JSON in Salesforce flows

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[JSON Generator 1](#_Toc184447864)

[Updating JSON 2](#_Toc184447865)

[JSON Consumer 3](#_Toc184447866)

[Challenges 3](#_Toc184447867)

## JSON Generator

Use this tool if you need to generate JSON file using the flow, typically when you build the integration. Within the flow just provide the SOQL and recordId.

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**Id:** {!$Record.Id}

**Soql**: Select Id, Actual\_Global\_Customer\_Id\_\_c, Name, UAR\_\_c, OwnerId, Owner.FirstName, Owner.LastName, Account\_Status\_\_c, Active\_Products\_\_c, LastModifiedDate from Account Where Id = :recordId

The result:

A close up of a text

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Btw, do not try the same in formula, it will not work for multiline lines, here is why:

<https://ideas.salesforce.com/s/idea/a0B8W00000GdiYkUAJ/ability-to-remove-line-breaks-in-formula-fields>

### Updating JSON

Do you need change JSON file generated by SOQL?

No problem! Use the other component provided by this tool, the updateJSON.

UpdateJSON provides three operations:

* get: returns value for provided key.
* put: inserts new key/updates existing key with provided values.
* delete: shown on the picture below. Removes from JSON provided key.

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## JSON Consumer

### Challenges

* Salesforce has no libraries to extract data from JSON using XPATH syntax. Own such library JsonXPath was created.
* Salesforce flow does not provide efficient way to process JSON arrays. This logic has been implemented in apex. Everything else has been implemented in flows, in a declarative way.

Do you need to consume JSON file?

To read single element from JSON field use **JsonXPath.**

This way you can also read arrays (elements will be concatenated)

|  |  |
| --- | --- |
| {  "Id" : "12345",  "GlobalCustomerId": "82600224807",  "lineItems": [  {  "itemCode": "36DPA",  "quantity": "1"  },  {  "itemCode": "24UK",  "quantity": "1"  },  {  "itemCode": "38EMCD",  "quantity": "1"  }]  } |  |

The get array as collection use **JsonXPathList**

In order to read JSON arrays, you will probably need apex, here is an example code. Use apex as a last resort minimum, any preconditions and post updates implement outside apex:

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