json schema to validate the initial document and where the schema should be taken.  **No JSON schema**: no schema avaliable, no validation possible  **Read from plain text**: This option adds an input box (mandatory) below and here you can put in the text of the schema without any java code and escape chars.  **Read freom java code**: This option adds an input box (mandatory) below which expects java code to setup the schema. It means the schema is either a String literal or you add here a context or globalMap variable containing the schema text.  This schema can be used within the tJSONDocOpen and the tJSONDocSave component. Both are referencing to exact this json-schema!  If you choose anything else than “No JSON schema” then in the basic settings, you will get the input check fields to enable json schema validation. |

## Return values

|  |  |
| --- | --- |
| **Return value** | **Content** |
| ERROR\_MESSAGE | If the parsing will fail, the error message goes here. |
| CURRENT\_NODE | This is the root JsonNode in this case. |
| CURRENT\_PATH | The current path to the current node (always $ in this component).  This return value here exists because of simplifiying the process. |
| COUNT\_OBJECTS\_WITHIN\_ROOT | Number of objects in the root node (at the very first level, no recursive count) |
| NB\_VALIDATION\_PROBLEMS | Number problems found in json-schema validation. 0=no problems. |

# Component tJSONDocInput



This component is used to read values from the JSON document.

It can build an hierachy of components (also with tJSONDocOutput) to reflect the JSON document structure.

## Basic settings

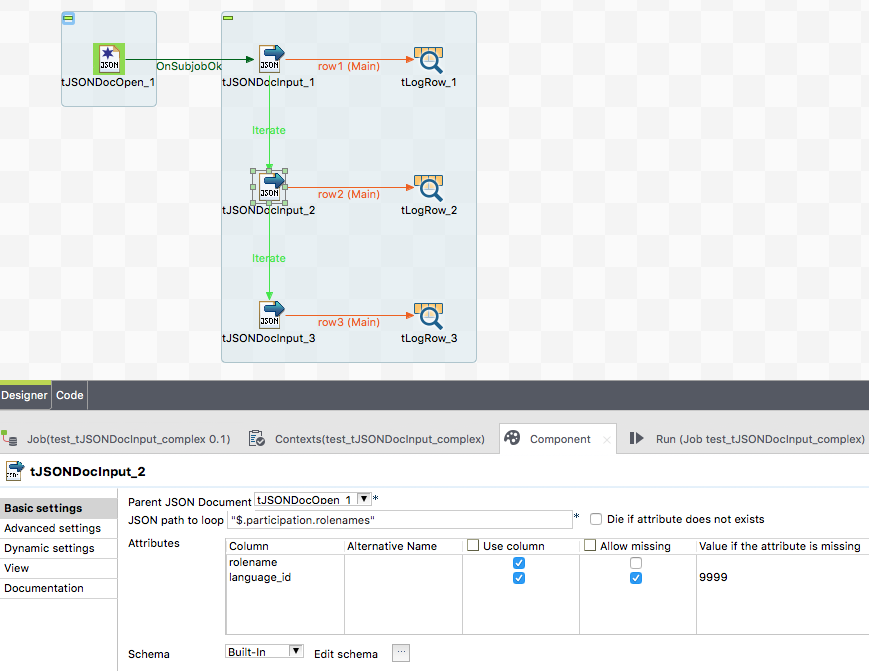
|  |  |
| --- | --- |
| **Property** | **Content** |
| Parent JSON Document | Choose here thet JSONDoc\* component which current processing node should be the starting point to read. |
| Take the values from the referenced parent object | If you want to read (reuse) the json object from the parent component (because of other attribute set etc.) check this option. The option below will disappear. |
| JSON path to loop | This is the path to the json document which surfes as loop element.  You can set here an absolute json-path or a relative attribute path.  **If the path starts with an $ the path will be parsed with the original json-path methology**.  **If the path does not start with an $, it means it is simple a chain of attributes describing the way to the target loop node** but starting from a particular node. This goes typically with a parent JSON document like tJSONDocInput or tJSONDocOutput.  **The value "." (standalone) means, the source for the attributes is the referenced parent object.** This way 2 components can read from the same object but e.g. different attributes with different constraints (not null or missing). You could also simply check the option above!  **If the addressed node is an object node,** the component reads the attributes from this node and provides only one row.  **If the addressed node is an array node** which the component reads the attributes of the addressed child nodes and provides one row per child node.  **If the addressed node is a value array**, the component provides per element in the array a new row and set the value into the given schema columns. Actually, it does not make sense to have a schema with more than one column in this mode. |
| Send an empty record if the parent does not exist | With this option you can solve use cases in which you have to provide default values even if the parent object does not exist. Otherwise there is no record and therefore you cannot apply a “missing attribute”-value. |
| Die if attribute does not exist | If the JSON path does not exists but the existance of the objects withing the path is mandatory you can let the component die with a meaningful error message. |
| Die if parent object is empty | In case of the parent object is an array and there should exists objects within the array, this option detects that and let the component die. |
| Attributes | Configure here the attributes you want to read from the json objects.  **Column:** the schema column  **Alternative Name:** You can set here the name of the attribute if it is not the same as the schema column name. This way you can set names which are not compatible with Java conventions like attribute names with a minus e.g.  If this expression results in an empty or null name, the schema name will be used instead.  **Use Column:** Decide here which column you want to fill from the json object.  **Allow missing:** Set this option if the attribute can be missed. The default option is off.  **Value if attribute is missing:** Set here a replacement value for missing attributes. This value could be used later in the job to detect if the attribute was null or missing. |
| Schema | The default schema editor. Please use the Date pattern to parse the Date strings in the json document. JSON actually does not have a standard date pattern or even such a data type. It depends on string parsing to work with dates and timestamps.  The component use a internal default pattern "yyyy-MM-dd’T’HH:mm:ss:SSS" if you do not provide a date pattern in the schema. |
| Provide values as comma separated list | If you get a single attribute from the source, you can get with this option a comma separated list of all values (also optionally formatted as SQL list). Such a list is great if you use this as where condition for a next level query. This list is a return value VALUES\_AS\_COMMA\_SEP\_LIST |

## Return values

|  |  |
| --- | --- |
| **Return value** | **Content** |
| ERROR\_MESSAGE | If the parsing will fail, the error message goes here. |
| CURRENT\_NODE | This is the current JsonNode from which the attributes are currently read. |
| NB\_LINE | The number of outgoing rows. |
| NB\_NOT\_NULL\_ATTRIBUTES | The number of attributes which are not missing and not null in the current node |
| CURRENT\_PATH | The JSON-Path to the current node as String |
| COUNT\_OBJECTS | Count objects to iterate through. The number of objects is known by the parent object. |
| PARENT\_ATTRIBUTE\_EXISTS | The parent attribute (the attribute to address the current object) exists -> true, otherwise false |
| VALUES\_AS\_COMMA\_SEP\_LIST | String with comma separated list of all values. |

## Scenario: Reading a document with multiple levels:

This shows how to chain the processing with Iterate flows.



The json path points to the node which is the loop element.

Because we have a json path starting with $ we read just from the root element. But is could also be possible to reference the tJSONDocInput\_1 and use a relative path which takes the current node from tJSONDocInput\_1 as starting point to find the node(s) to read from.

Take note of the value 9999 in the column Value if attribute is missing. This value will be send if the attribute is missing at all. A null value is NOT a missing attribute!

## Scenario: Reading document with multiple nested arrays

The goal is to have values from the higher levels and the details of the lowest levels in one flow.

There are 2 multile ways: This scenario describes the way by addressing the objects.

**… and here the desired output:**

header |group\_header |item\_key

------------------------------------------------------------------

global header1|group\_header1|1

global header1|group\_header1|2

global header1|group\_header1|3

global header1|group\_header2|1

global header1|group\_header2|2

global header1|group\_header2|3

global header2|group\_header1|1

global header2|group\_header1|2

global header2|group\_header1|3

global header2|group\_header2|1

global header2|group\_header2|2

global header2|group\_header2|3

**Here the input:**

[

{

"header": "global header1",

"items": [

{"group\_header": "group\_header1",

"item\_data": [

{"item-key": 1},

{"item-key": 2},

{"item-key": 3}

]

},

{"group\_header": "group\_header2",

"item\_data": [

{"item-key": 1},

{"item-key": 2},

{"item-key": 3}

]

}

]

},

{

"header": "global header2",

"items": [

{"group\_header": "group\_header1",

"item\_data": [

{"item-key": 1},

{"item-key": 2},

{"item-key": 3}

]

},

{"group\_header": "group\_header2",

"item\_data": [

{"item-key": 1},

{"item-key": 2},

{"item-key": 3}

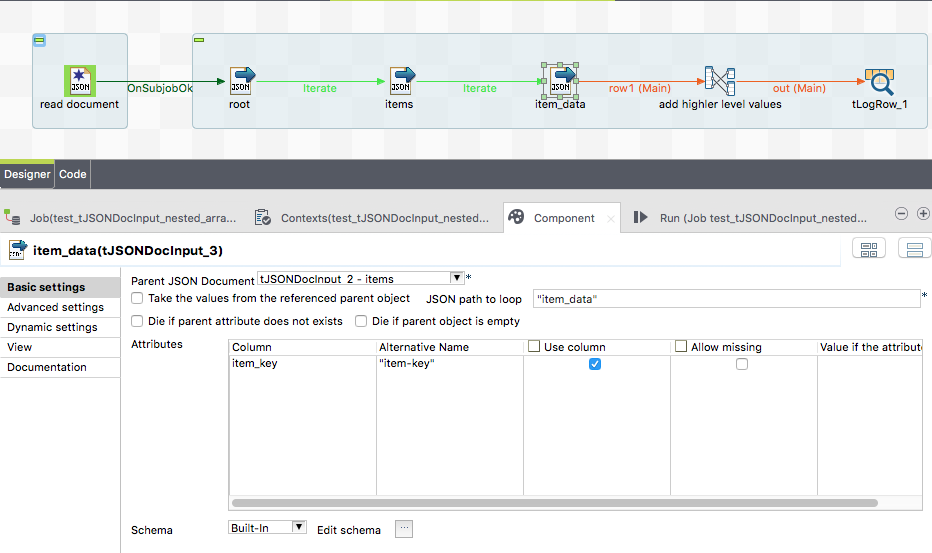
]

}

]

}

]

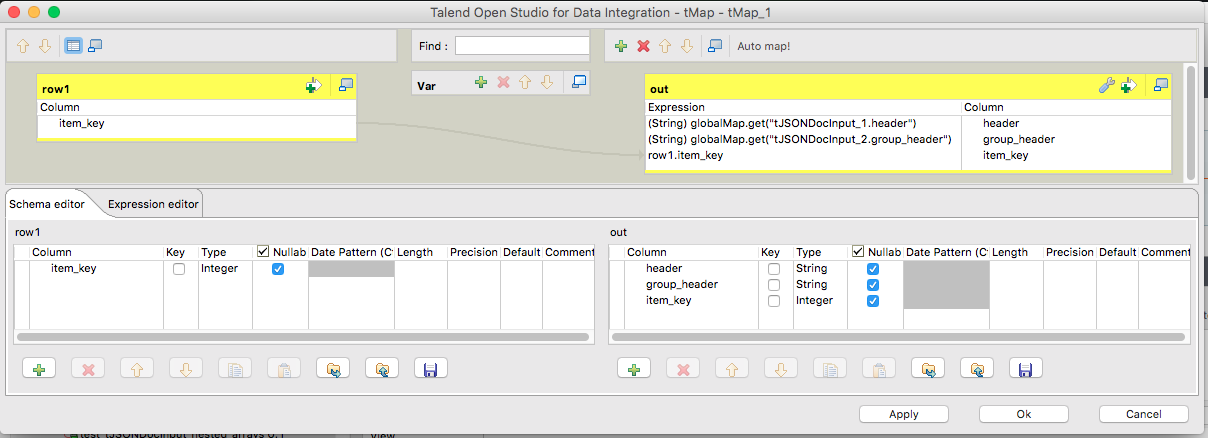
**Job design to solve this use case:** 

The first tJSONDocInput references as parent the tJSONDocOpen component. All other references the current predecessor.

To provide the higher-level values we have to use a tMap and adds these values into the output flow.

All components put their current values into the global map with the key: <unique-component-id>.<schema-column-name>

Example refer to the picture below.



# Component tJSONDocOutput



This component is dedicated to creating and write all kind of json nodes.

It can be chained with other tJSONDoc components and work relatively on top of the current node of the referenced parent component.

It is also possible to use foreign key columns to mount objects to higher level objects.

## Basic settings

|  |  |
| --- | --- |
| **Property** | **Content** |
| Parent JSON Document | Choose here the JSONDoc\* component which current processing node should be the starting point to read. |
| Use foreign key column to address parent node | This option enables the foreign key assignment feature. This feature allows to add ther current nodes to a higher-level node. Example an order item to an order and the matching order will be addressed by an order\_id got from the order-item (foreign key). |
| Foreign key column | Choose from the incoming flow the column which points to the higher-level object in the parent json object. This option appears if you check the option above. |
| Use the referenced parent object | Use this option if the referenced parent component has already the obeject as current node you want to write in here. |
| JSON path for the current parent | This is the path (in dot-notation) to the current element you want to create and write.  The last part of the path is the attribute under which the nodes are created or be written.  This option appears if you uncheck the option above. |
| Output structure | Setup here which kind of output structure you want:  **Array of Object nodes:** The component creates or uses an ArrayNode and add to this array node for every incoming row a new object node and set their attributes.  **One single object node:** The component creates or uses a single ObjectNode and set its attributes. In this mode multiple incoming rows actually does not make sense. The last record will determine the content.  **Array of simple values:** The component creates a value array and takes every incoming row as one value element. If the schema has multiple schema columns all column values are written as their own array value. It is actually more meaningful to have only one schema column. Actually, in this mode the schema should have only one column or only one column should be used here.  **Array of arrays:** The component creates per incoming row an array (every schema column carries one value in the array), and these arrays will be added to an array referenced by the component json path (just like in the option “Array of Object nodes”.  This mode is also known as CSV mode. Not a really well designed json document but unfortunately sometimes necessary to be compatible with old CSV interfaces. |
| Attributes | Configure here the attributes you want to read from the json objects.  **Column:** the schema column  **Alternative Name:** You can set here the name of the attribute if it is not the same as the schema column name. This way you can set names which are not compatible with Java conventions like attribute names with a minus e.g.  If this expression results in an empty or null name, the schema name will be used instead.  **Use Column:** Decide here which column you want to fill from the json object.  **Is a JSON object/array:** Check this option if the content of the schema column is a JSON node, otherwise the content will be treated as value and the content will be escaped to be compatible with json strings.  If the schema column is of an Object type the content will be taken as JsonNode object, if the content is of String type, the content will be parsed to a JsonNode.  **Omit attribute if value is null:** With this option you can prevent writing the attribute if the value is null |
| Schema | The default schema editor. Please use the Date pattern to parse the Date strings in the json document. JSON actually does not have a standard date pattern or even such a data type. It depends on string parsing to work with dates and timestamps.  The component use a internal default pattern "yyyy-MM-dd’T’HH:mm:ss:SSS" if you do not provide a date pattern in the schema. |

## Advanced settings

|  |  |
| --- | --- |
| **Property** | **Content** |
| SQL code in case of there are no records and therefore no keys | This option is part of the foreign key feature. In the return values you can get an SQL like String containing all the keys fetched in this component as list to use this in a where clause for the child records.  In case you do not have get any rows in this component you need a where condition which takes care you do not get any child records.  You could measure of course the number of incoming records and prevent the next parts of the job (reading and ading child objects) but you can also simplify the job design with a where condition which prevents the job from getting children for none existing parents. |

## Return values

|  |  |
| --- | --- |
| **Return value** | **Content** |
| ERROR\_MESSAGE | If the parsing will fail, the error message goes here. |
| CURRENT\_NODE | This is the current JsonNode from which the attributes are currently written. |
| NB\_LINE | The number of incoming rows |
| CURRENT\_PATH | The path to the current node as JSON-Path String |
| KEYS\_AS\_SQL\_IN\_CLAUSE | The primary keys fetched from the incoming flow.  Example: in (234,9341,632) |

## How foreign key assignment works

The great advantage of this mode is you reduce the queries in the source data drastically. In the best case you have to query the data as much you have levels and not as much you have parent instances.

Imagine, you have an order and order-item relation and your object contains about 100 orders.

With the foreign key mode, you need only 2 queries, otherwise you have to select the order-items once per order.

First of all, read the root objects and take care you mark ONE column as key column (you do not need to use this column in your json object). This procedure works only with one column marked as key column!

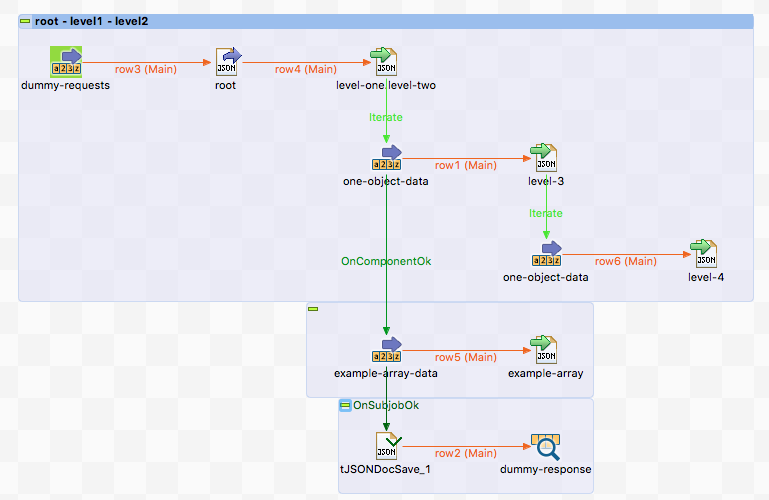
The tJSONDocOutput of the first (parent) flow memorizes all objects in a Map with a key (in case of there is one column marked as key column) and the current node as value.

The fetched keys will be provided as list (also SQL formatted if needed) to support the appropriated selection of the child objects for the read parent objects.

The referencing tJSONDocOutput for the children needs to read a foreign key column pointing to the root object (e.g. an order-number from an order-item). For every incoming record the child component takes the foreign key and ask the referenced parent component for an object with this key. The children will be added to the matching parents. You can take care there is always a parent (should be, but a cae of inconsistent data it could be the case a child point to a not existing parent). Simply let the component die if a child cannot be assigned to a parent.

## Scenario 1: Write a complex json document

This scenario shows how to build a multi-level json document like the example in tJSONDocOpen.



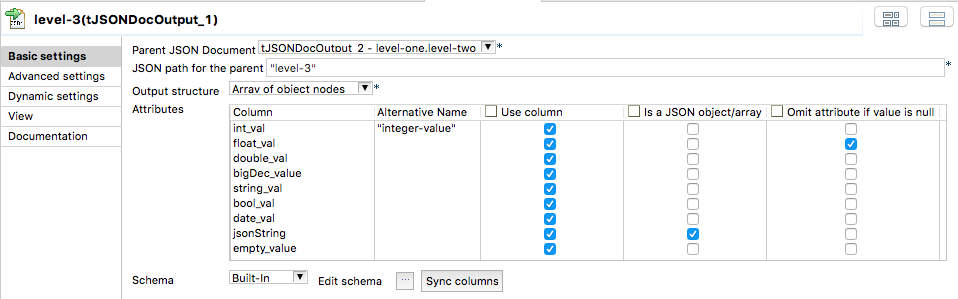
We have a json document with 4 levels and an additional value array.

Please note the order in which the rows and iterates will be processed.

At first one row will processed and right after this one row the iteration takes places also once a time.

One iteration per one output flow record. This is important because in the deeper levels you can build json objects as children of the current written object of the addressed parent object.

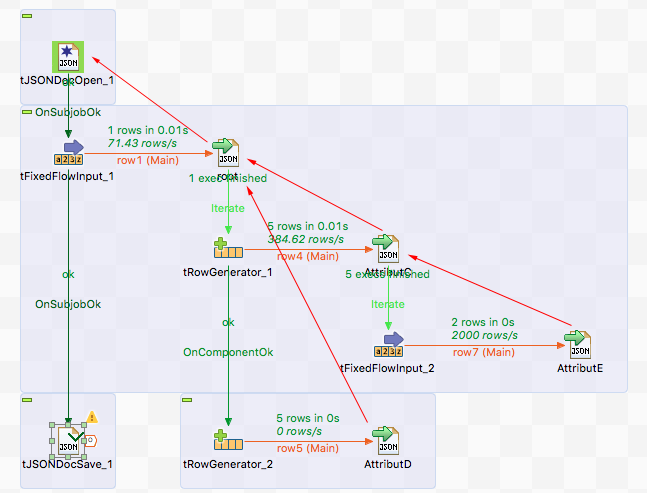
Here the settings of level-3:



As you can see it is based on the level-one.level-two node.

## Scenario 2: Example of multi-level document creation

This example shows a bit deeper how the concept of referencing to a parent component works.



The red arrows show which parent component all components references.

Here the result:

{

"AttributA" : "AAA",

"AttributB" : "BBB",

"AttributC" : [ {

"AttributC\_ID" : 1,

"AttributE" : [ "EEE1", "EEE2" ]

}, {

"AttributC\_ID" : 2,

"AttributE" : [ "EEE1", "EEE2" ]

}, {

"AttributC\_ID" : 3,

"AttributE" : [ "EEE1", "EEE2" ]

}, {

"AttributC\_ID" : 4,

"AttributE" : [ "EEE1", "EEE2" ]

}, {

"AttributC\_ID" : 5,

"AttributE" : [ "EEE1", "EEE2" ]

} ],

"AttributD" : [ {

"id" : 6

}, {

"id" : 7

}, {

"id" : 8

}, {

"id" : 9

}, {

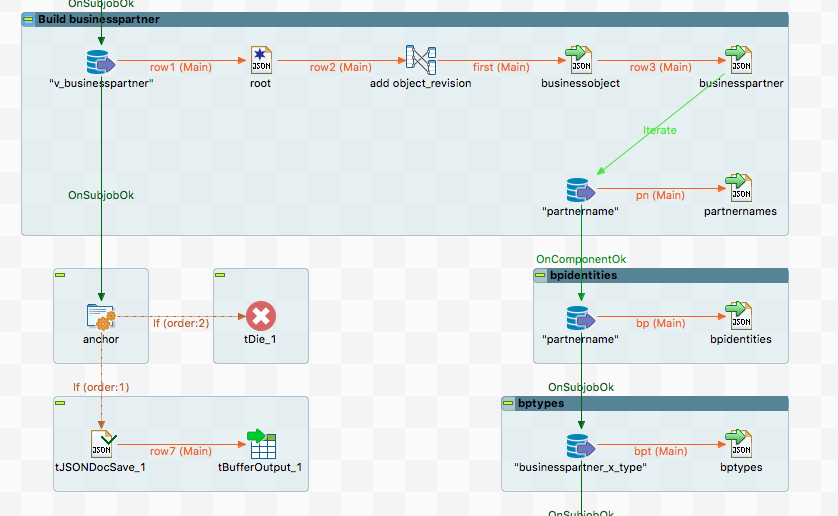
"id" : 10

} ]

}

## Scenario 3: A real live scenario to create a complex json document

This scenario creates a json document with multiple levels and als value arrays.



Per record from the database we create a json document and add in the first place the values from the first database input and continue per "businesspartner" with adding more objects like "partnernames".

At the end we write the content with the tJSONDocSave component (see next chapter) in tBufferOutput (we use this job within other jobs and tBufferOutput is a great way to provide content to the parent job.

## Scenario 4: Foreign key assignment of child objects to parent objects

In this scenario we use the foreign key assignment.

A picture containing screenshot

Description automatically generated

Here the basic settings:

This is the expected json document:

[ {

"key\_attr" : "a",

"value\_attr" : "x",

"children" : [ {

"foreignKey" : "a",

"child\_key\_attr" : "a1",

"child\_any\_attr" : "0",

"children2" : [ {

"key2" : "k1"

} ]

}, {

"foreignKey" : "a",

"child\_key\_attr" : "a2",

"child\_any\_attr" : "1",

"children2" : [ {

"key2" : "k2"

}, {

"key2" : "k3"

} ]

} ]

}, {

"key\_attr" : "b",

"value\_attr" : "y",

"children" : [ {

"foreignKey" : "b",

"child\_key\_attr" : "b1",

"child\_any\_attr" : "2",

"children2" : [ {

"key2" : "k4"

} ]

}, {

"foreignKey" : "b",

"child\_key\_attr" : "b2",

"child\_any\_attr" : "3",

"children2" : [ {

"key2" : "k5"

} ]

} ]

}, {

"key\_attr" : "c",

"value\_attr" : "z",

"children" : [ {

"foreignKey" : "c",

"child\_key\_attr" : "c1",

"child\_any\_attr" : "4"

} ]

} ]

The first tJSONDocOuput is used to build the root level objects:

A screenshot of a computer

Description automatically generated

The second tJSONDocOutput is dedicated to the “children” object:

A screenshot of a computer

Description automatically generated

The third tJSONDocOutput component build the last level “children2” objects:

A screenshot of a computer

Description automatically generated

# Component tJSONDocSave



This component is dedicated to providing the JSON document as pretty formatted string to any kind of output.

It is not mandatory to use this component because it would simple be fine to use the return value CURRENT\_NODE from tJSONDocOpen to have the content of the json document.

## Basic settings

|  |  |
| --- | --- |
| **Property** | **Content** |
| JSON Document root | Choose here thet JSONDocOpen component which current processing node should be used to render the document output. |
| Write content into a file | With this option and the file chooser setup the output file in which the conent will be written. The charset is UTF-8 and it uses UNIX style line breaks. |
| Output schema column | If there is an output flow, choose here the column in which the content has to set as value.  As column type String is needed. |
| Pretty Print | The string output will be formatted in a human readable way. Otherwise everything is in a condensed one-line String. |
| Ignore empty values | Empty values and arrays will be filtered out |
| Write content to standard out | Does what is says. This is actually I kind of debug option to see the content on the standard output of the job. |

## Return values

|  |  |
| --- | --- |
| **Return value** | **Content** |
| ERROR\_MESSAGE | If something went wrong, e.g. we cannot write into the file, the error message goes here. |
| OUTPUT\_FILE\_PATH | The path to the output file if set. This is useful if the path is calculated and you need that in the further processing. |
| JSON\_STRING | The String content of the json document. |

# Component tJSONDocInputStream



This component is dedicated to read very large JSON files and extract attributes with JSONPath expressions.

In the current state the capabilities of using JSONPath is limited:

Only the dot-notation is allowed

Search is not possible, only addressing of objects and arrays with the notation [\*] is possible.

## Basic settings

|  |  |
| --- | --- |
| **Property** | **Content** |
| JSON file path | Set here the file path of the input file |
| JSON Path to loop | Address the JSON structure you want to loop over. E.g. address the attribute (referencing an array). The syntax here is not fully JSON Path complient and currently very limited.  A path must start with $ and all attributes are separated with . (dot)  Arrays must be declared in the path with [\*] – currently there is not possibility to access one particular element of an array. |
| Attributes | **Columns:** Schema column  **JSON Path:** it the path starts without $ it will extend the loop path to address the attribute  **Use column:** switch off the column if you do not want to set this attribute |
| Schema | The schema editor. Configure here the schema for reading. |
| Die on error | Let the component die if something went wrong. |
| Reject schema | The schema of the reject flow. The reject flow will only be used if you switch off the Die on error option. |

## Advanced settings

|  |  |
| --- | --- |
| **Property** | **Content** |
| Provide JSON loop object | If you want to use the json object returned in every iteration of the loop for some other tJSONDocInput components, switch on this option. Because of the json object must be created and this could have performance impacts, this is an optional feature. |

## Return values

|  |  |
| --- | --- |
| **Return value** | **Content** |
| ERROR\_MESSAGE | If something went wrong - the error message goes here. |
| NB\_LINES | Number rows |
| NB\_LINES\_REJECTED | Number lines rejected |
| CURRENT\_NODE | This is the current JsonNode referenced by the loop path.  This JsonNode is only prsent if you have switched on the advanced option " Provide JSON loop object". To build such an object reduces the performance typically for about 2-5% - depending of the complexity of the loop element. |

## Scenario: Reading a json with nested arrays

This describes the reading of a small document to illustrate the parsing feature.

Expected Output:

.--------------+--------------+--------.

| tLogRow\_1 |

|=-------------+--------------+-------=|

|header |group\_header |item\_key|

|=-------------+--------------+-------=|

|global header1|group\_header11|111 |

|global header1|group\_header11|112 |

|global header1|group\_header11|113 |

|global header1|group\_header12|121 |

|global header1|group\_header12|122 |

|global header1|group\_header12|123 |

|global header2|group\_header21|211 |

|global header2|group\_header21|212 |

|global header2|group\_header21|213 |

|global header2|group\_header22|221 |

|global header2|group\_header22|222 |

|global header2|group\_header22|223 |

'--------------+--------------+--------'

This is the json input:

[

{

"header": "global header1",

"items": [

{

"group\_header": "group\_header11",

"item\_data": [

{"item-key": 111, "item-value" : {"a1" : "b1"}},

{"item-key": 112},

{"item-key": 113, "item-value" : {"a3" : "b3"}}

]

},

{

"group\_header": "group\_header12",

"item\_data": [

{"item-key": 121},

{"item-key": 122},

{"item-key": 123}

]

}

]

},

{

"header": "global header2",

"items": [

{

"group\_header": "group\_header21",

"item\_data": [

{"item-key": 211},

{"item-key": 212, "item-value" : {"a4" : "b4"}},

{"item-key": 213}

]

},

{

"group\_header": "group\_header22",

"item\_data": [

{"item-key": 221},

{"item-key": 222},

{"item-key": 223, "item-value" : {"a5" : "b5"}}

]

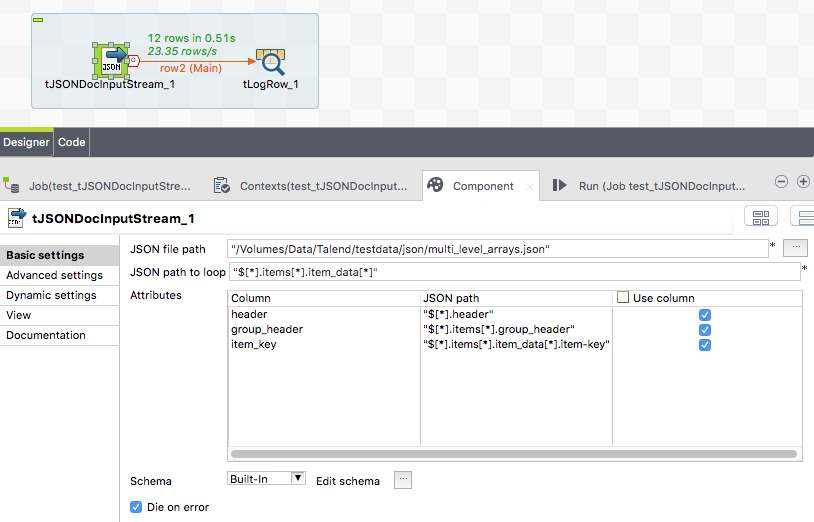
}

]

}

]

This is the job design to achive the results:



# Component tJSONDocValidationInput



In case of json schema validation takes place this component returns as flow all detected problems. This is helpful in case of you have to save or process them.

The component references to a tJSONDocOpen or tJSONDocSave components because currently only these both are performing schema validation.

## Basic settings

|  |  |
| --- | --- |
| **Property** | **Content** |
| Validating JSON document | Set here the file path of the input file |