JSON in Salesforce flows

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## 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.

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**

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

A computer screen shot of a program

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You can also read nested arrays (array in array), here is how:

Json file (array usage in array OpportunityLineItems):

|  |
| --- |
| {  "Id": "006TA00000DhunbYAB",  "Region": "EMEIA",  "SFDC\_AccountId": "001TA000015WPBGYA4",  "GlobalCustomerId": "82600227099",  "E\_Number": "E7886639",  "Account\_18\_digit\_ID\_\_c": "001TA000015WPBGYA4",  "OpportunityLineItems": {  "totalSize": 2,  "records": [  {  "OpportunityId": "006TA00000DhunbYAB",  "Name": "Annual Subscription1",  "ProductCode": "90ANNSUB",  "Id": "00kTA000005YsntYAC",  "OriginalUsage": 40000,  "RemainingUsage": 1000.75,  "Usages": [  {  "DateConsumed": "2025-03-14",  "TotalUsageConsumed": "1000.25"  }  ,{  "DateConsumed": "2025-03-15",  "TotalUsageConsumed": "2000.25"  }  ]  },  {  "OpportunityId": "006TA00000DhunbYAB",  "Name": "Annual Subscription2",  "ProductCode": "90ANNSUB",  "Id": "00kTA000005YsntYAC",  "OriginalUsage": 40000,  "RemainingUsage": 2000.75,  "Usages": [  {  "DateConsumed": "2025-03-14",  "TotalUsageConsumed": "3000.25"  }  ,{  "DateConsumed": "2025-03-15",  "TotalUsageConsumed": "4000.25"  }  ]  }  ]  }  } |

